



Full wwPDB EM Validation Report ⓘ

Mar 23, 2026 – 07:54 PM UTC

PDB ID : 4CTF / pdb_00004ctf
EMDB ID : EMD-2389
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

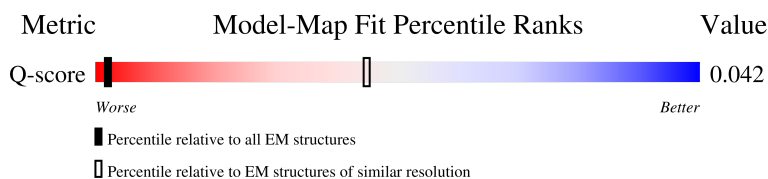
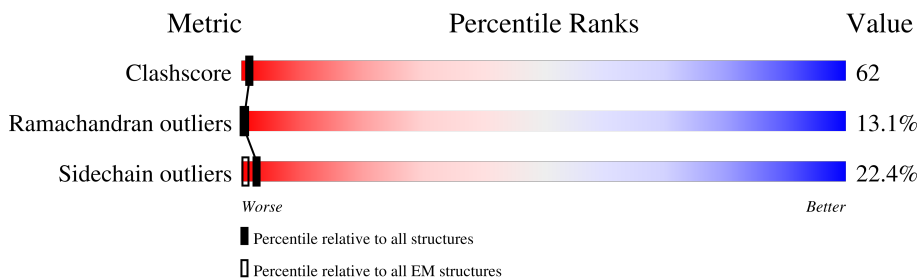
1 Overall quality at a glance i

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	13% 20% 52% 24% .
1	A1	246	10% 21% 51% 23% 5%
1	A2	246	11% 20% 52% 24% 5%
1	A3	246	11% 21% 51% 23% 5%

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Mol	Chain	Length	Quality of chain
1	A4	246	11% 20% 53% 23% 5%
1	A5	246	13% 20% 51% 23% 6%
1	A6	246	12% 20% 52% 24% •
1	A7	246	11% 20% 52% 23% 5%
1	A8	246	11% 20% 52% 23% 5%
1	A9	246	13% 20% 52% 23% •
1	AA	246	13% 20% 52% 23% 5%
1	AB	246	13% 20% 52% 23% 5%
1	AC	246	12% 20% 52% 23% 5%
1	AD	246	12% 20% 52% 23% •
1	AE	246	13% 20% 52% 22% 5%
1	AF	246	13% 20% 52% 24% 5%
1	AG	246	11% 19% 53% 23% 5%
1	AH	246	12% 21% 51% 23% 5%
1	AI	246	11% 20% 52% 23% 5%
1	AJ	246	12% 20% 52% 24% •
1	AK	246	10% 20% 52% 23% 5%
1	AL	246	10% 20% 52% 24% •
1	AM	246	11% 20% 52% 23% 5%
1	AN	246	13% 19% 53% 23% 5%
1	AO	246	12% 20% 51% 24% •
1	AP	246	10% 20% 52% 23% •
1	AQ	246	10% 20% 52% 24% 5%
1	AR	246	11% 20% 52% 23% 5%
1	AS	246	12% 20% 52% 24% 5%

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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	BA	246	
1	BB	246	
1	BC	246	

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Mol	Chain	Length	Quality of chain
1	BD	246	
1	BE	246	
1	BF	246	
1	BG	246	
1	BH	246	
1	BI	246	
2	C0	230	
2	C1	230	
2	C2	230	
2	C3	230	
2	C4	230	
2	C5	230	
2	C6	230	
2	C7	230	
2	C8	230	
2	C9	230	
2	CA	230	
2	CB	230	
2	CC	230	
2	CD	230	
2	CE	230	
2	CF	230	
2	CG	230	
2	CH	230	
2	CI	230	

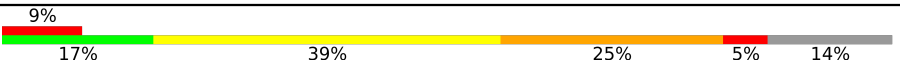
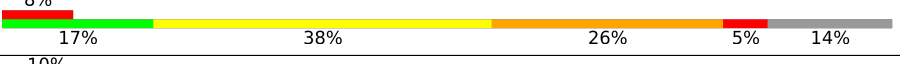
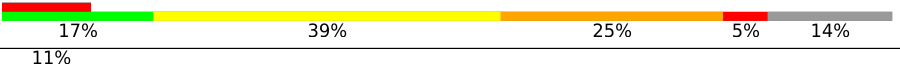
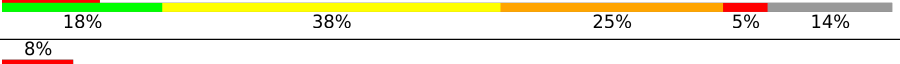
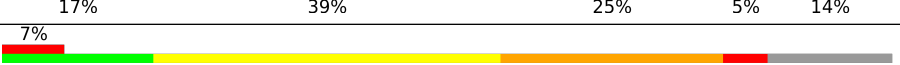
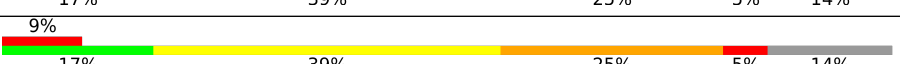
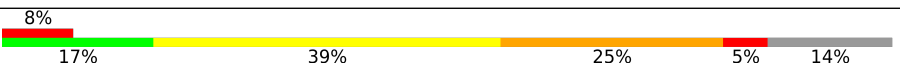
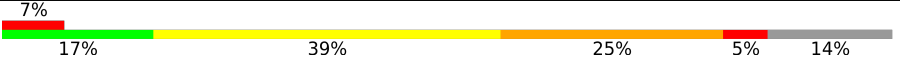
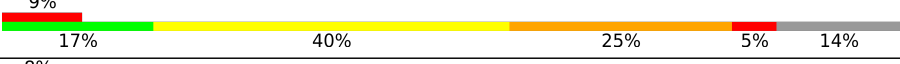
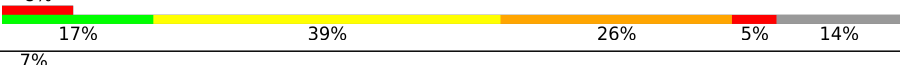
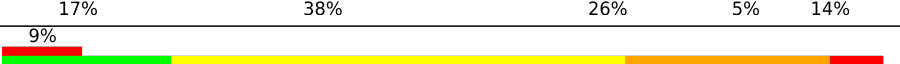
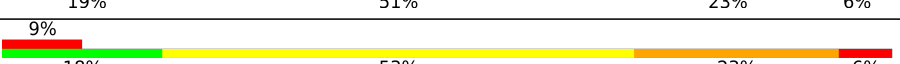
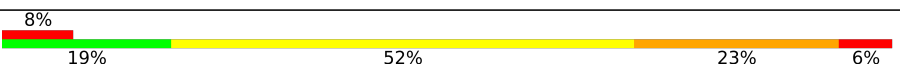
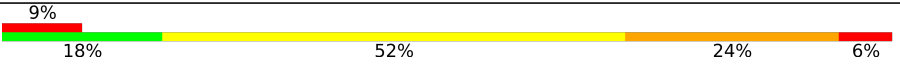
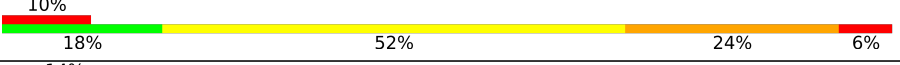
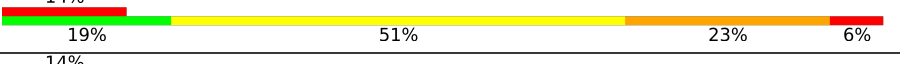
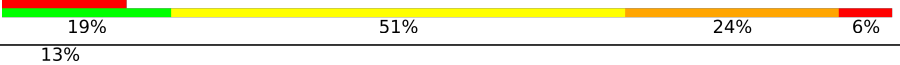
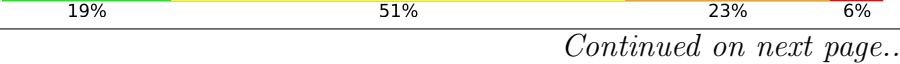
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Mol	Chain	Length	Quality of chain
2	CJ	230	
2	CK	230	
2	CL	230	
2	CM	230	
2	CN	230	
2	CO	230	
2	CP	230	
2	CQ	230	
2	CR	230	
2	CS	230	
2	CT	230	
2	CU	230	
2	CV	230	
2	CW	230	
2	CX	230	
2	CY	230	
2	CZ	230	
2	Ca	230	
2	Cb	230	
2	Cc	230	
2	Cd	230	
2	Ce	230	
2	Cf	230	
2	Cg	230	
2	Ch	230	

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Mol	Chain	Length	Quality of chain
2	Ci	230	
2	Cj	230	
2	Ck	230	
2	Cl	230	
2	Cm	230	
2	Cn	230	
2	Co	230	
2	Cp	230	
2	Cq	230	
2	Cr	230	
2	Cs	230	
2	Ct	230	
2	Cu	230	
2	Cv	230	
2	Cw	230	
2	Cx	230	
3	D0	226	
3	D1	226	
3	D2	226	
3	D3	226	
3	D4	226	
3	D5	226	
3	D6	226	
3	D7	226	
3	D8	226	

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Mol	Chain	Length	Quality of chain
3	D9	226	9% 19% 51% 23% 6%
3	DA	226	15% 19% 52% 23% 6%
3	DB	226	12% 19% 52% 23% 6%
3	DC	226	12% 18% 53% 23% 6%
3	DD	226	14% 19% 51% 23% 6%
3	DE	226	15% 19% 52% 23% 6%
3	DF	226	15% 19% 51% 24% 6%
3	DG	226	11% 19% 50% 24% 6%
3	DH	226	12% 18% 52% 23% 6%
3	DI	226	12% 19% 51% 24% 6%
3	DJ	226	15% 18% 52% 23% 6%
3	DK	226	11% 19% 52% 23% 6%
3	DL	226	8% 19% 51% 23% 6%
3	DM	226	8% 19% 51% 24% 6%
3	DN	226	9% 19% 52% 23% 6%
3	DO	226	10% 19% 51% 24% 6%
3	DP	226	10% 19% 52% 23% 6%
3	DQ	226	10% 19% 52% 23% 6%
3	DR	226	9% 18% 52% 24% 6%
3	DS	226	9% 19% 52% 23% 6%
3	DT	226	10% 19% 52% 23% 6%
3	DU	226	10% 18% 52% 24% 6%
3	DV	226	14% 19% 52% 23% 6%
3	DW	226	15% 18% 52% 24% 6%
3	DX	226	10% 19% 51% 24% 6%

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Mol	Chain	Length	Quality of chain
3	DY	226	
3	DZ	226	
3	Da	226	
3	Db	226	
3	Dc	226	
3	Dd	226	
3	De	226	
3	Df	226	
3	Dg	226	
3	Dh	226	
3	Di	226	
3	Dj	226	
3	Dk	226	
3	Dl	226	
3	Dm	226	
3	Dn	226	
3	Do	226	
3	Dp	226	
3	Dq	226	
3	Dr	226	
3	Ds	226	
3	EA	226	
3	EB	226	
3	EC	226	
3	ED	226	

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Mol	Chain	Length	Quality of chain
3	EE	226	
4	F0	80	
4	F1	80	
4	F2	80	
4	F3	80	
4	F4	80	
4	F5	80	
4	F6	80	
4	F7	80	
4	F8	80	
4	F9	80	
4	FA	80	
4	FB	80	
4	FC	80	
4	FD	80	
4	FE	80	
4	FF	80	
4	FG	80	
4	FH	80	
4	FI	80	
4	FJ	80	
4	FK	80	
4	FL	80	
4	FM	80	
4	FN	80	

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Mol	Chain	Length	Quality of chain
4	FO	80	
4	FP	80	
4	FQ	80	
4	FR	80	
4	FS	80	
4	FT	80	
4	FU	80	
4	FV	80	
4	FW	80	
4	FX	80	
4	FY	80	
4	FZ	80	
4	Fa	80	
4	Fb	80	
4	Fc	80	
4	Fd	80	
4	Fe	80	
4	Ff	80	
4	Fg	80	
4	Fh	80	
4	Fi	80	
4	Fj	80	
4	Fk	80	
4	Fl	80	
4	Fm	80	

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Mol	Chain	Length	Quality of chain
4	Fn	80	24% 6% 15% . . 72%
4	Fo	80	22% 6% 14% 5% . 72%
4	Fp	80	22% 6% 15% . . 72%
4	Fq	80	24% 6% 11% 8% . 72%
4	Fr	80	24% 6% 11% 8% . 72%
4	Fs	80	22% 6% 14% 5% . 72%
4	Ft	80	24% 6% 11% 8% . 72%
4	Fu	80	24% 6% 11% 8% . 72%
4	Fv	80	24% 6% 11% 8% . 72%
4	Fw	80	22% 6% 11% 8% . 72%
4	Fx	80	24% 6% 10% 9% . 72%



2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 321060 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 VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A0	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	A1	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	A2	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	A3	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	A4	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	A5	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	A6	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	A7	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	A8	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	A9	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	AA	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	AB	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	AC	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	AD	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	AE	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	AF	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		
1	AG	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AH	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AI	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AJ	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AK	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AL	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AM	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AN	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AO	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AP	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AQ	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AR	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AS	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AT	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AU	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AV	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AW	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AX	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AY	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	AZ	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Aa	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Ab	246	Total 1929	C 1240	N 329	O 352	S 8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ac	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Ad	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Ae	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Af	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Ag	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Ah	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Ai	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Aj	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Ak	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Al	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Am	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	An	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	Ao	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	BA	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	BB	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	BC	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	BD	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	BE	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	BF	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	BG	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	BH	246	Total 1929	C 1240	N 329	O 352	S 8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	BI	246	Total	C	N	O	S	0	0
			1929	1240	329	352	8		

- Molecule 2 is a protein called EQUINE RHINITIS A VIRUS.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C0	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	C1	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	C2	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	C3	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	C4	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	C5	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	C6	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	C7	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	C8	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	C9	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	CA	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	CB	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	CC	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	CD	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	CE	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	CF	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	CG	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		
2	CH	198	Total	C	N	O	S	0	0
			1537	986	261	286	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	CI	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CJ	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CK	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CL	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CM	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CN	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CO	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CP	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CQ	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CR	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CS	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CT	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CU	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CV	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CW	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CX	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CY	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	CZ	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Ca	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cb	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cc	198	Total 1537	C 986	N 261	O 286	S 4	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Cd	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Ce	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cf	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cg	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Ch	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Ci	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cj	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Ck	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cl	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cm	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cn	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Co	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cp	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cq	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cr	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cs	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Ct	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cu	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cv	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cw	198	Total 1537	C 986	N 261	O 286	S 4	0	0
2	Cx	198	Total 1537	C 986	N 261	O 286	S 4	0	0

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C0	85	SER	GLY	conflict	UNP Q91B42
C1	85	SER	GLY	conflict	UNP Q91B42
C2	85	SER	GLY	conflict	UNP Q91B42
C3	85	SER	GLY	conflict	UNP Q91B42
C4	85	SER	GLY	conflict	UNP Q91B42
C5	85	SER	GLY	conflict	UNP Q91B42
C6	85	SER	GLY	conflict	UNP Q91B42
C7	85	SER	GLY	conflict	UNP Q91B42
C8	85	SER	GLY	conflict	UNP Q91B42
C9	85	SER	GLY	conflict	UNP Q91B42
CA	85	SER	GLY	conflict	UNP Q91B42
CB	85	SER	GLY	conflict	UNP Q91B42
CC	85	SER	GLY	conflict	UNP Q91B42
CD	85	SER	GLY	conflict	UNP Q91B42
CE	85	SER	GLY	conflict	UNP Q91B42
CF	85	SER	GLY	conflict	UNP Q91B42
CG	85	SER	GLY	conflict	UNP Q91B42
CH	85	SER	GLY	conflict	UNP Q91B42
CI	85	SER	GLY	conflict	UNP Q91B42
CJ	85	SER	GLY	conflict	UNP Q91B42
CK	85	SER	GLY	conflict	UNP Q91B42
CL	85	SER	GLY	conflict	UNP Q91B42
CM	85	SER	GLY	conflict	UNP Q91B42
CN	85	SER	GLY	conflict	UNP Q91B42
CO	85	SER	GLY	conflict	UNP Q91B42
CP	85	SER	GLY	conflict	UNP Q91B42
CQ	85	SER	GLY	conflict	UNP Q91B42
CR	85	SER	GLY	conflict	UNP Q91B42
CS	85	SER	GLY	conflict	UNP Q91B42
CT	85	SER	GLY	conflict	UNP Q91B42
CU	85	SER	GLY	conflict	UNP Q91B42
CV	85	SER	GLY	conflict	UNP Q91B42
CW	85	SER	GLY	conflict	UNP Q91B42
CX	85	SER	GLY	conflict	UNP Q91B42
CY	85	SER	GLY	conflict	UNP Q91B42
CZ	85	SER	GLY	conflict	UNP Q91B42
Ca	85	SER	GLY	conflict	UNP Q91B42
Cb	85	SER	GLY	conflict	UNP Q91B42
Cc	85	SER	GLY	conflict	UNP Q91B42
Cd	85	SER	GLY	conflict	UNP Q91B42
Ce	85	SER	GLY	conflict	UNP Q91B42
Cf	85	SER	GLY	conflict	UNP Q91B42

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Chain	Residue	Modelled	Actual	Comment	Reference
Cg	85	SER	GLY	conflict	UNP Q91B42
Ch	85	SER	GLY	conflict	UNP Q91B42
Ci	85	SER	GLY	conflict	UNP Q91B42
Cj	85	SER	GLY	conflict	UNP Q91B42
Ck	85	SER	GLY	conflict	UNP Q91B42
Cl	85	SER	GLY	conflict	UNP Q91B42
Cm	85	SER	GLY	conflict	UNP Q91B42
Cn	85	SER	GLY	conflict	UNP Q91B42
Co	85	SER	GLY	conflict	UNP Q91B42
Cp	85	SER	GLY	conflict	UNP Q91B42
Cq	85	SER	GLY	conflict	UNP Q91B42
Cr	85	SER	GLY	conflict	UNP Q91B42
Cs	85	SER	GLY	conflict	UNP Q91B42
Ct	85	SER	GLY	conflict	UNP Q91B42
Cu	85	SER	GLY	conflict	UNP Q91B42
Cv	85	SER	GLY	conflict	UNP Q91B42
Cw	85	SER	GLY	conflict	UNP Q91B42
Cx	85	SER	GLY	conflict	UNP Q91B42

- Molecule 3 is a protein called P1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	D0	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	D1	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	D2	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	D3	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	D4	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	D5	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	D6	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	D7	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	D8	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	D9	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	DA	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DB	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DC	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DD	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DE	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DF	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DG	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DH	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DI	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DJ	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DK	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DL	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DM	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DN	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DO	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DP	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DQ	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DR	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DS	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DT	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DU	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	DV	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DW	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DX	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DY	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	DZ	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Da	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Db	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dc	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dd	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	De	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Df	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dg	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dh	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Di	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dj	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dk	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dl	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dm	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dn	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Do	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dp	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Dq	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Dr	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	Ds	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	EA	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	EB	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	EC	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	ED	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		
3	EE	226	Total	C	N	O	S	0	0
			1719	1107	280	326	6		

- Molecule 4 is a protein called P1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	F0	22	Total	C	N	O	S	0	1
			166	101	29	35	1		
4	F1	22	Total	C	N	O	S	0	1
			166	101	29	35	1		
4	F2	22	Total	C	N	O	S	0	1
			166	101	29	35	1		
4	F3	22	Total	C	N	O	S	0	1
			166	101	29	35	1		
4	F4	22	Total	C	N	O	S	0	1
			166	101	29	35	1		
4	F5	22	Total	C	N	O	S	0	1
			166	101	29	35	1		
4	F6	22	Total	C	N	O	S	0	1
			166	101	29	35	1		
4	F7	22	Total	C	N	O	S	0	1
			166	101	29	35	1		
4	F8	22	Total	C	N	O	S	0	1
			166	101	29	35	1		
4	F9	22	Total	C	N	O	S	0	1
			166	101	29	35	1		
4	FA	22	Total	C	N	O	S	0	1
			166	101	29	35	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	FB	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FC	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FD	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FE	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FF	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FG	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FH	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FI	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FJ	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FK	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FL	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FM	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FN	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FO	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FP	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FQ	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FR	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FS	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FT	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FU	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FV	22	Total 166	C 101	N 29	O 35	S 1	0	1

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	FW	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FX	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FY	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	FZ	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fa	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fb	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fc	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fd	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fe	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Ff	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fg	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fh	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fi	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fj	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fk	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fl	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fm	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fn	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fo	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fp	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fq	22	Total 166	C 101	N 29	O 35	S 1	0	1

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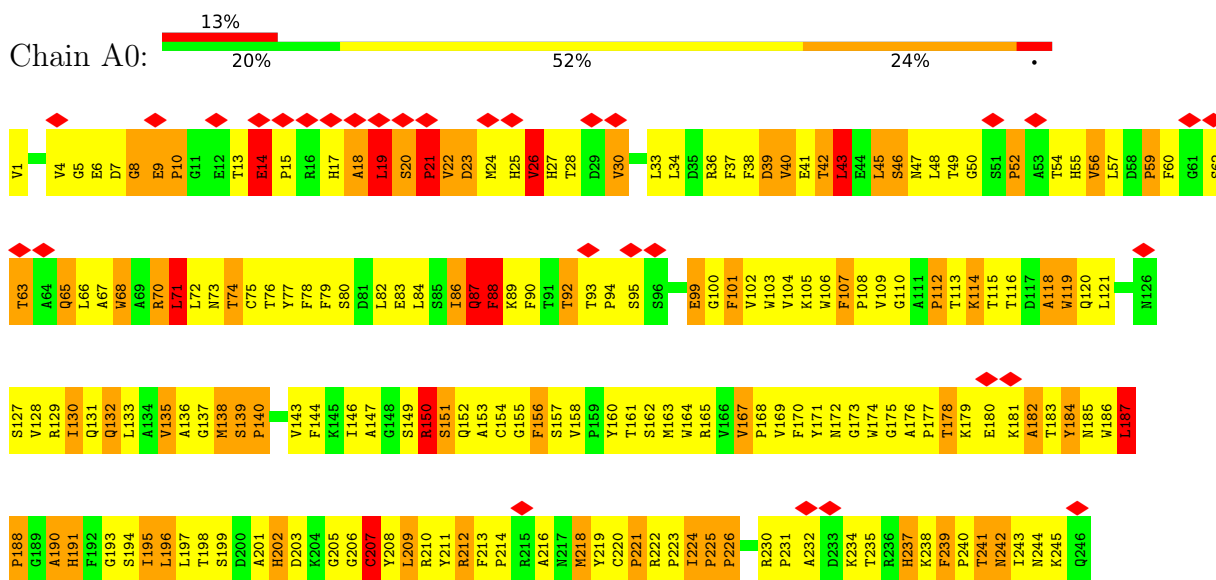
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Mol	Chain	Residues	Atoms					AltConf	Trace
4	Fr	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fs	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Ft	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fu	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fv	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fw	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fx	22	Total 166	C 101	N 29	O 35	S 1	0	1

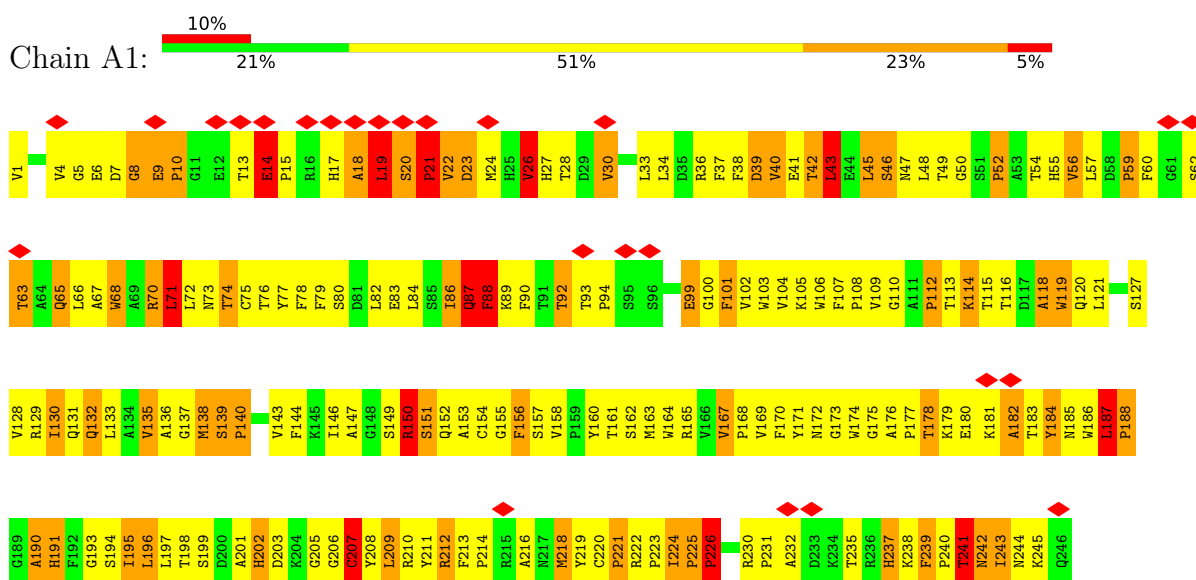
3 Residue-property plots

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.

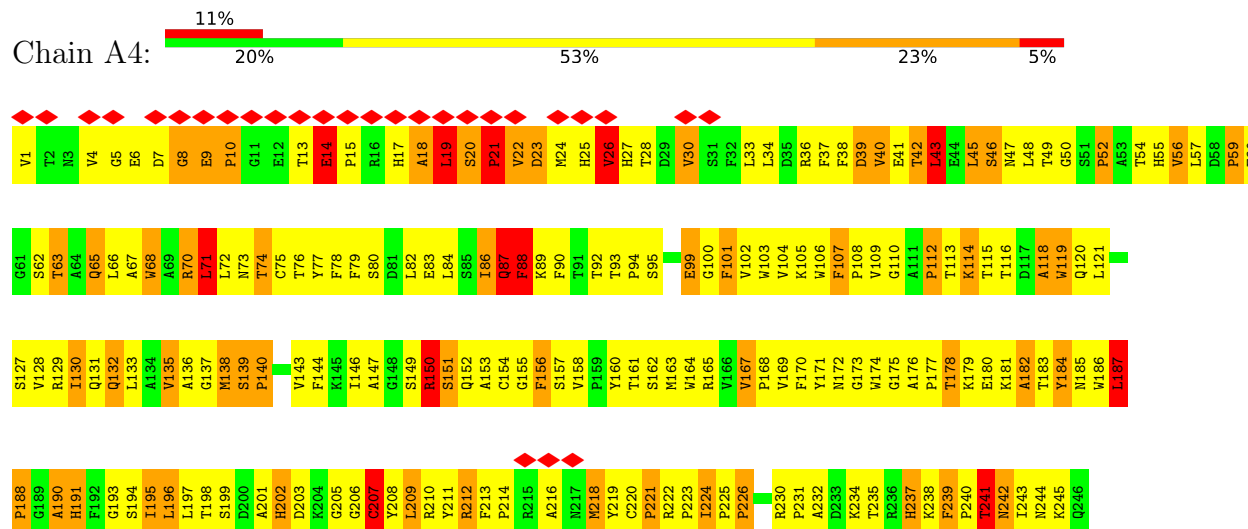
• Molecule 1: VP1



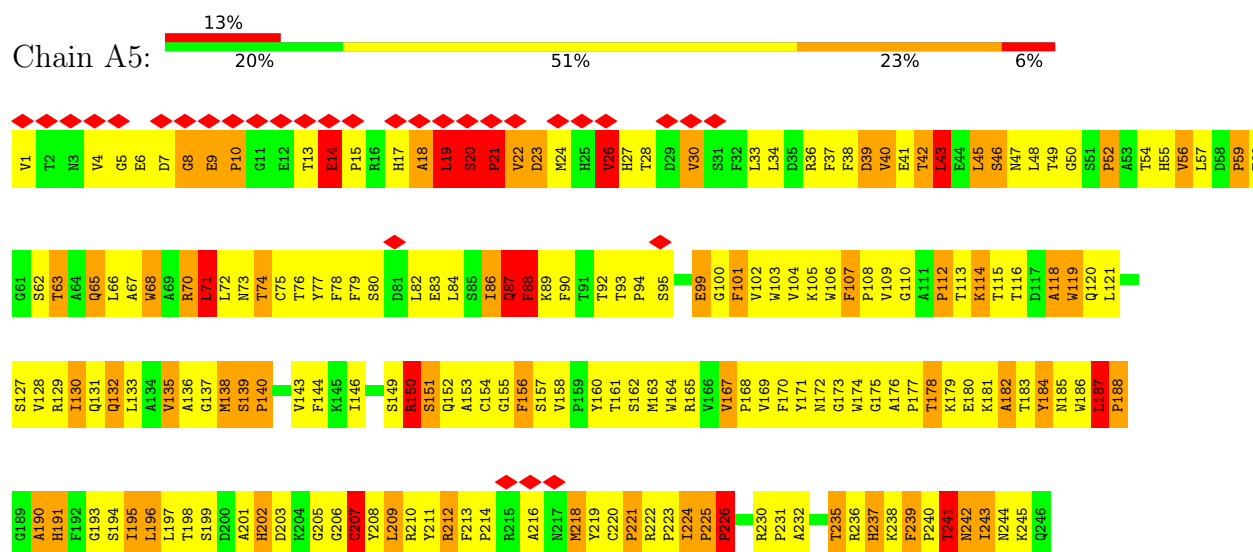
• Molecule 1: VP1



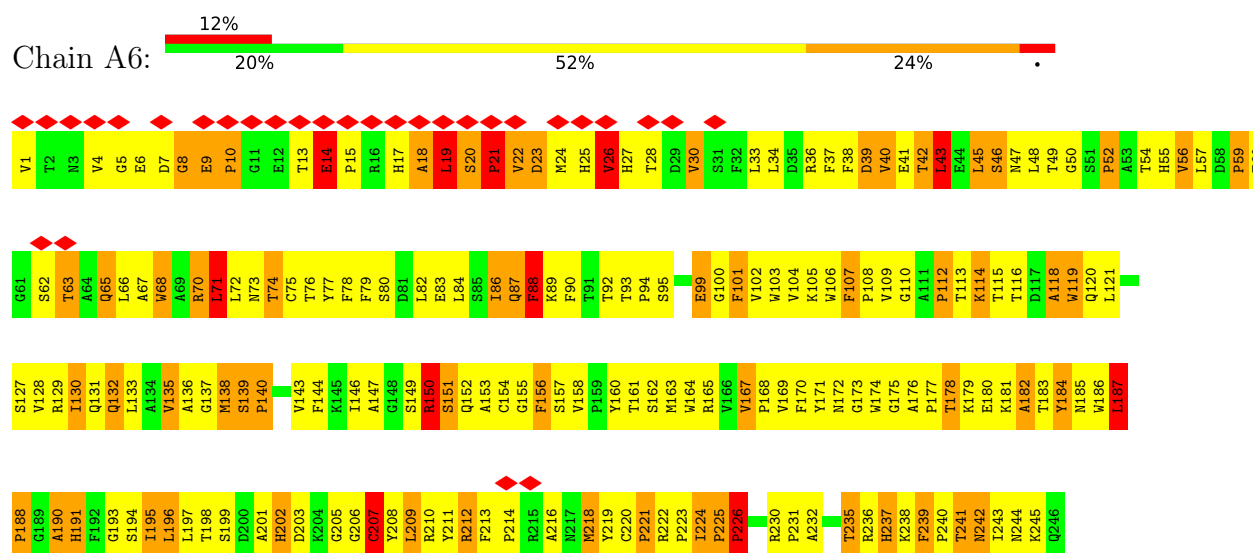
• Molecule 1: VP1



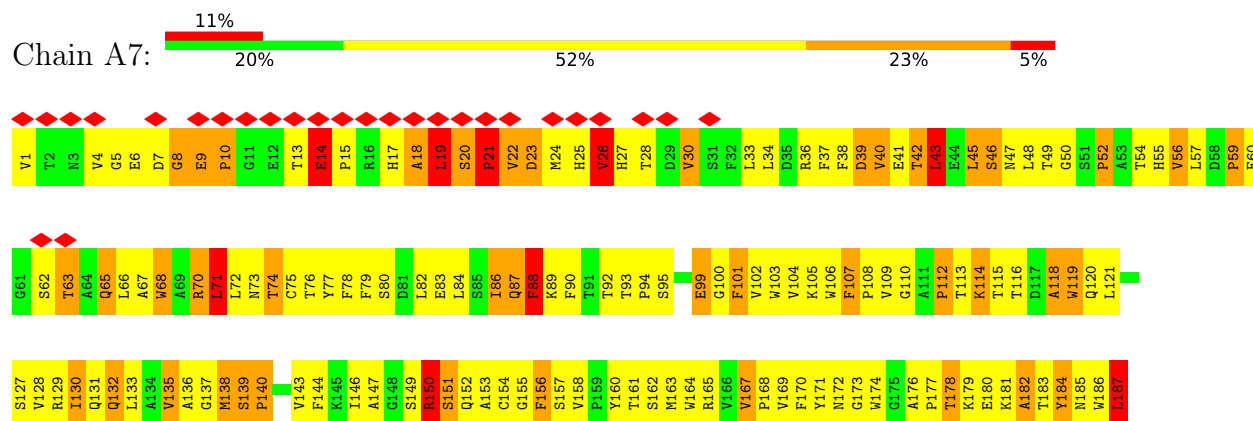
● Molecule 1: VP1



● Molecule 1: VP1

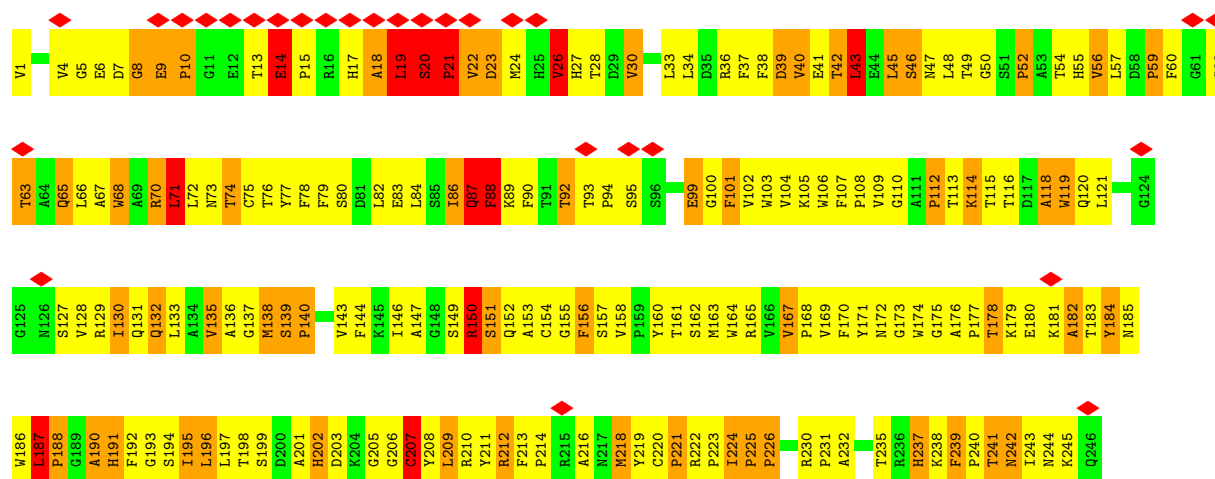
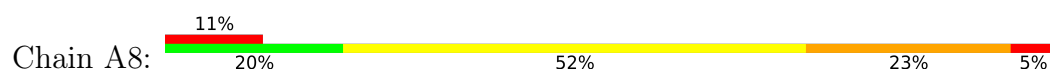


● Molecule 1: VP1

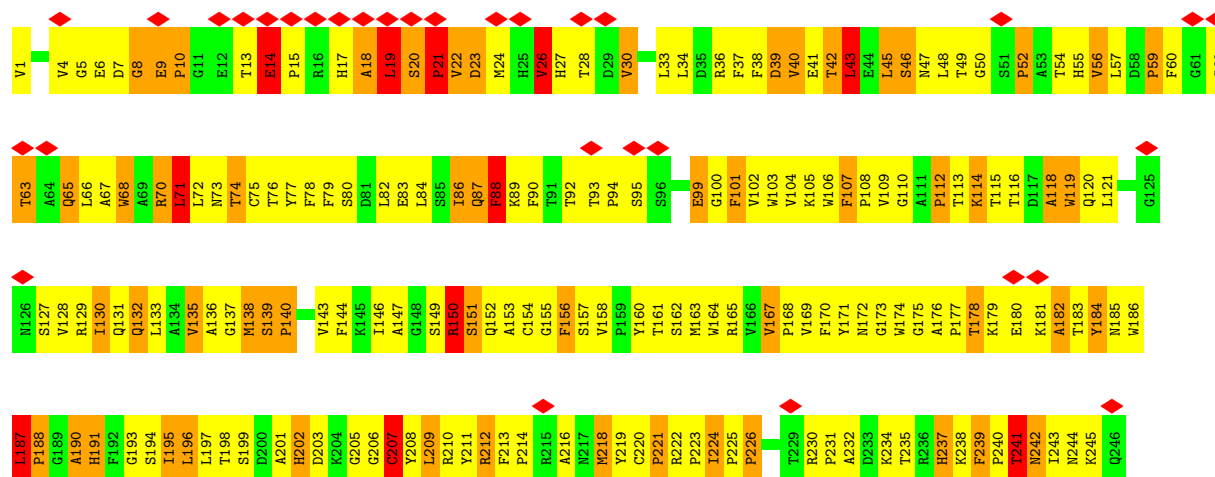
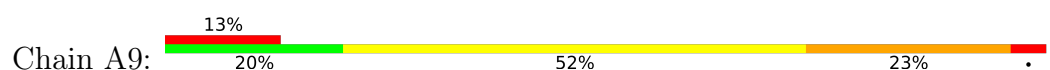




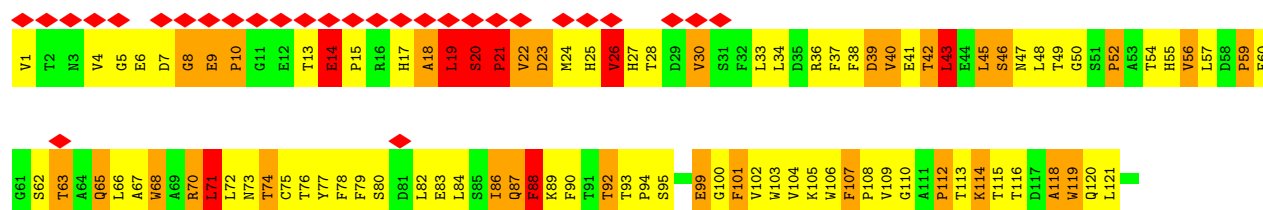
- Molecule 1: VP1

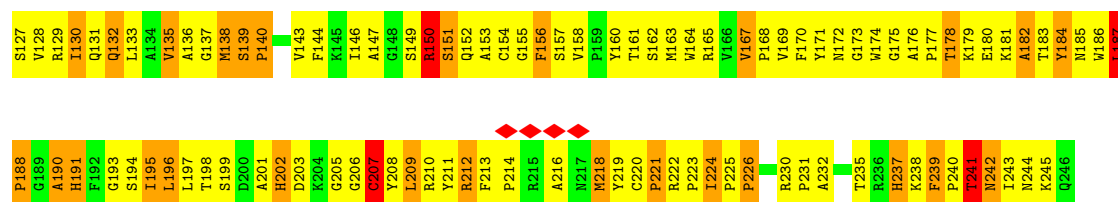


- Molecule 1: VP1

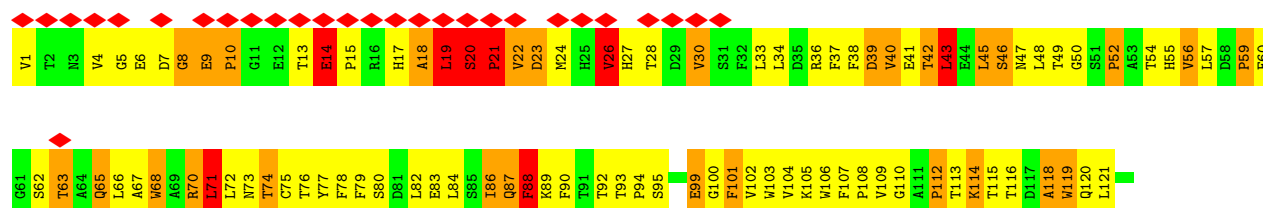


- Molecule 1: VP1

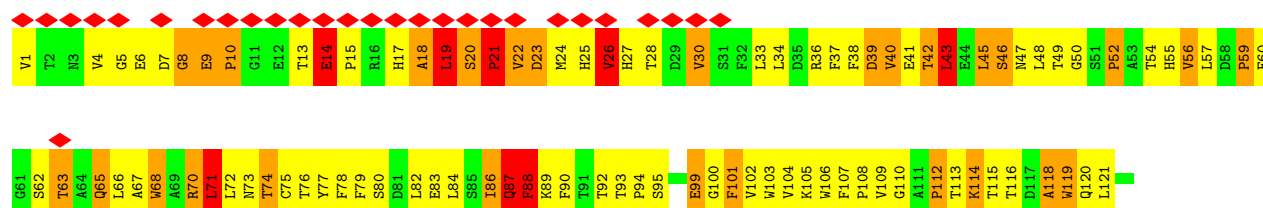




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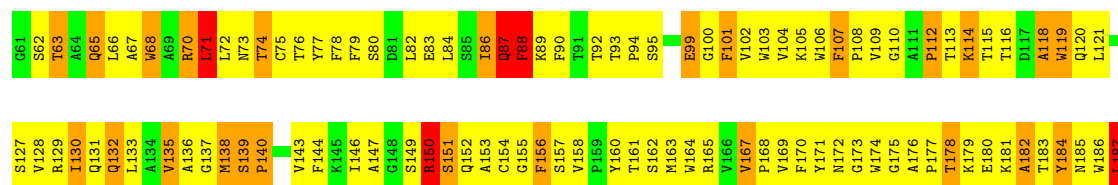


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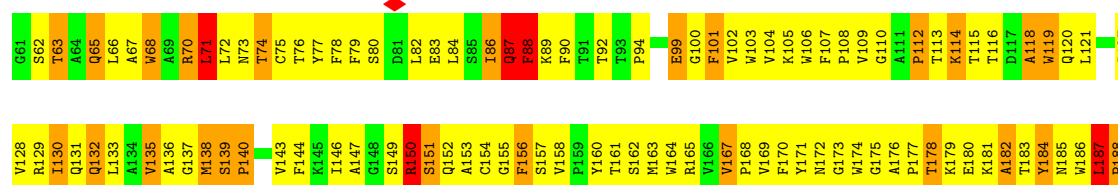


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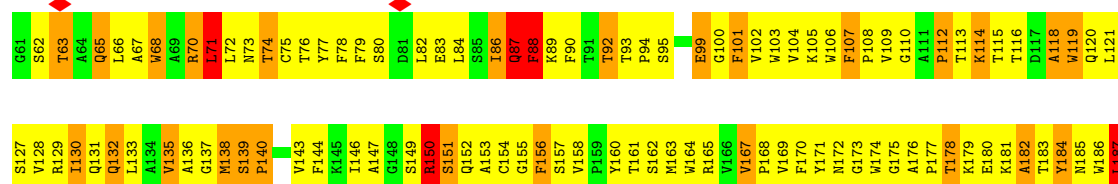
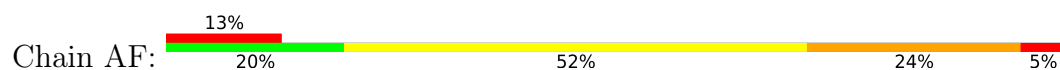




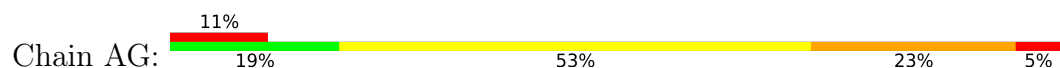
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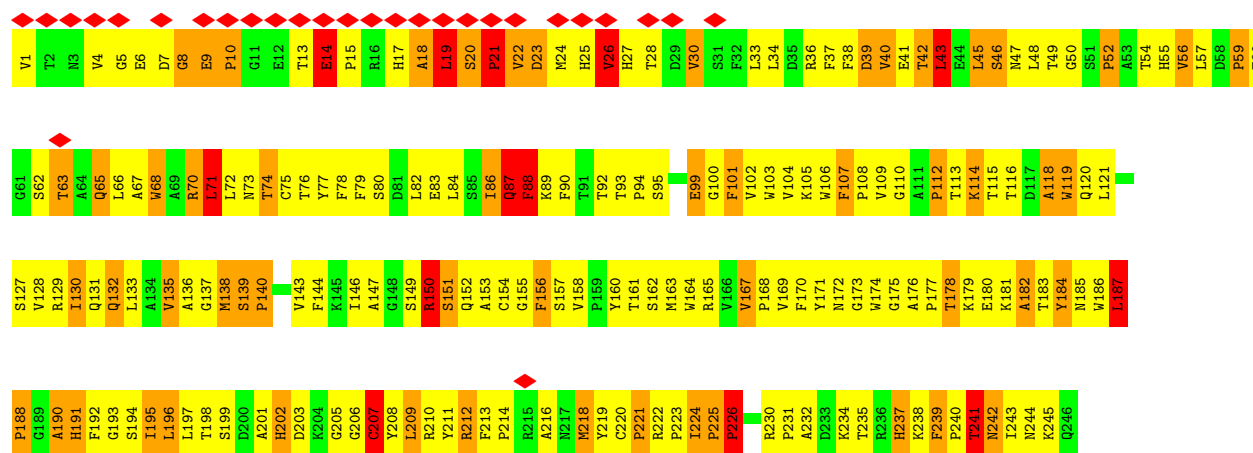


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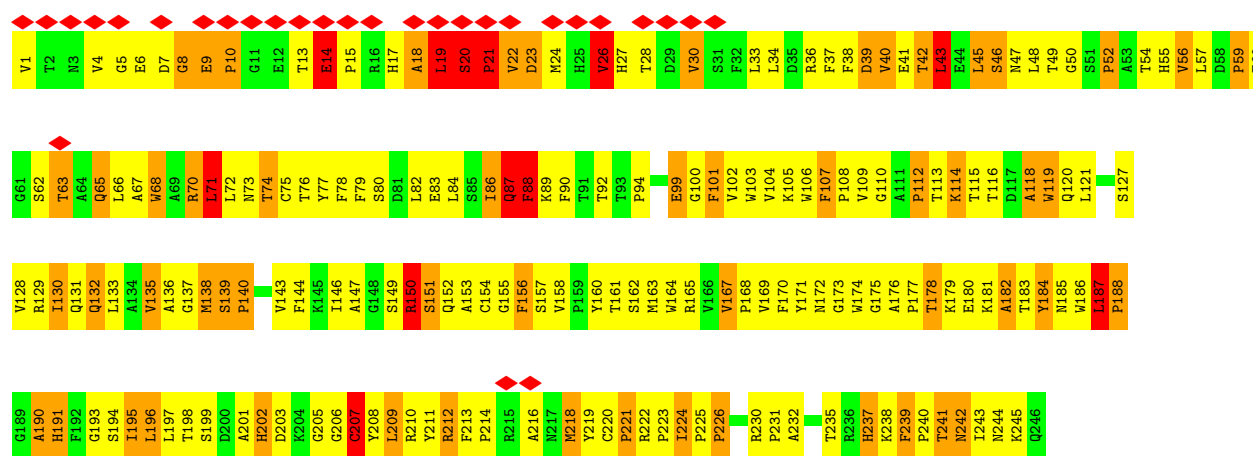


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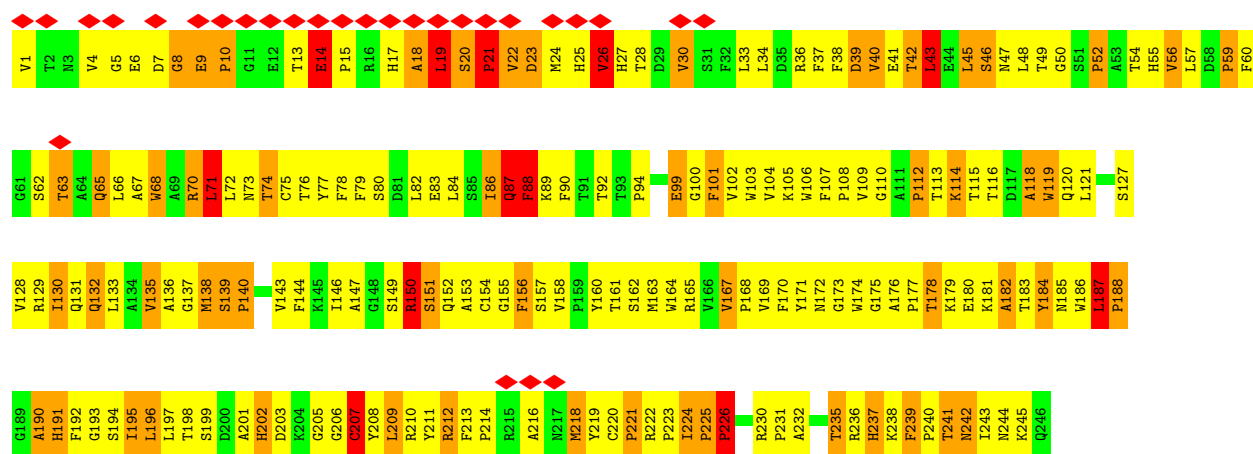
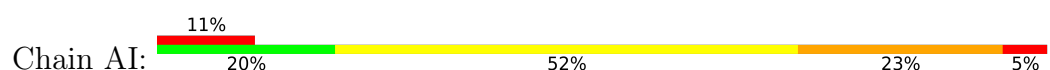




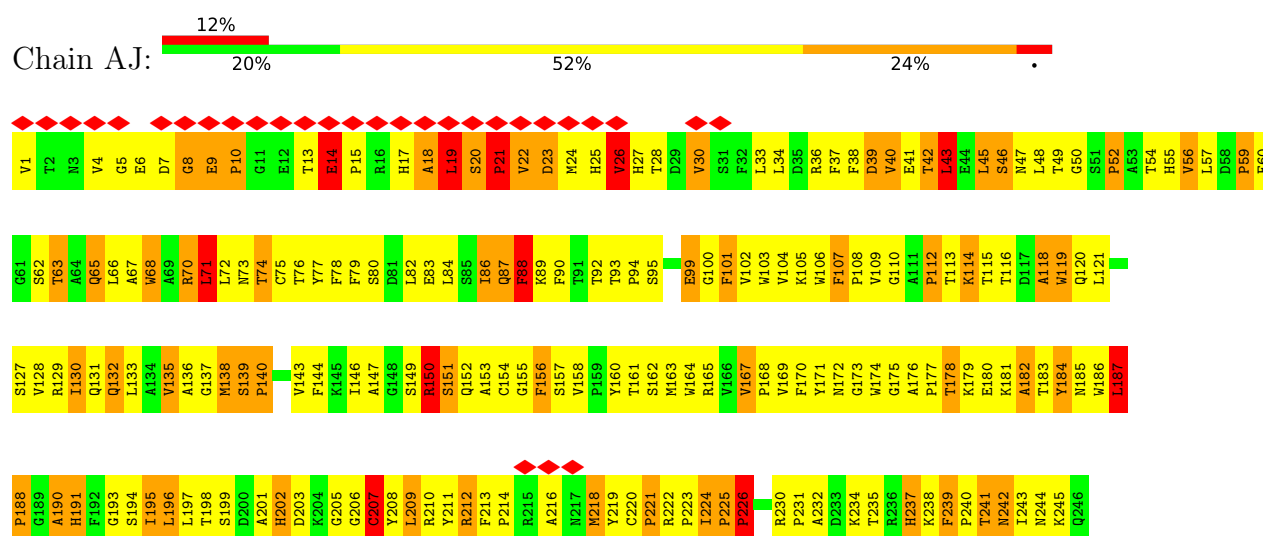
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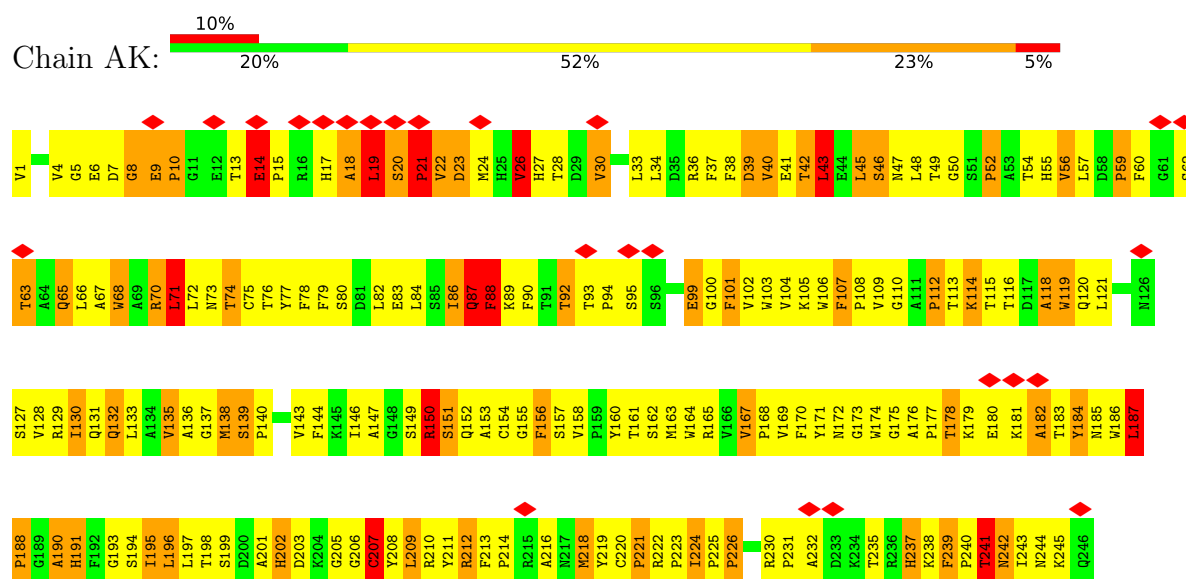
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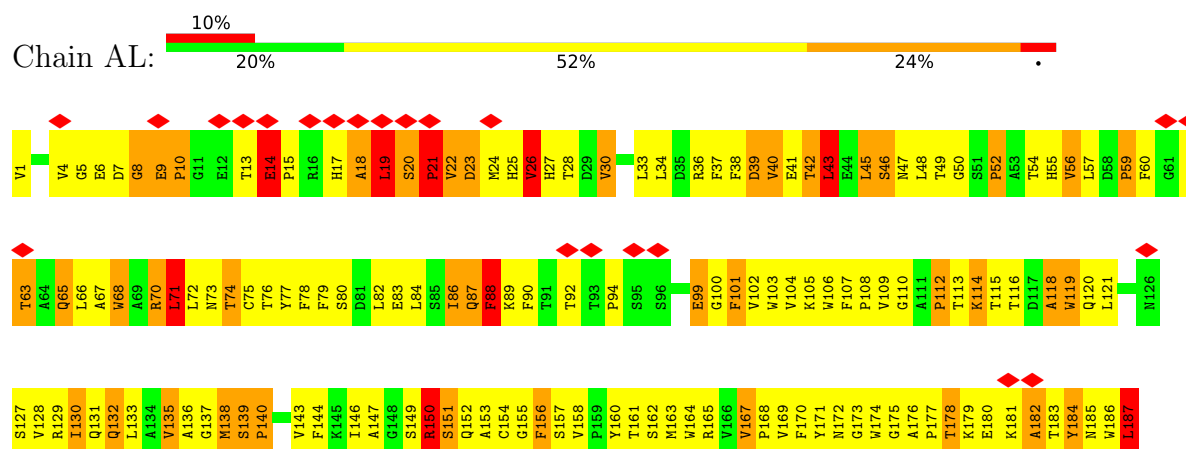
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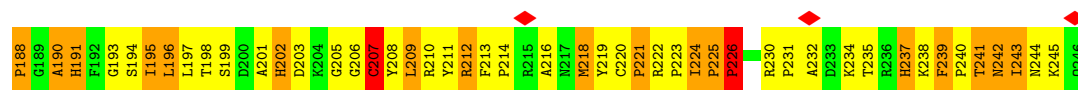


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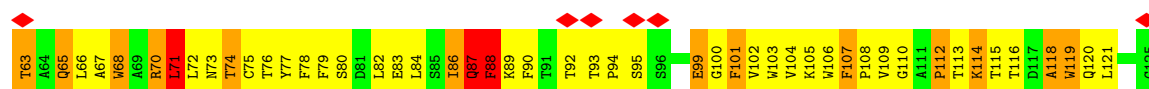
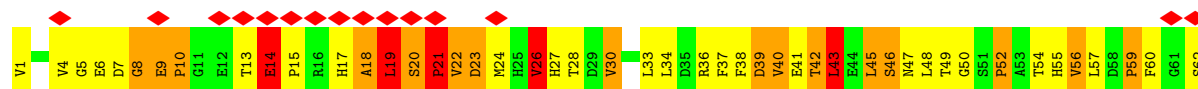


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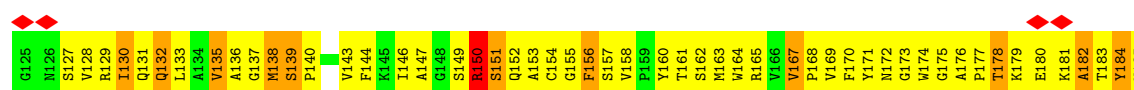
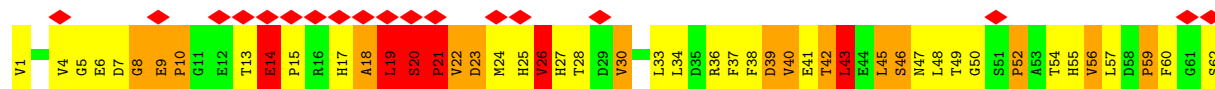
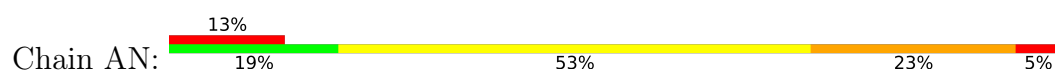




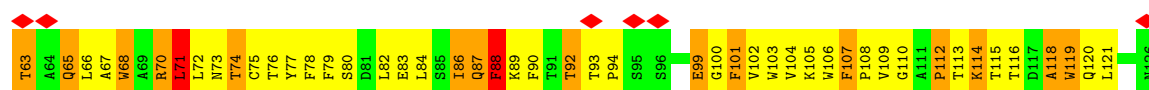
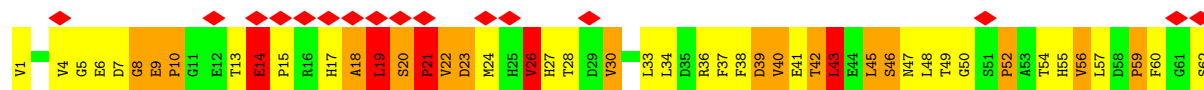
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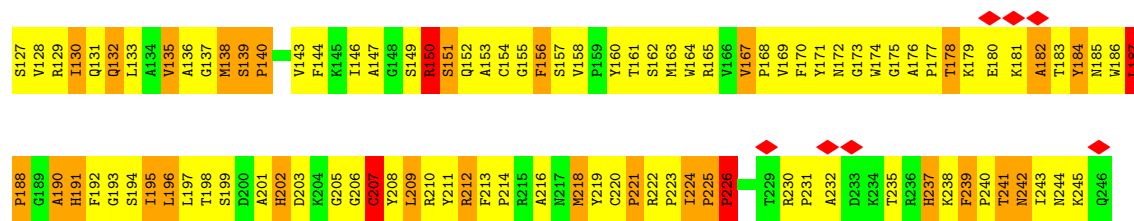


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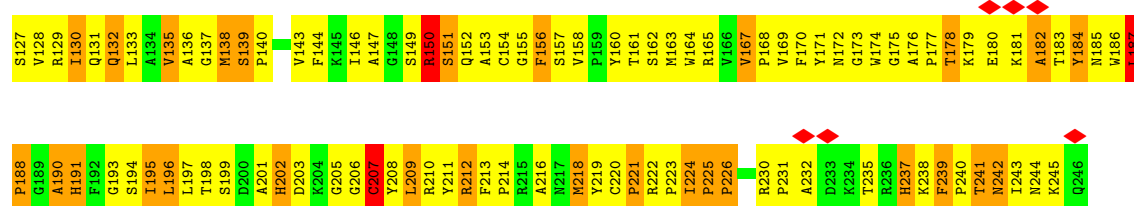
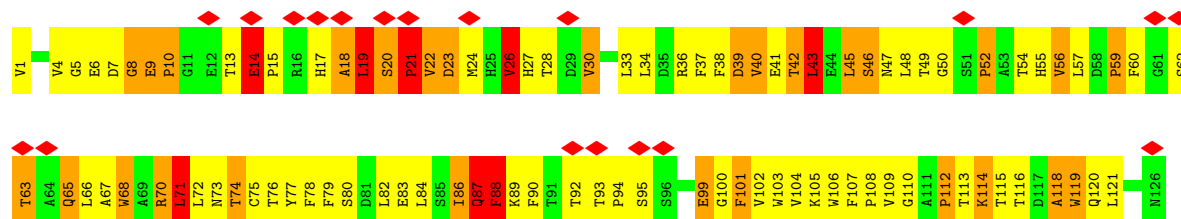


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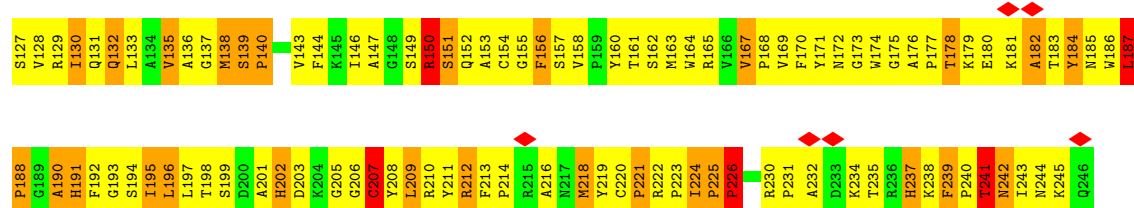
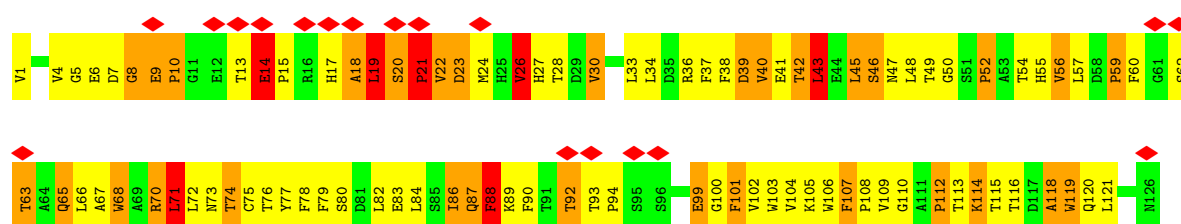
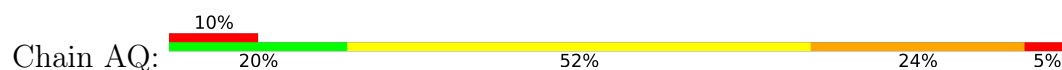




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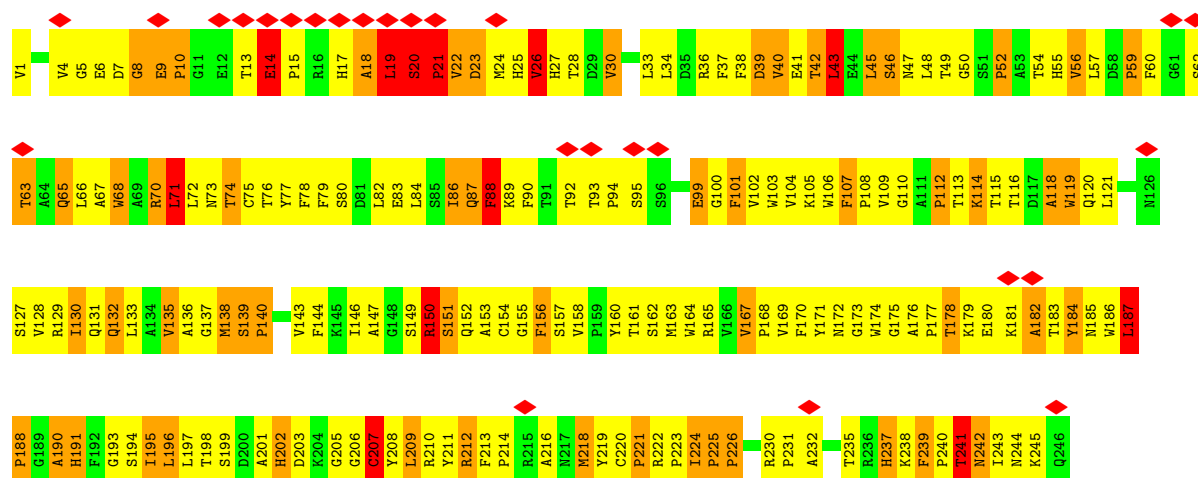


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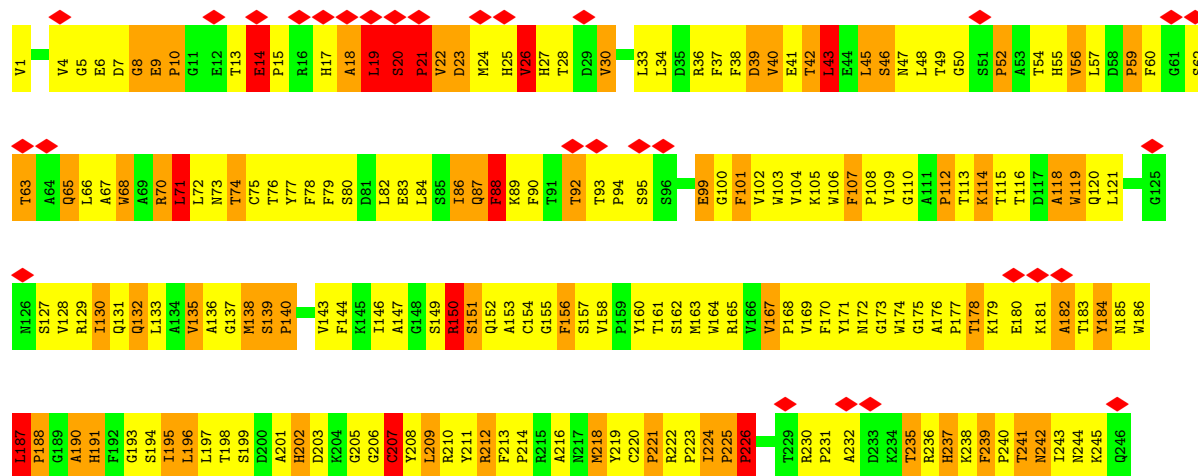
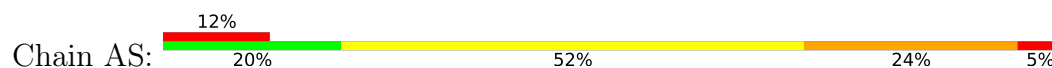


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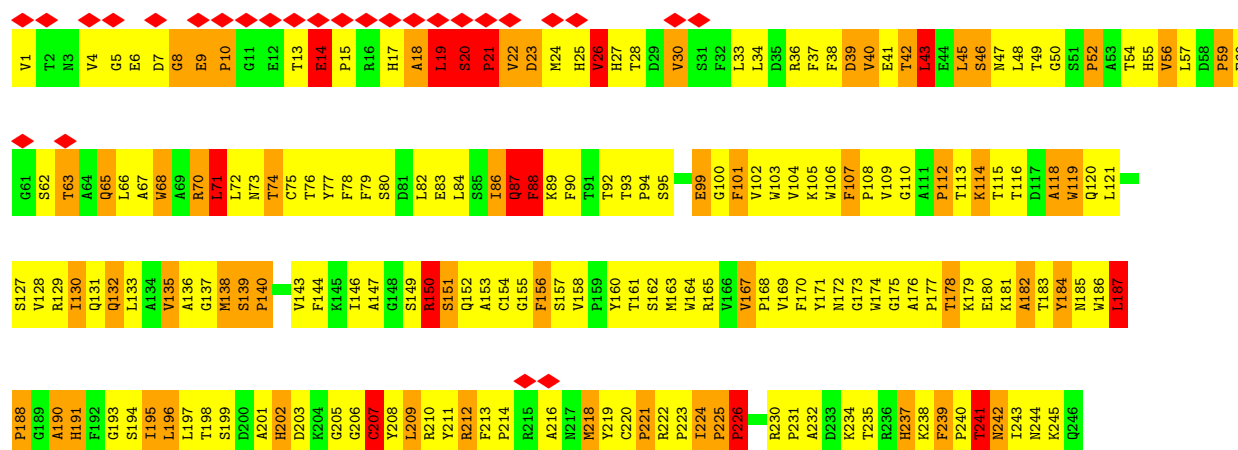




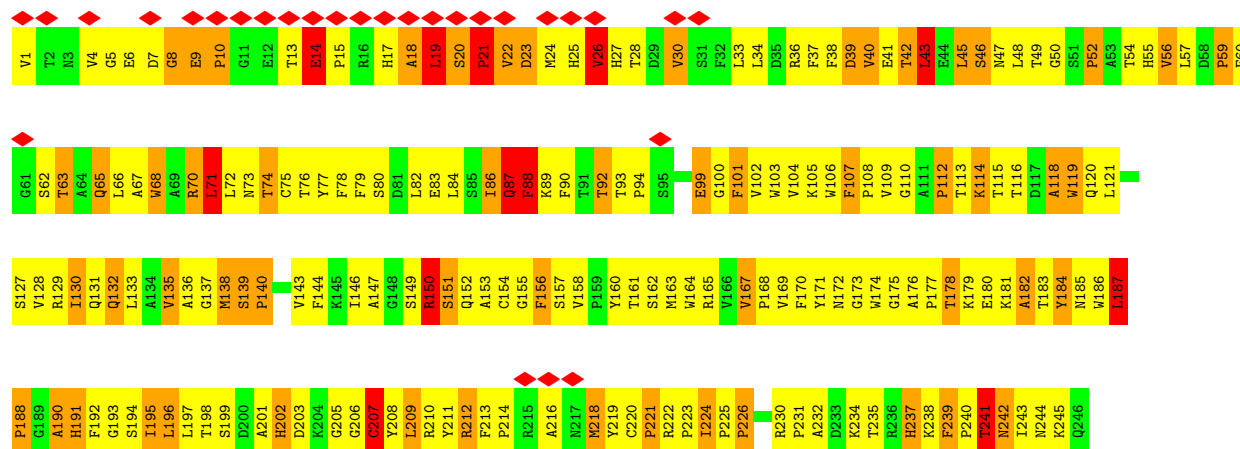
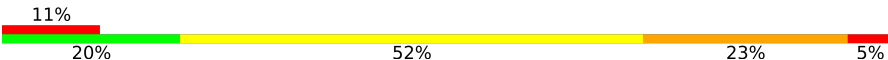
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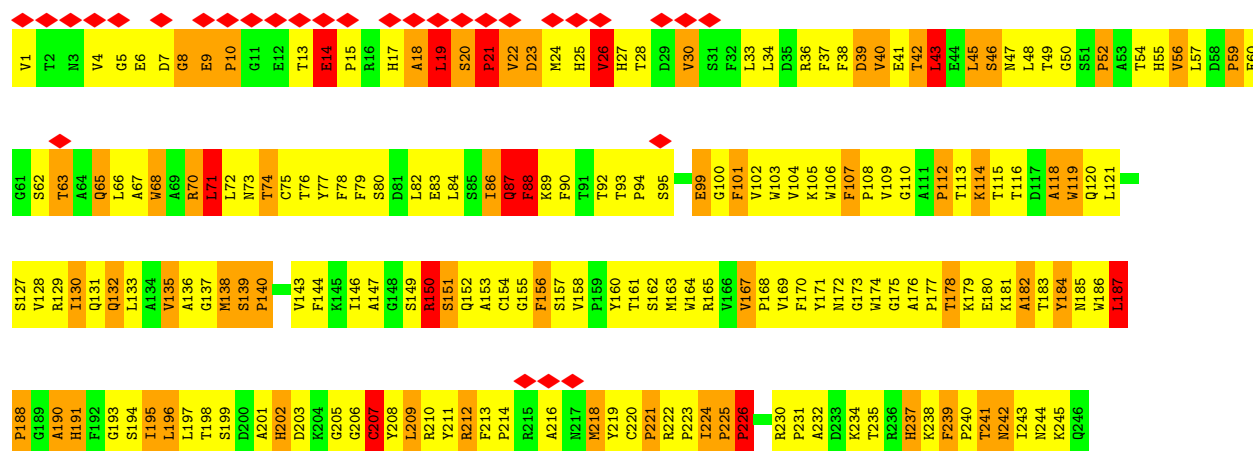
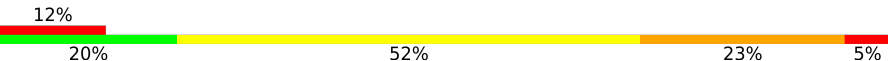
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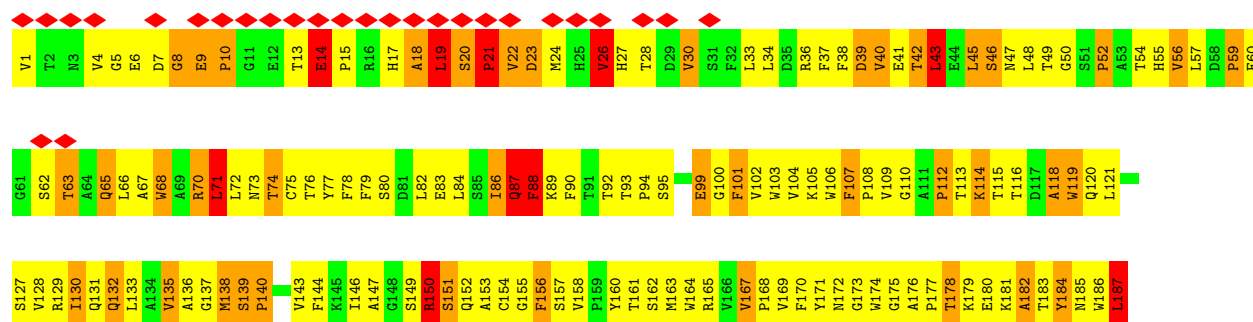
● Molecule 1: VP1

Chain AU: 

● Molecule 1: VP1

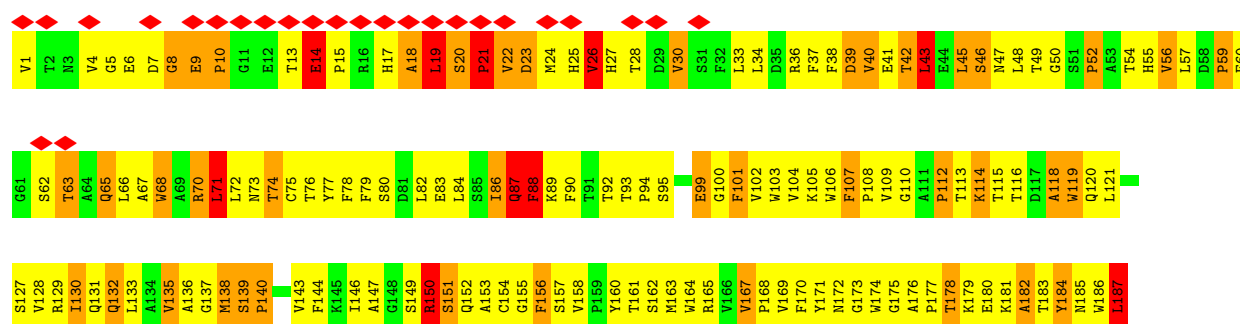
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● Molecule 1: VP1

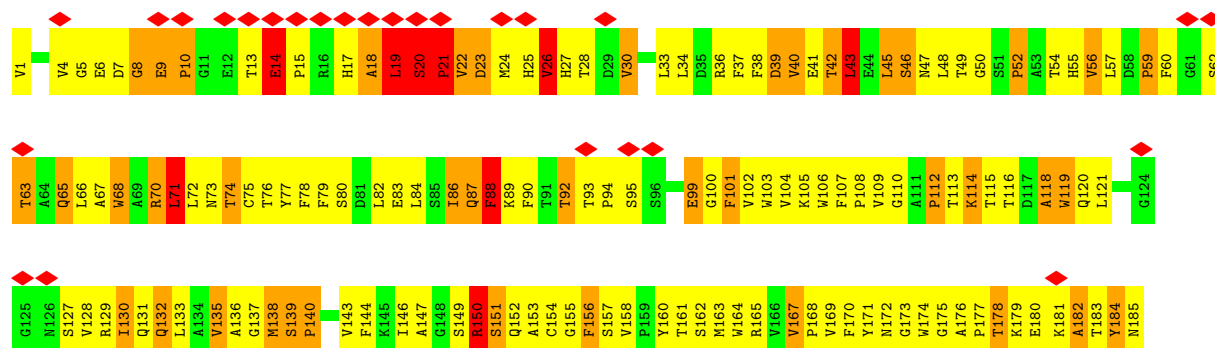
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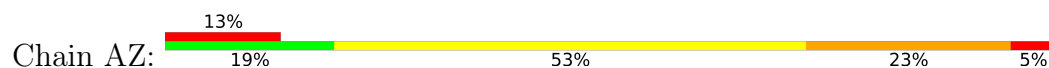
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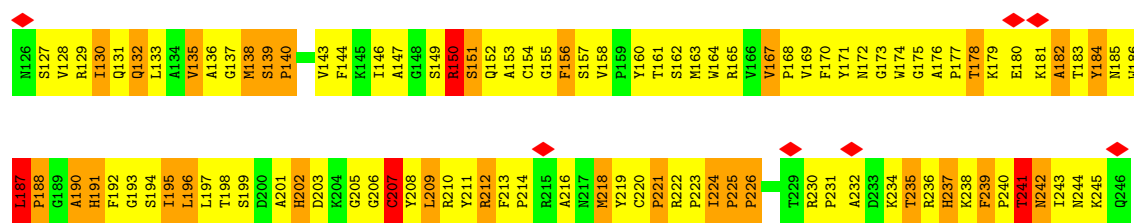


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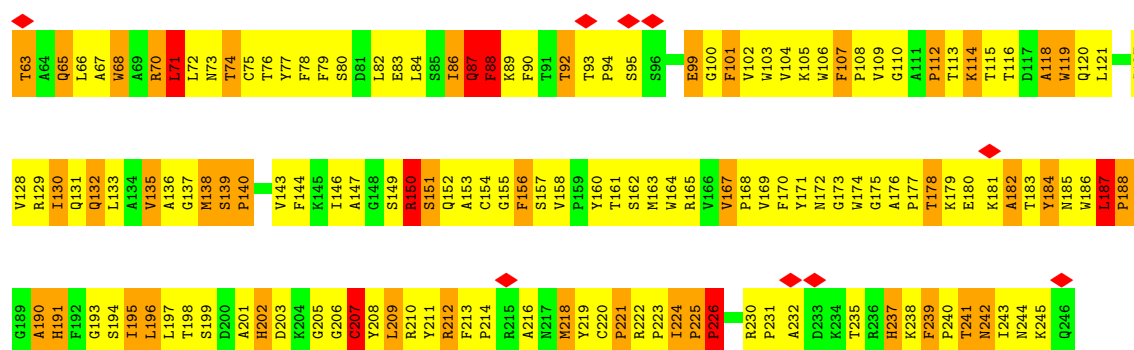
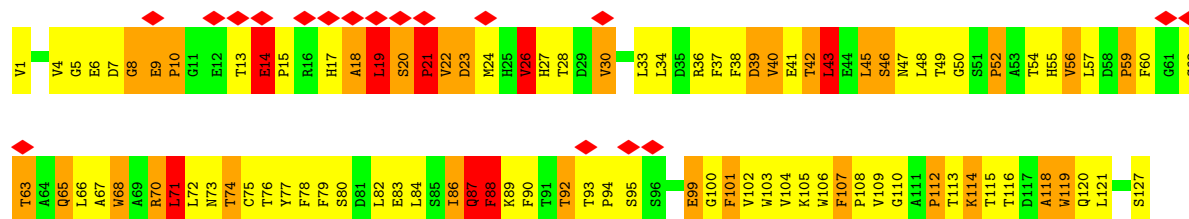
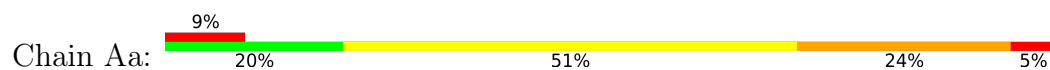


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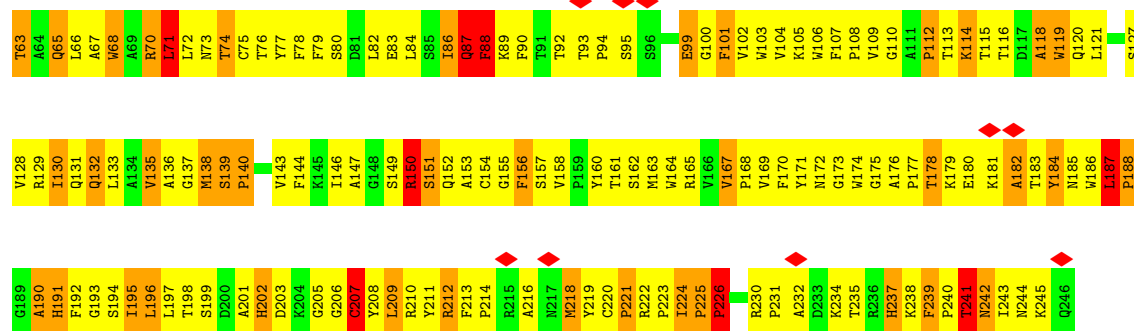
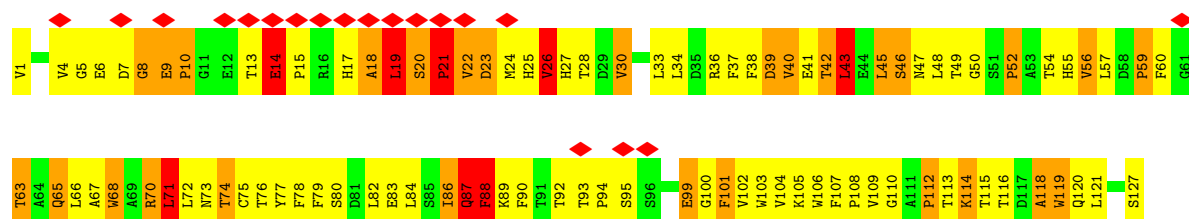
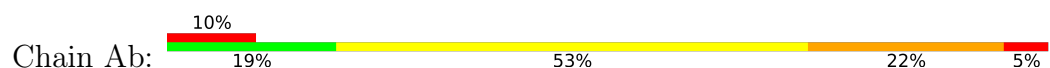




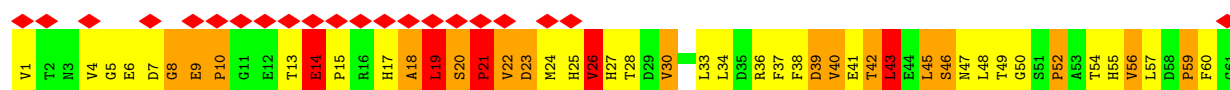
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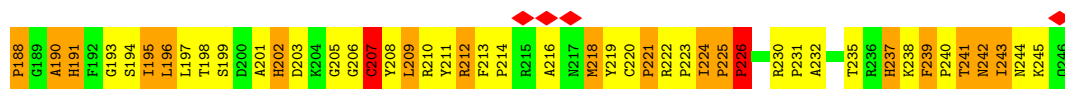
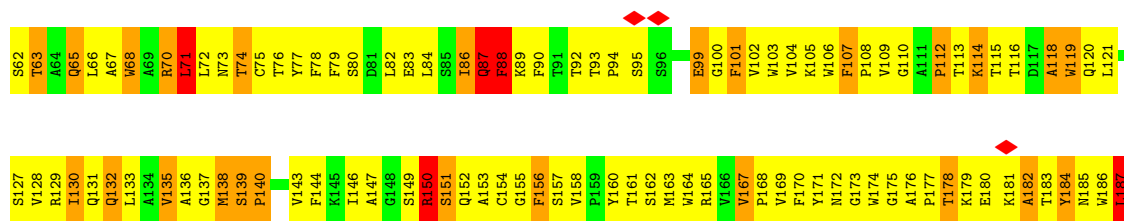


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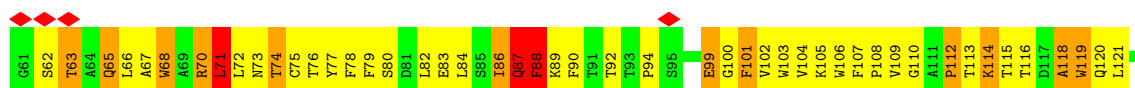


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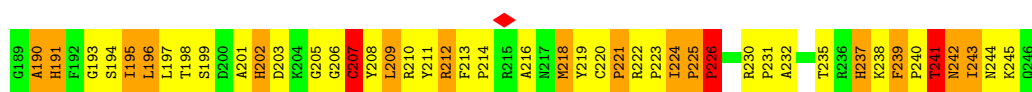
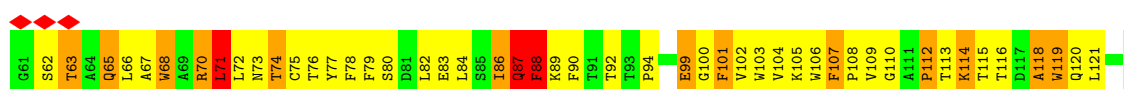




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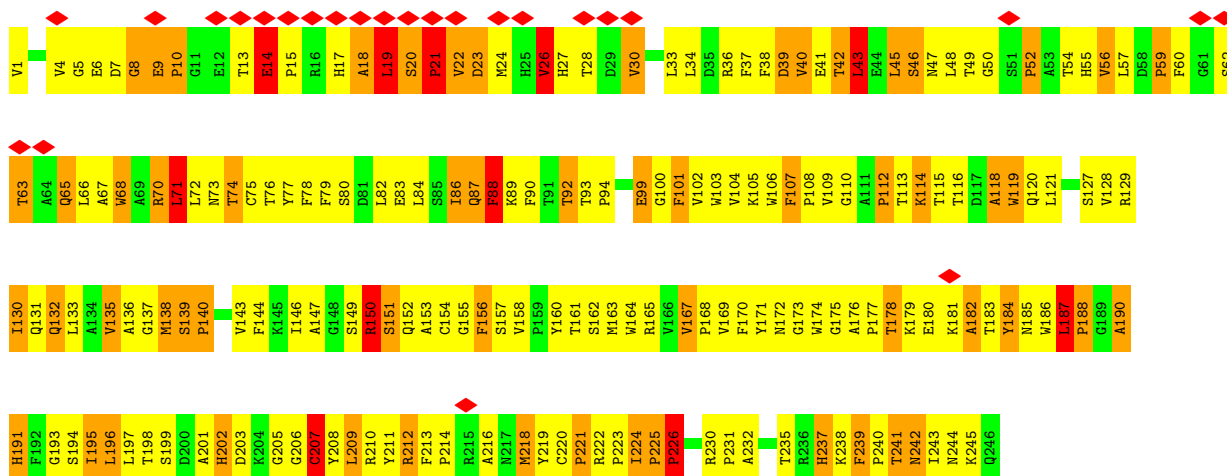


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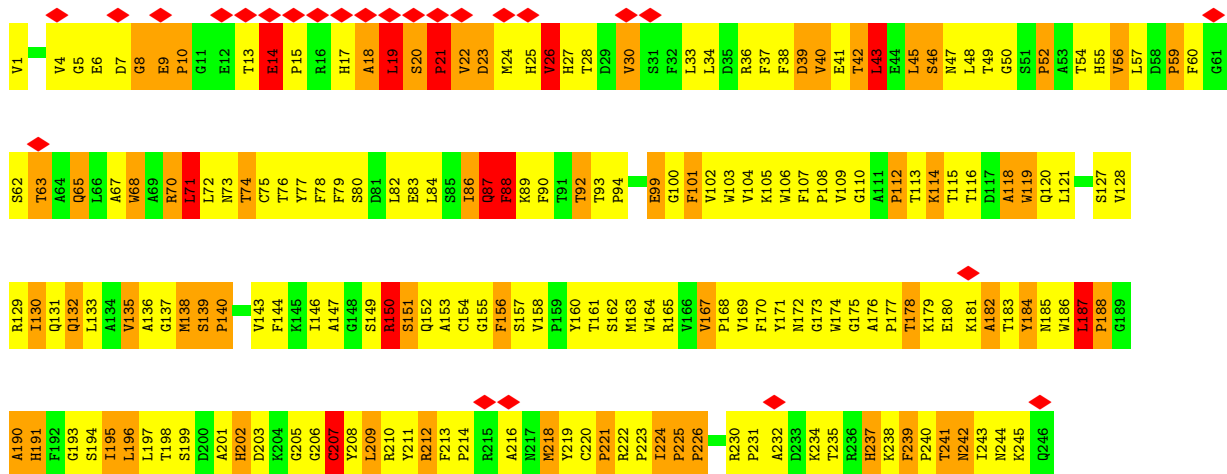
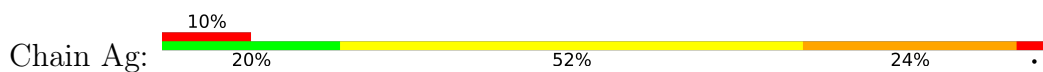


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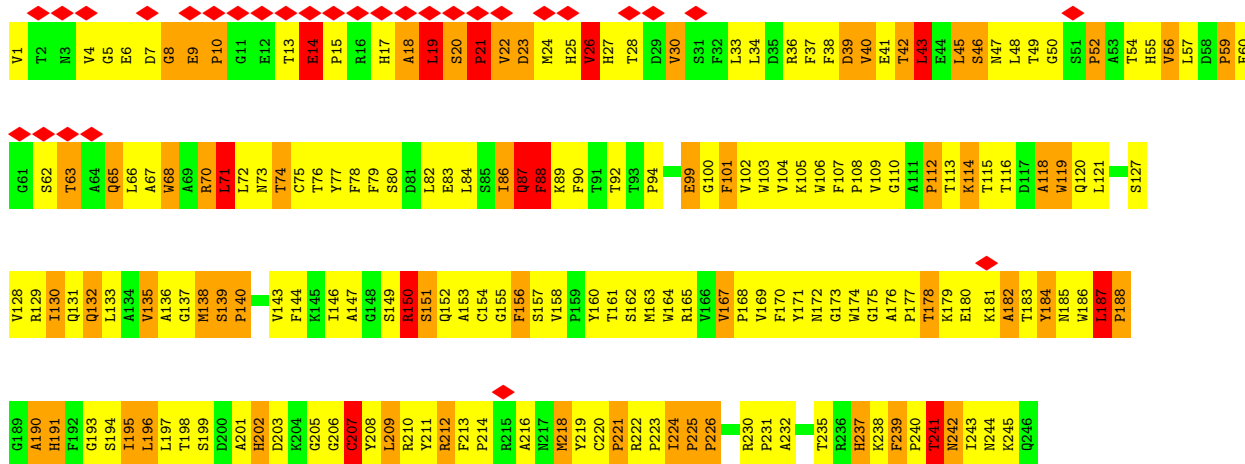




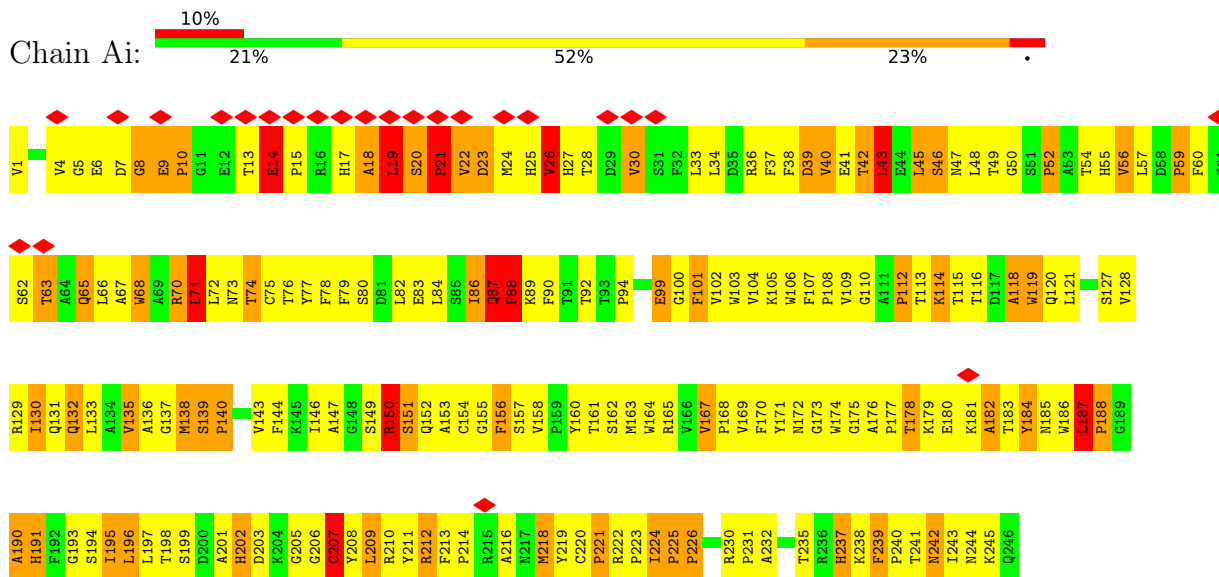
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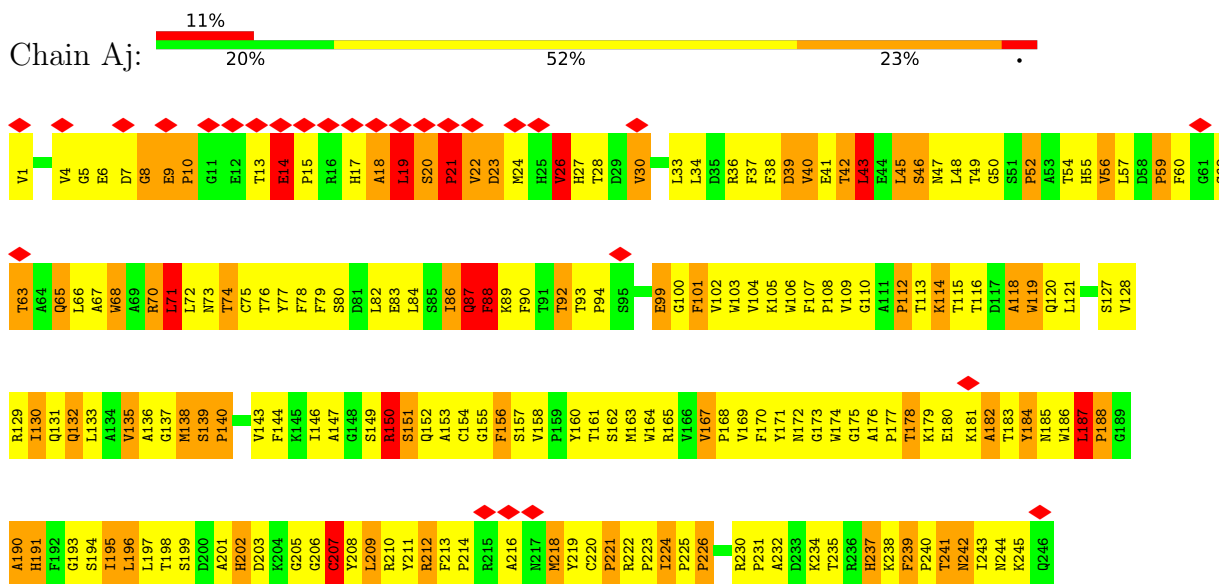
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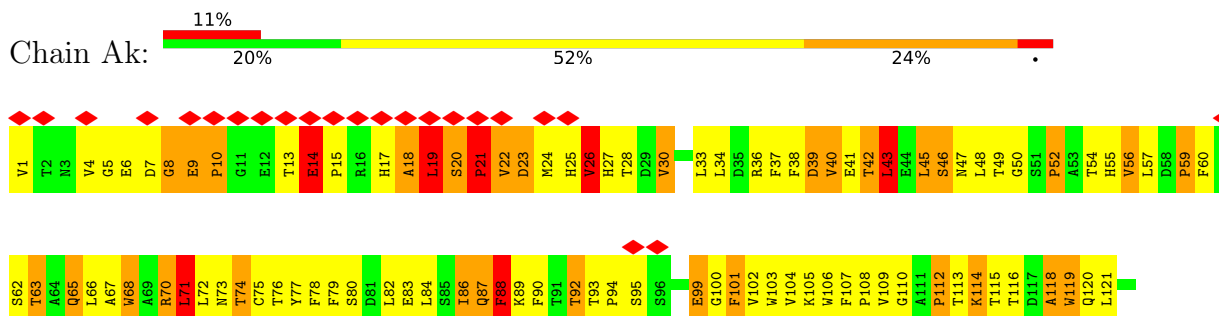
● Molecule 1: VP1



● Molecule 1: VP1

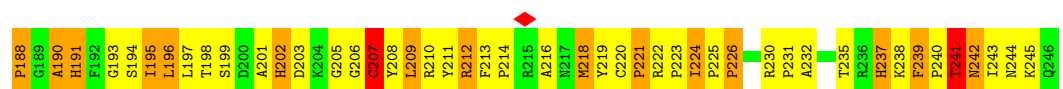
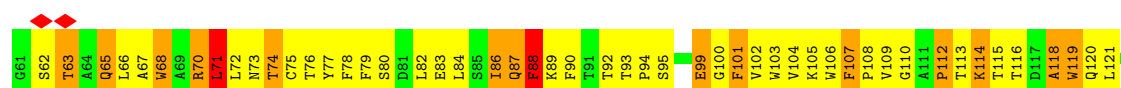


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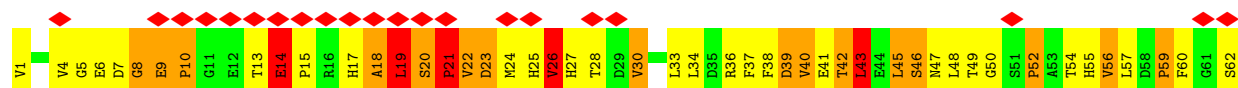




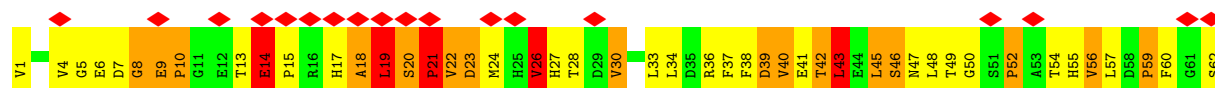
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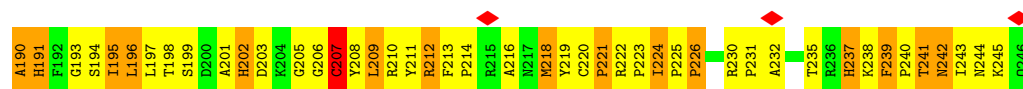
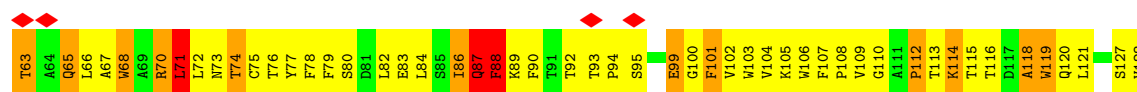


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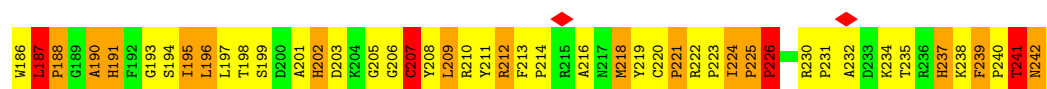
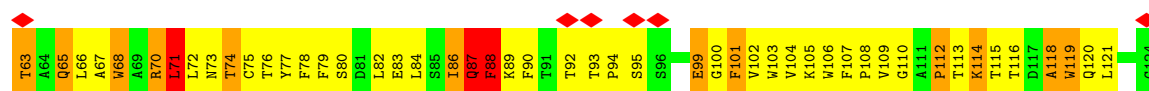
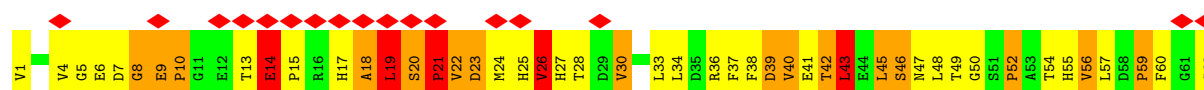


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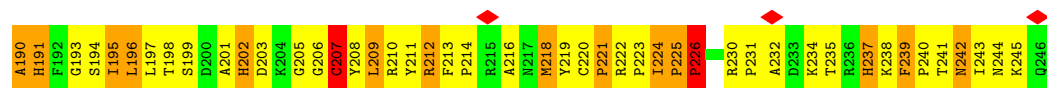
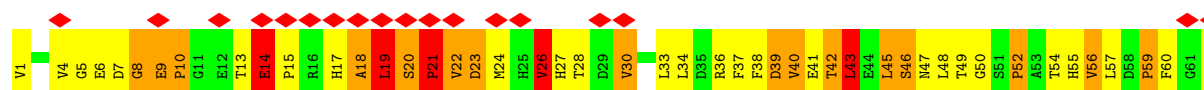




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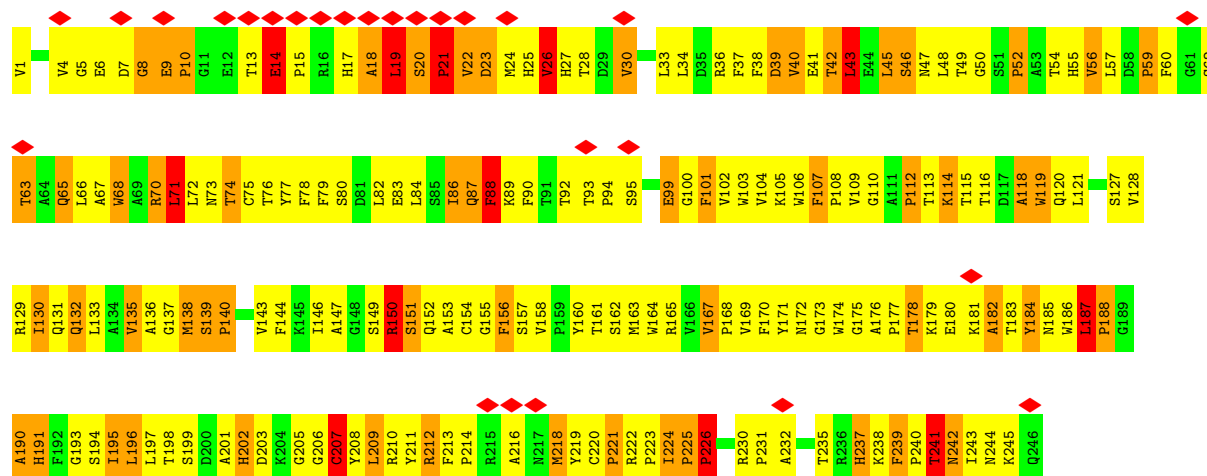


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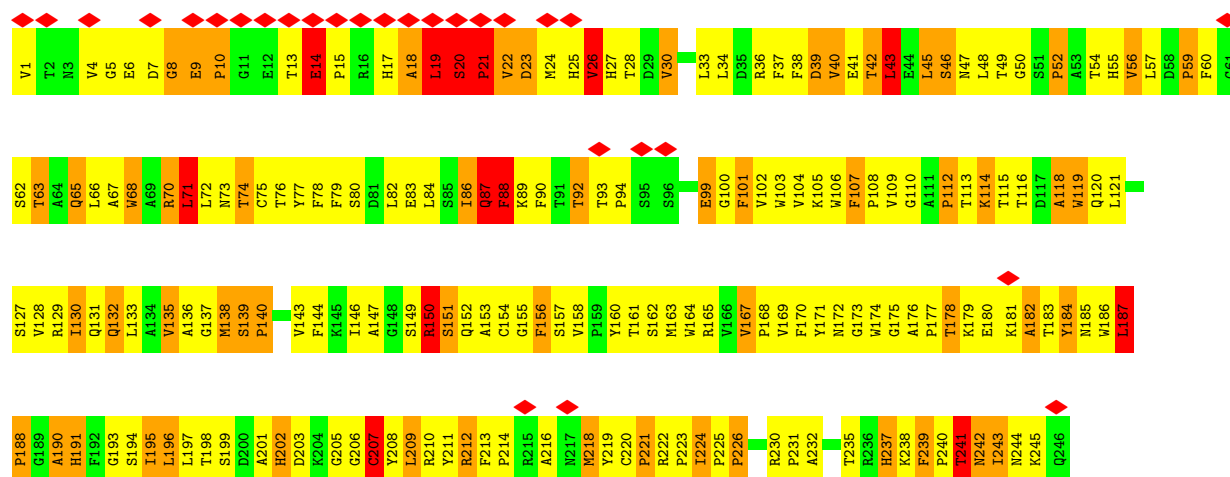


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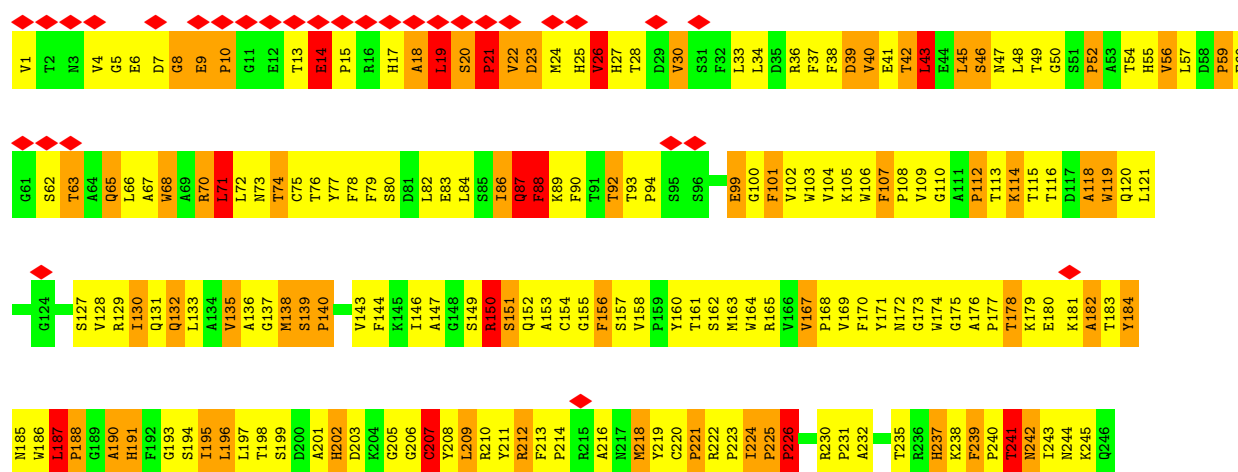




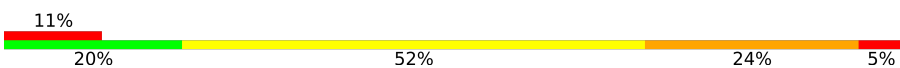
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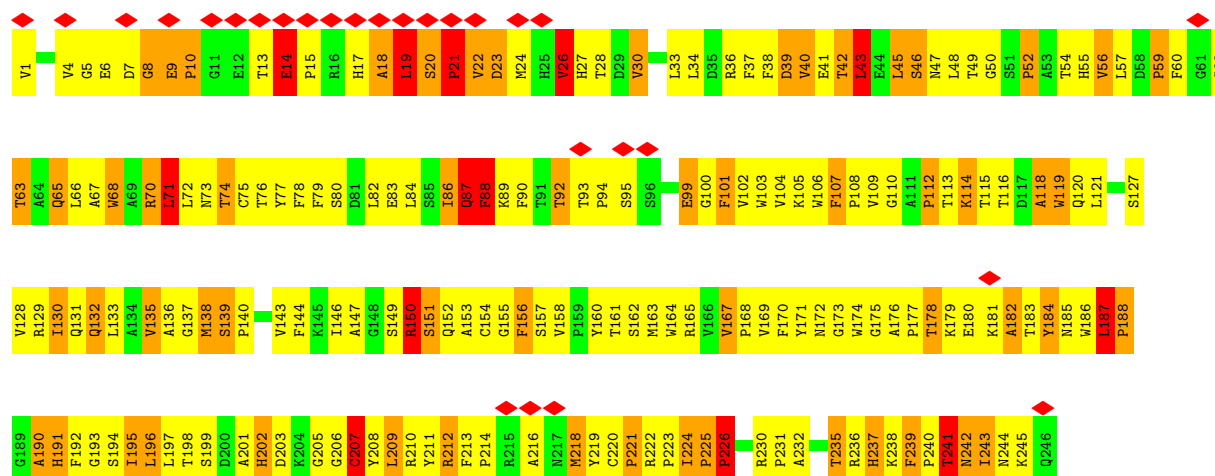


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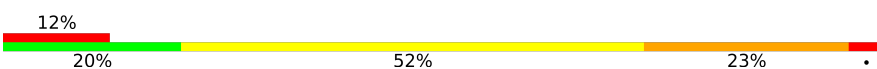


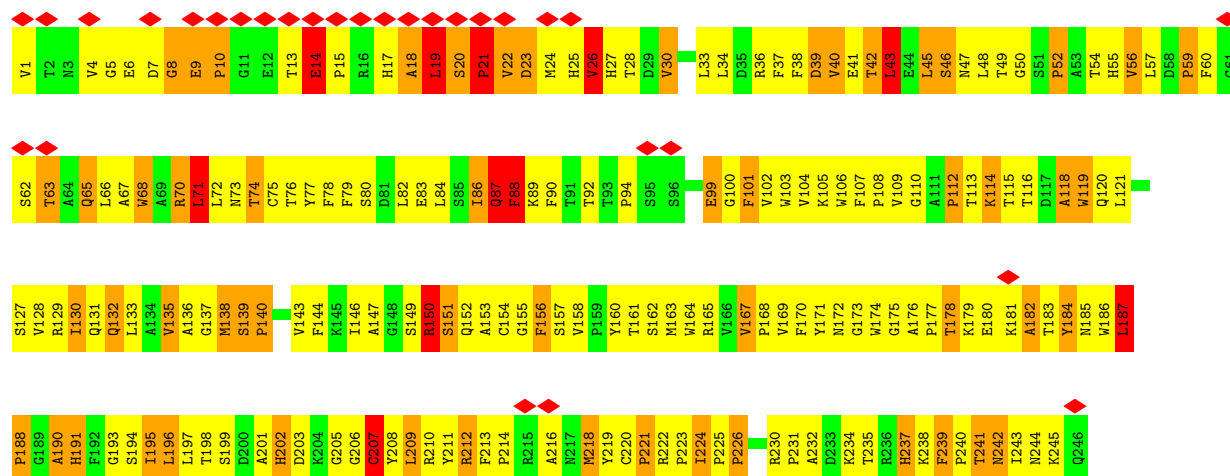
- Molecule 1: VP1

Chain BE: 

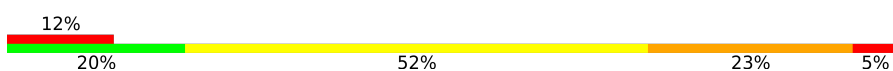


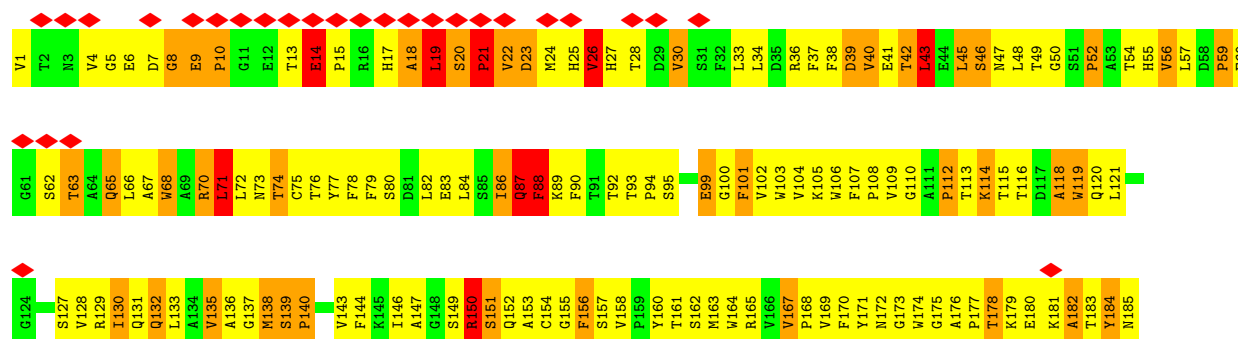
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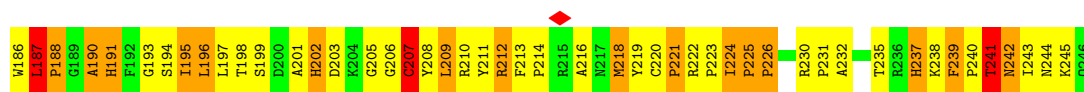
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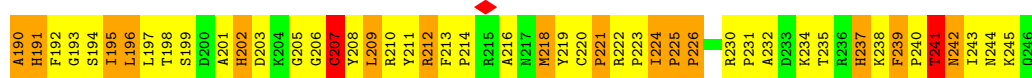
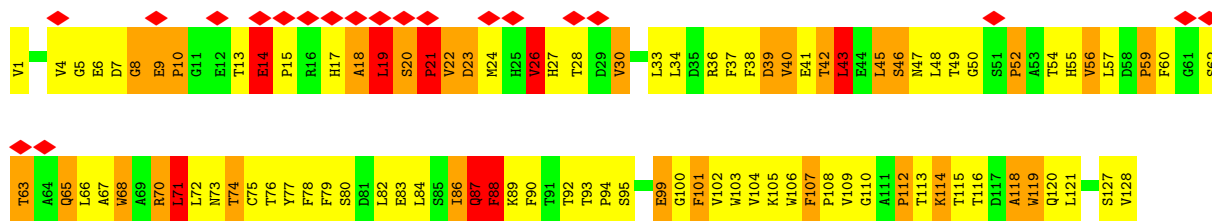
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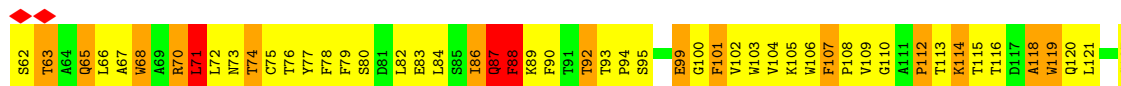
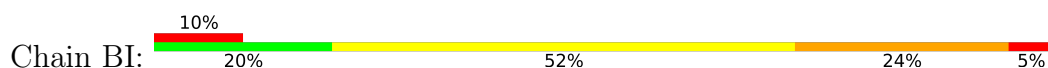




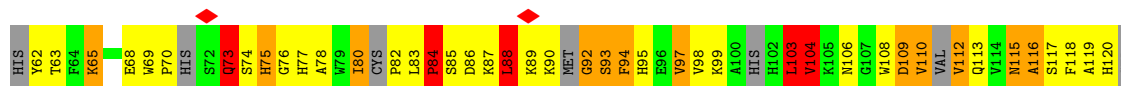
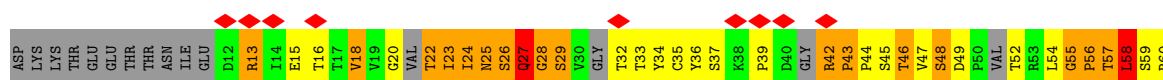
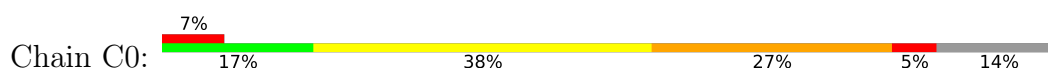
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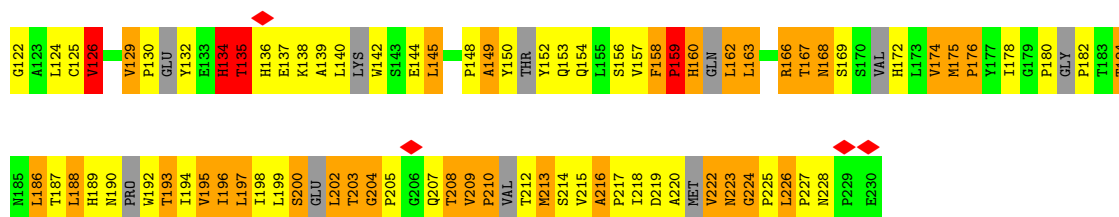


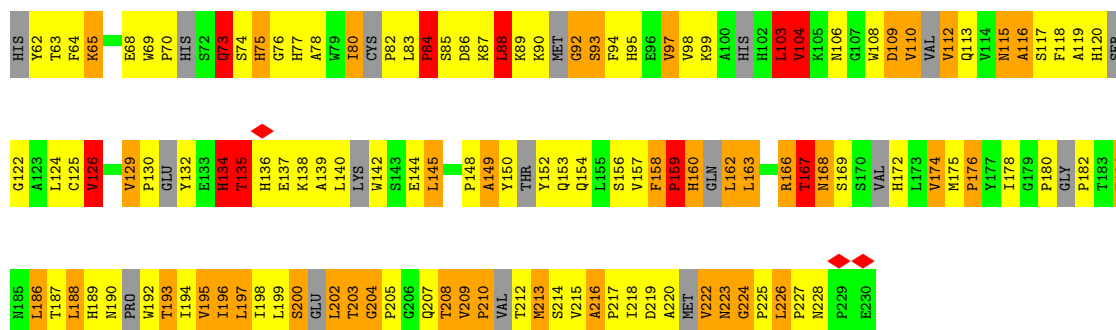
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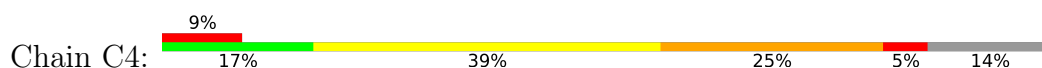
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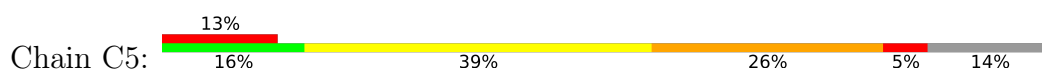




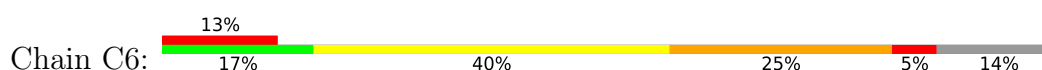
• Molecule 2: EQUINE RHINITIS A VIRUS

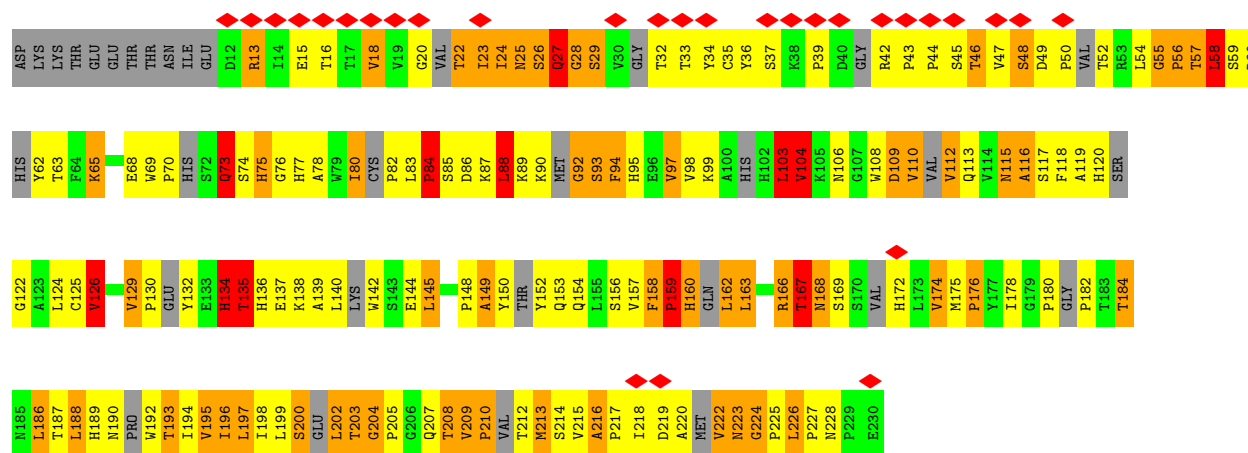


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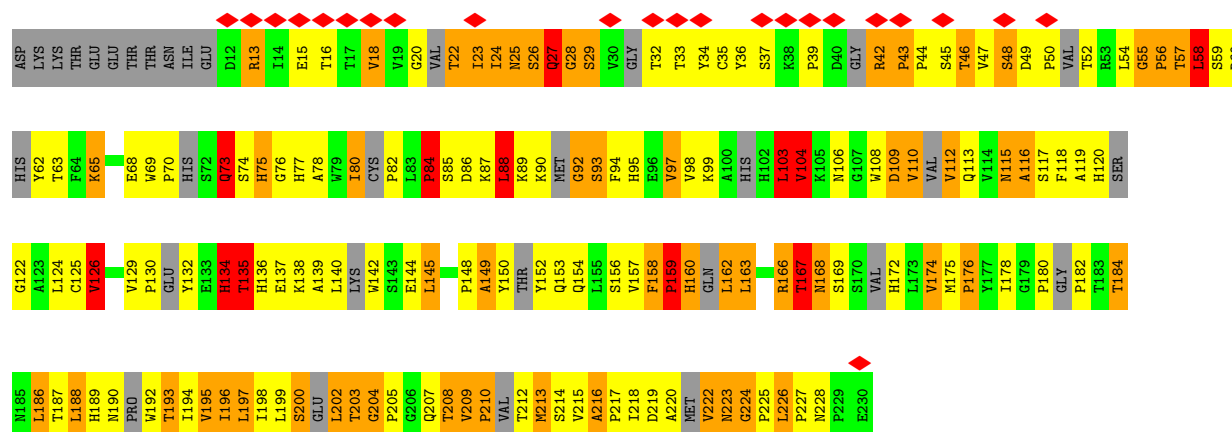
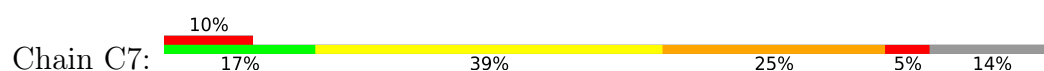


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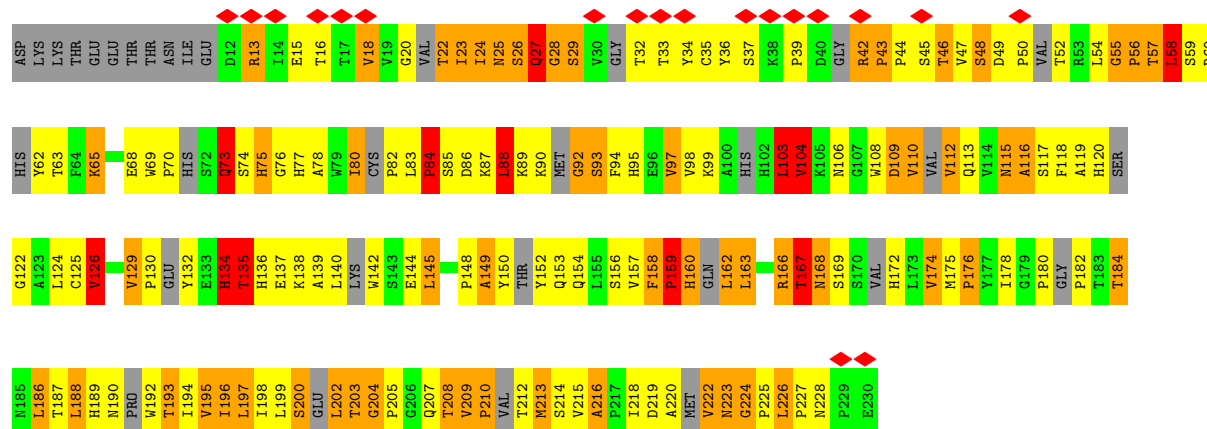
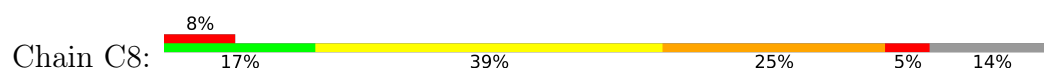




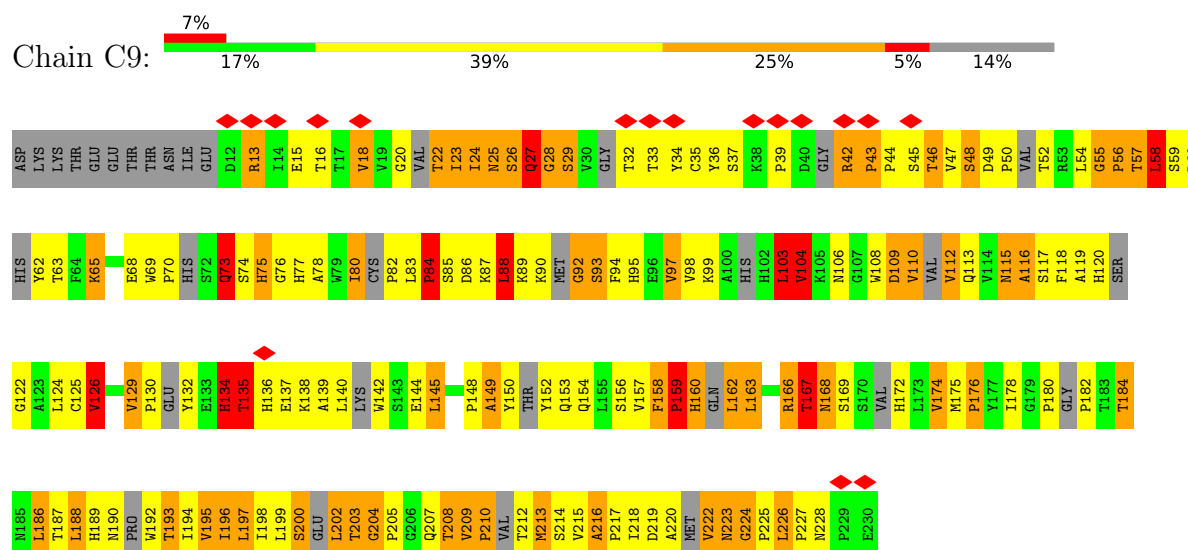
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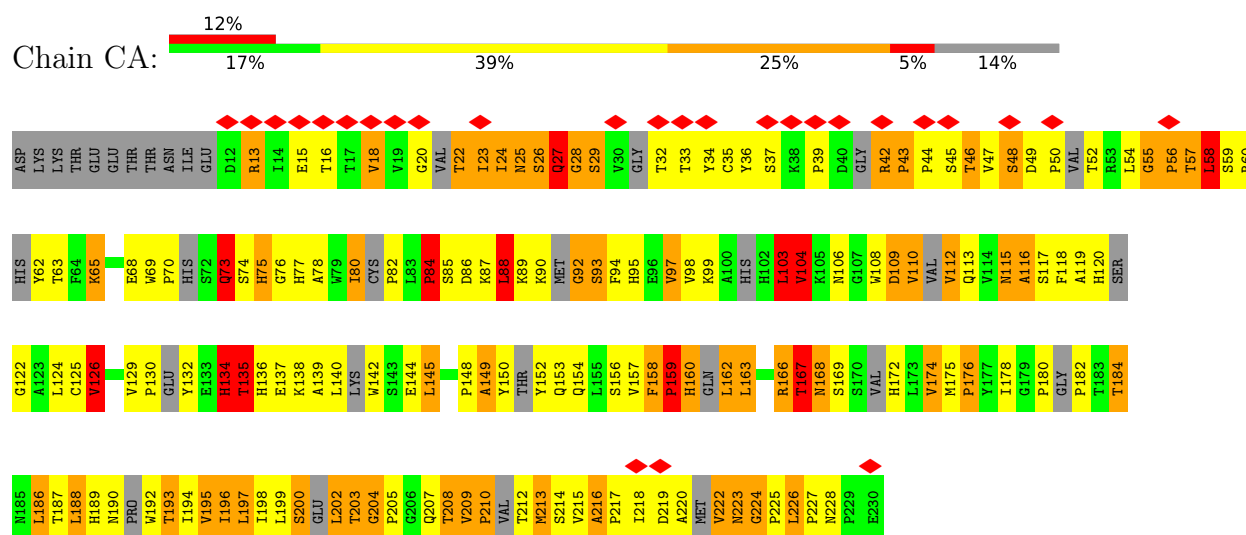
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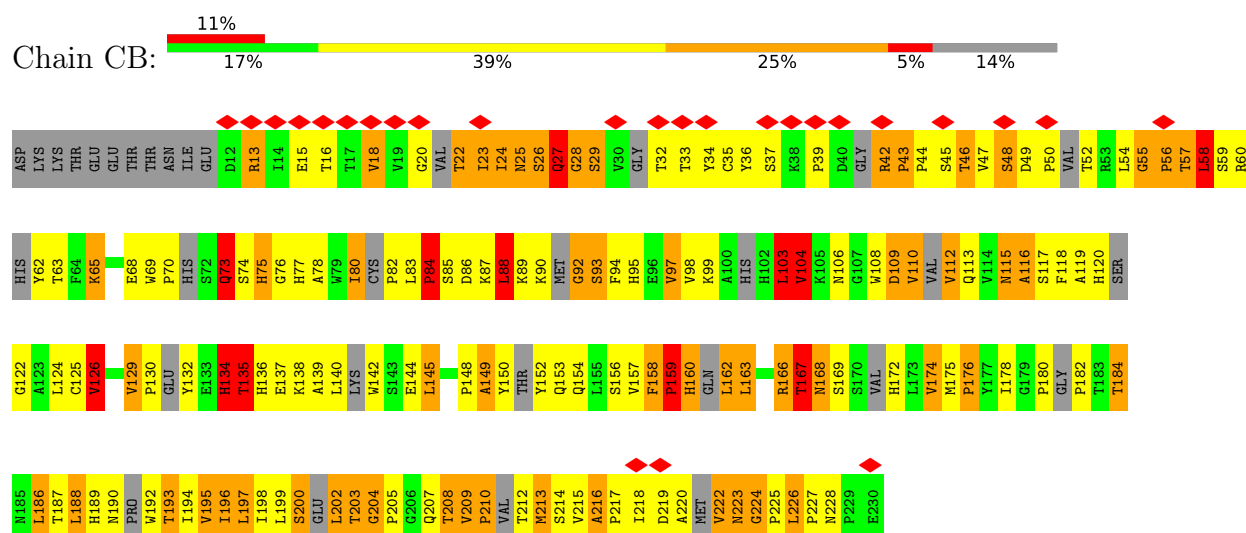
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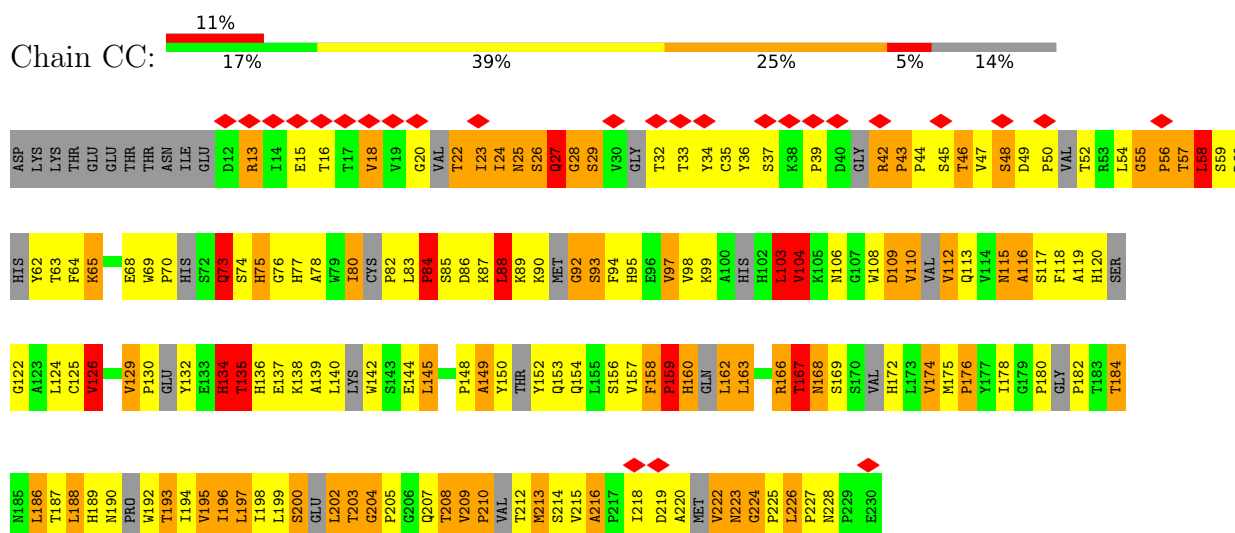
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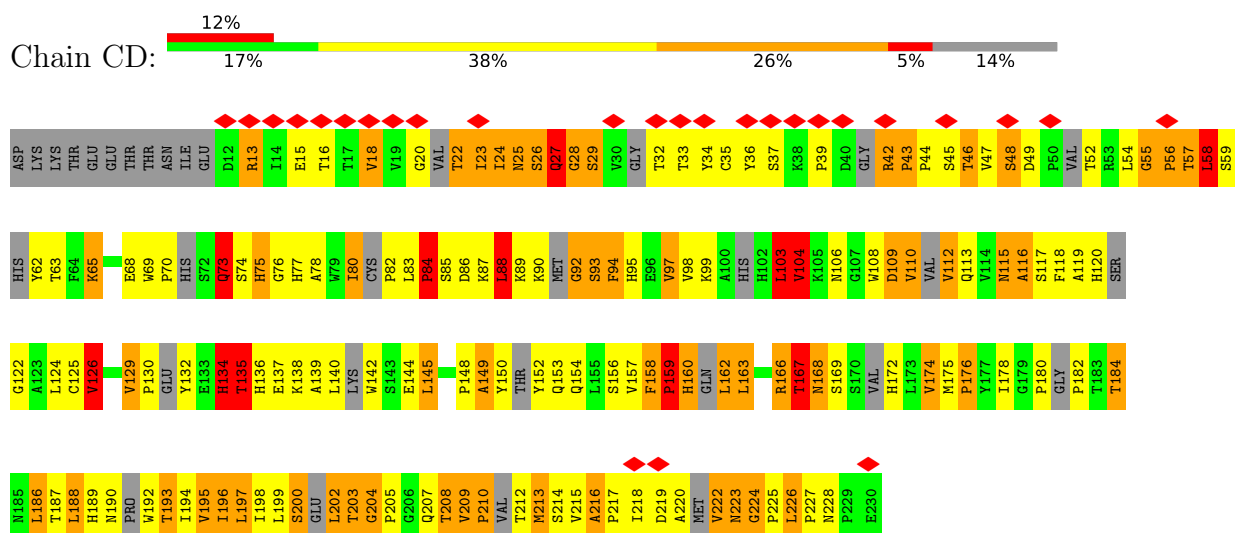
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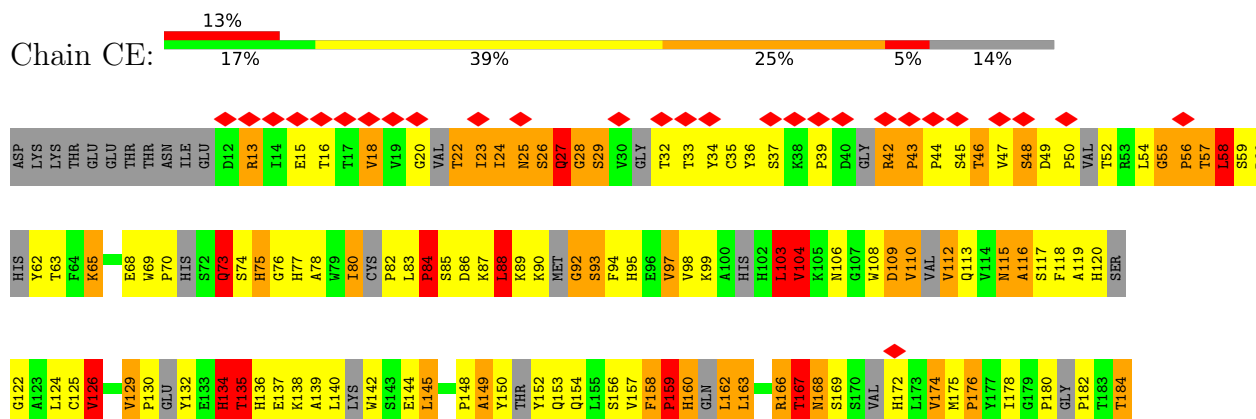
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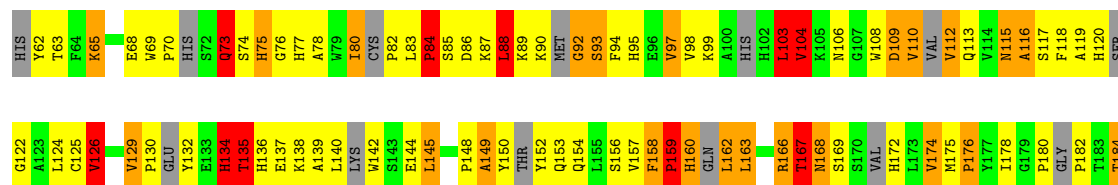
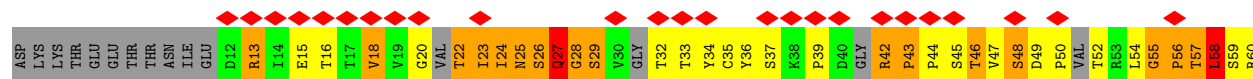
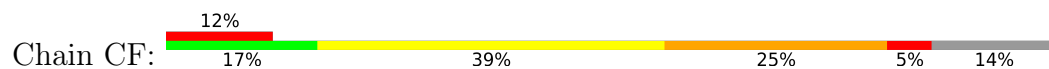


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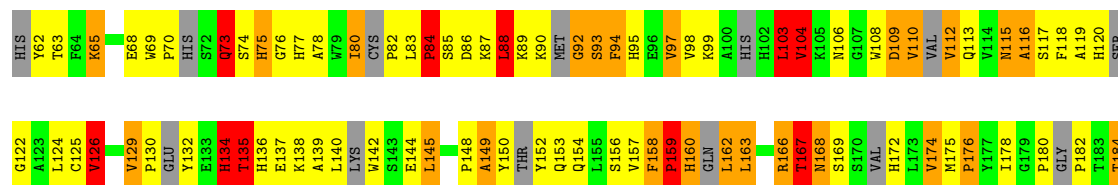
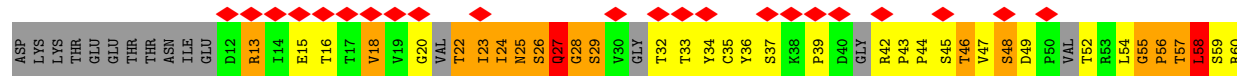
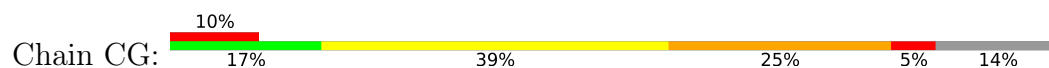




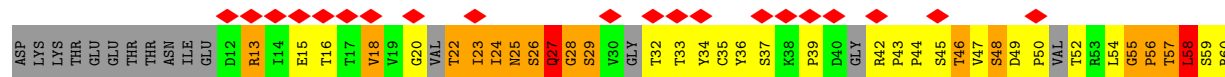
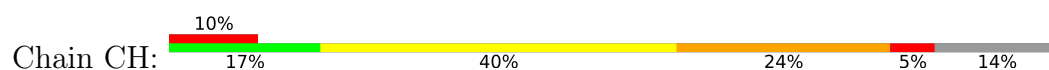
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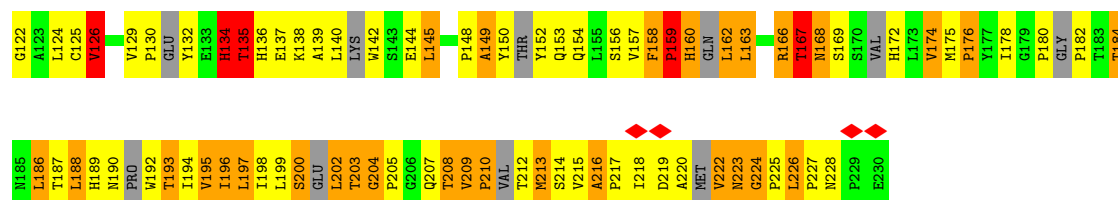


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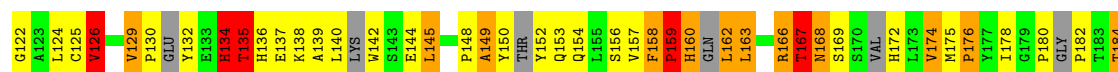
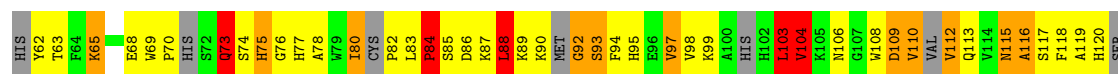
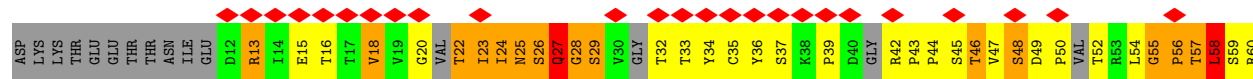


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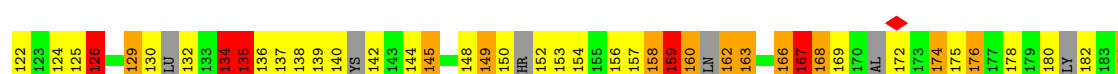
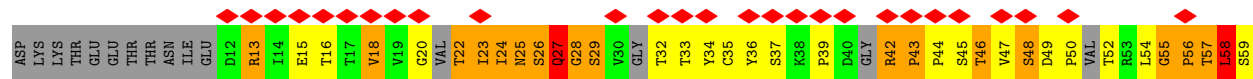
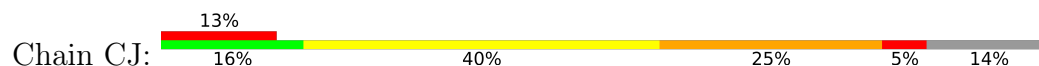




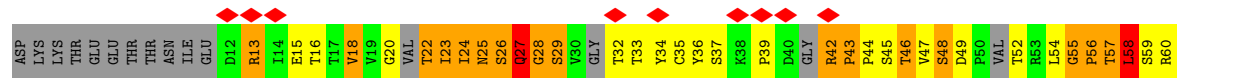
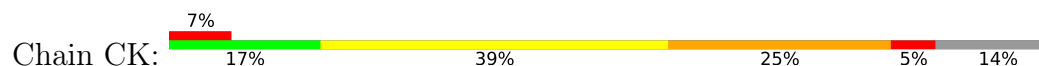
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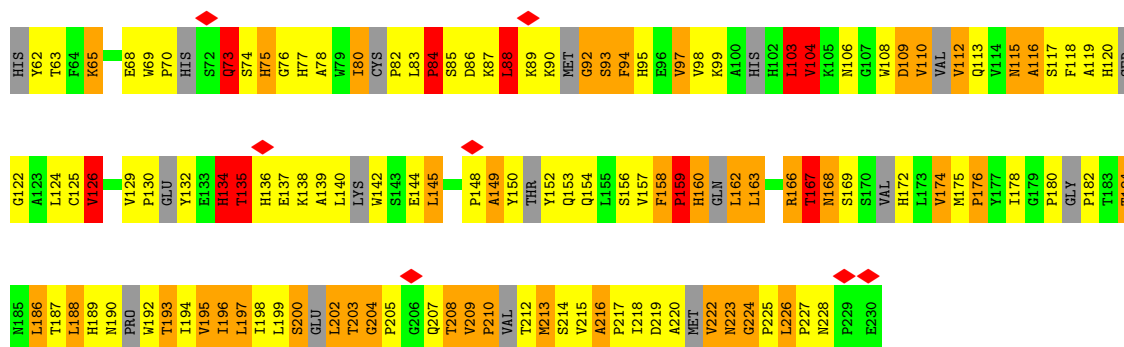


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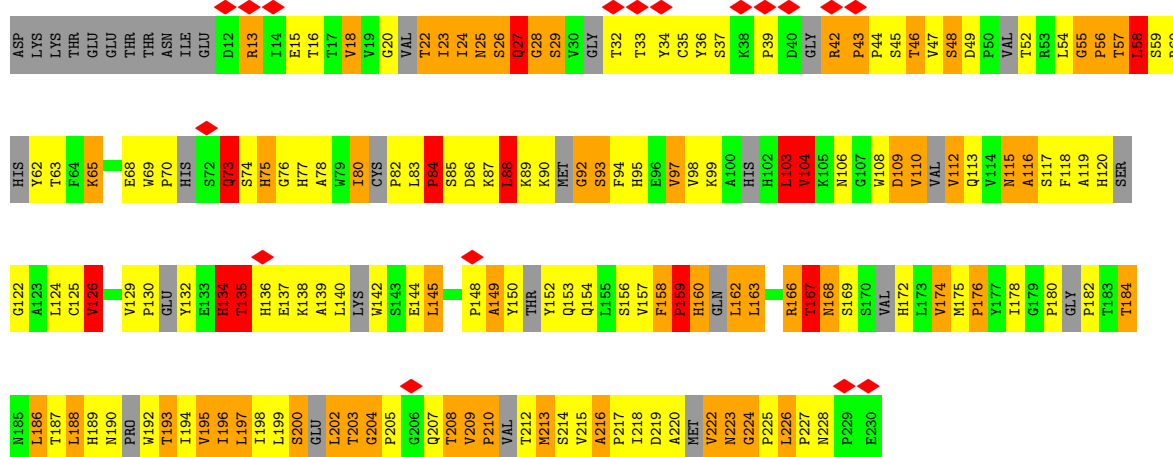
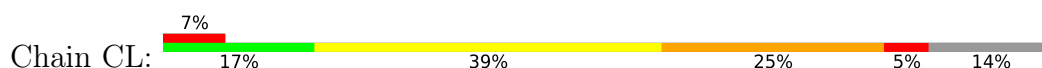


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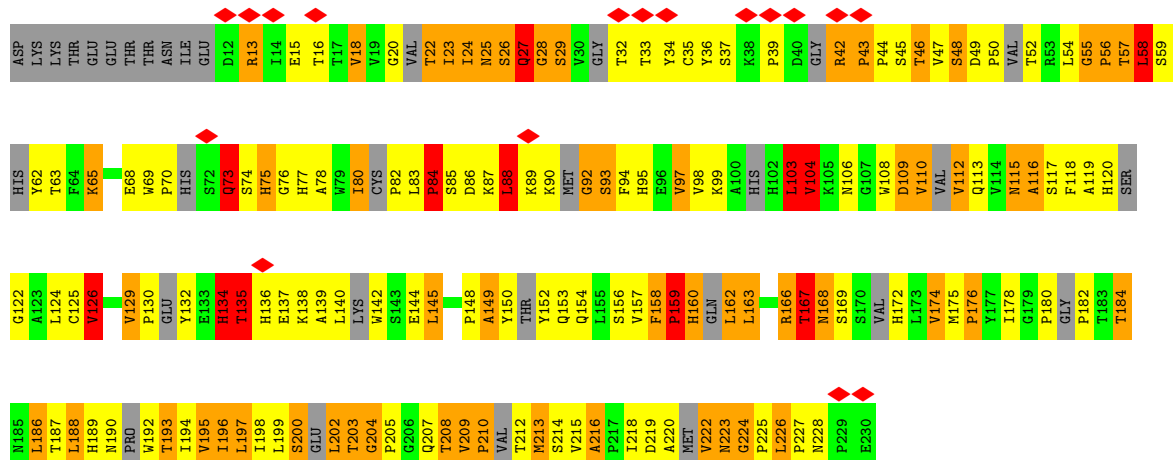
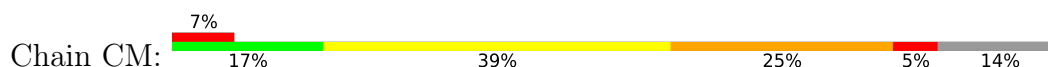




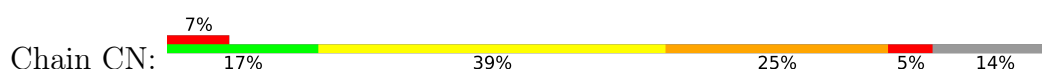
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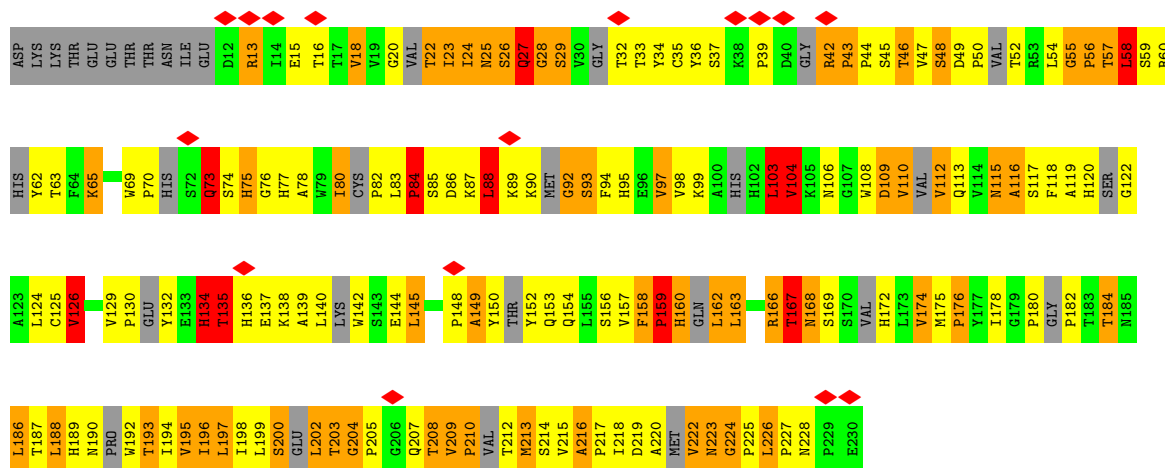


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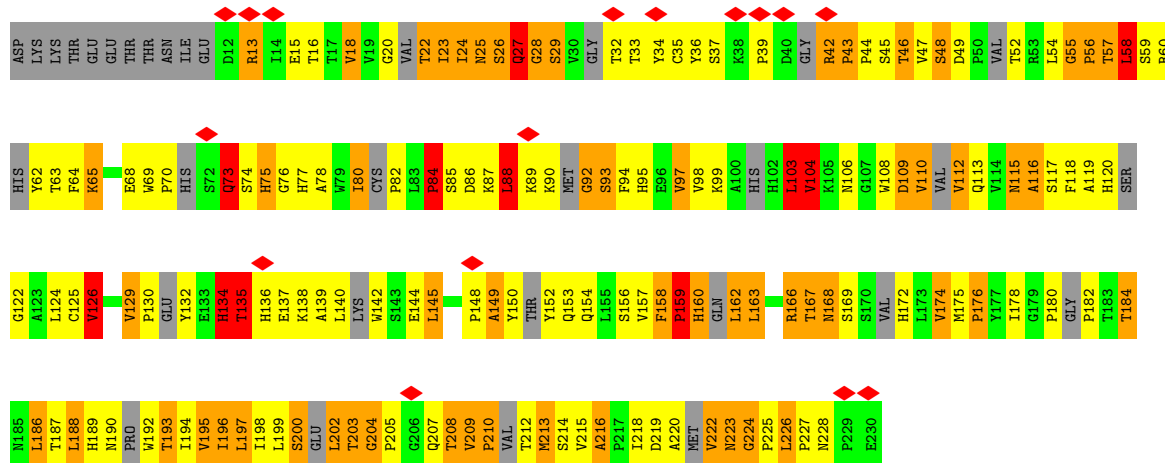
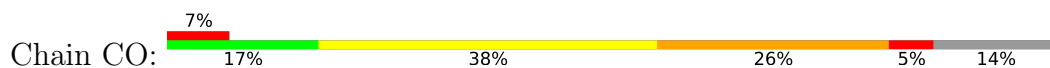


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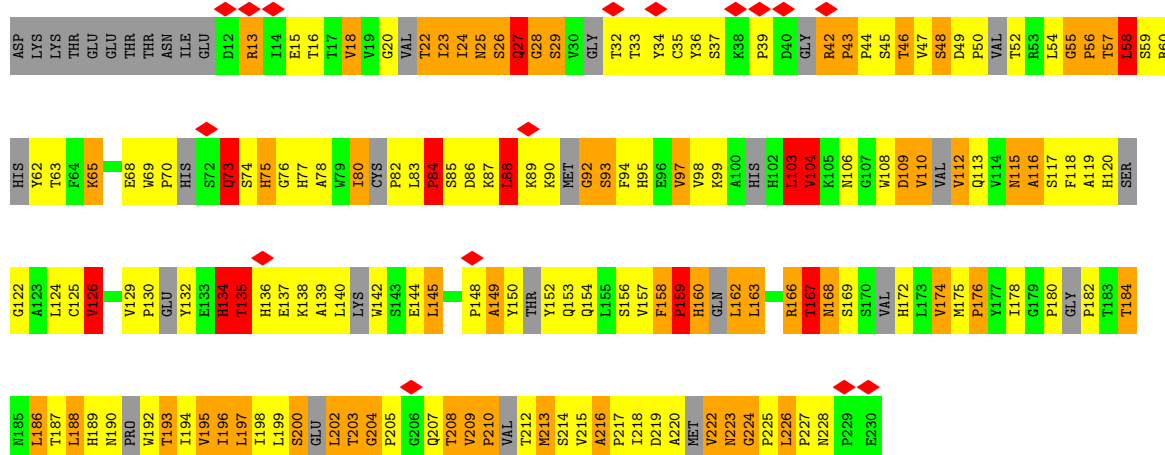
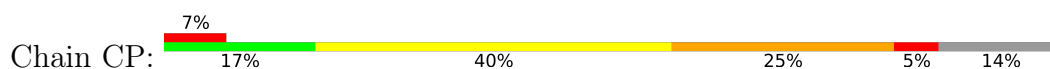




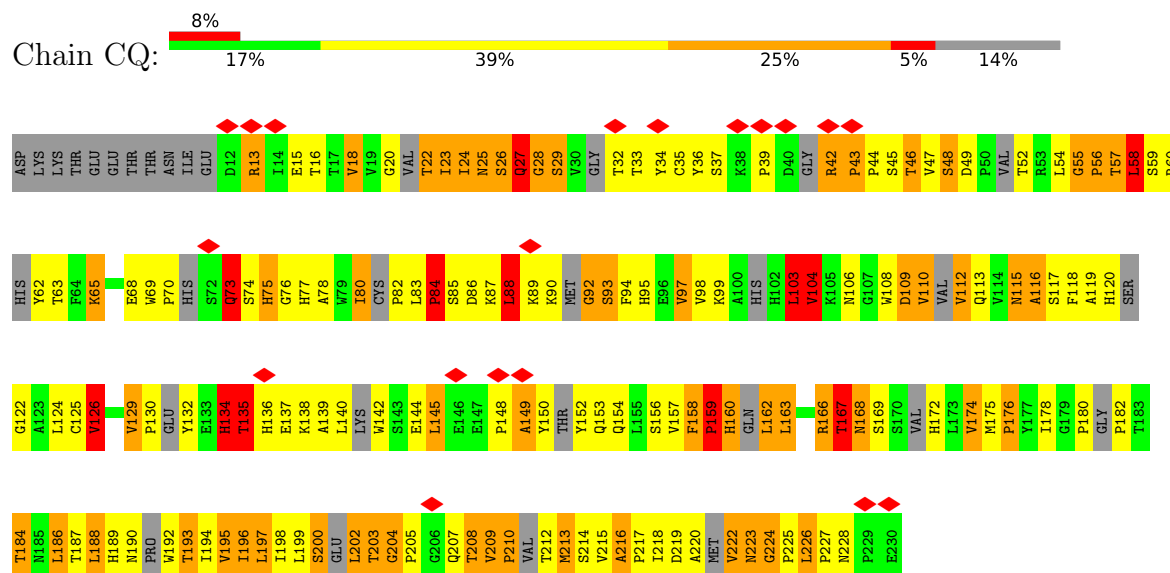
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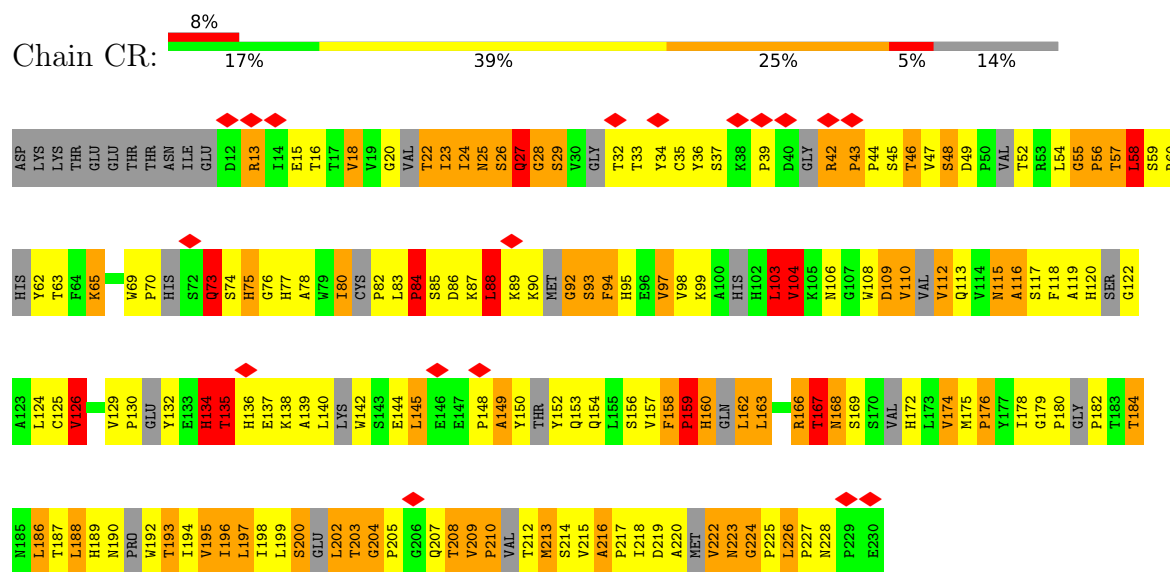
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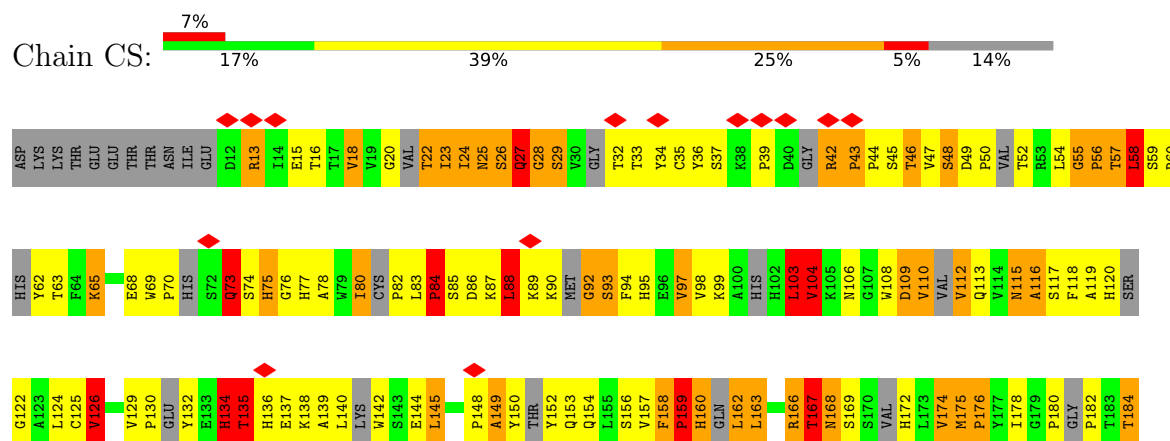
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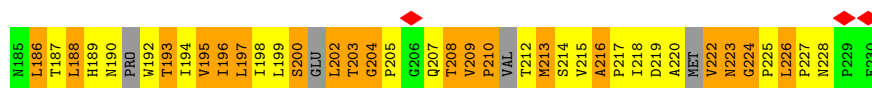


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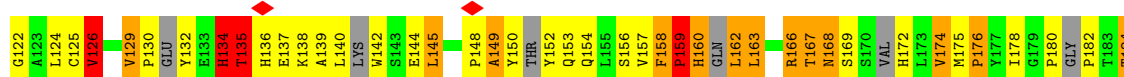
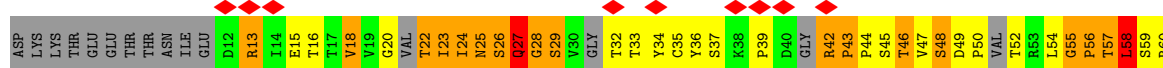
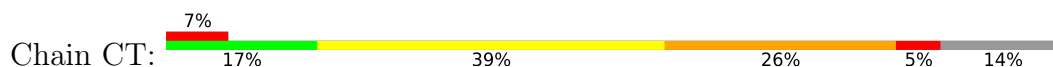


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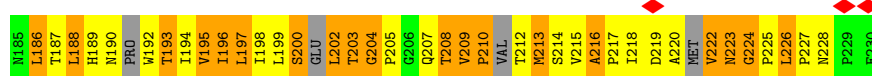
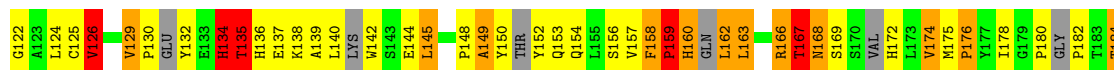
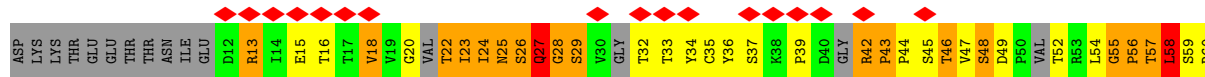
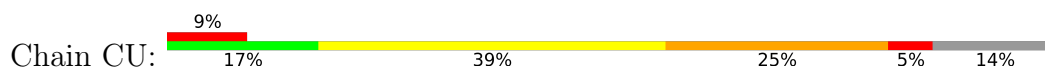




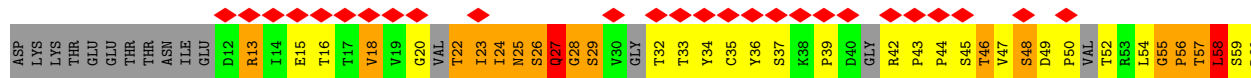
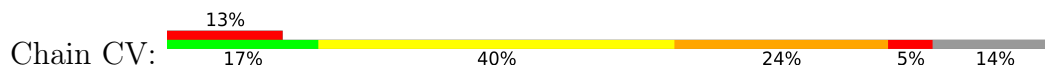
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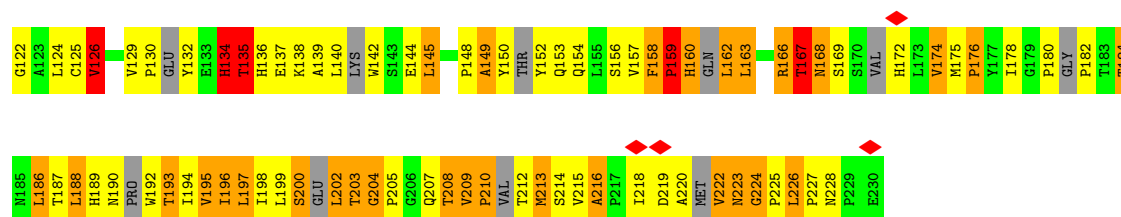


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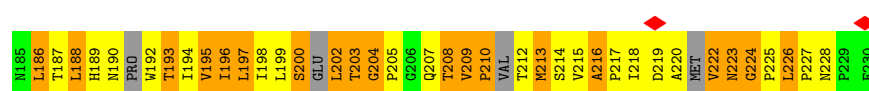
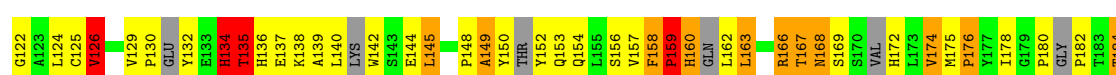
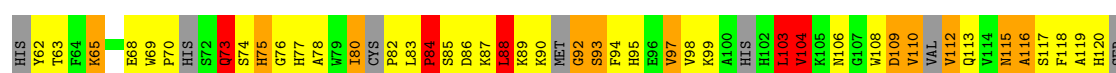
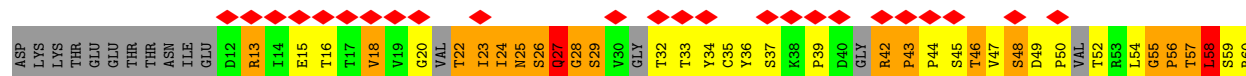
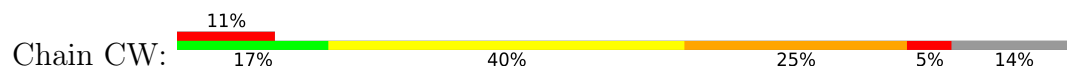


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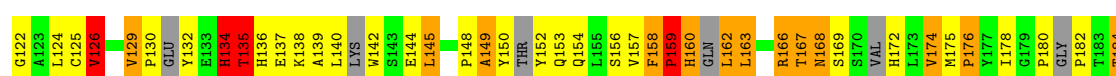
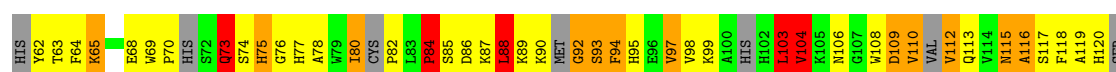
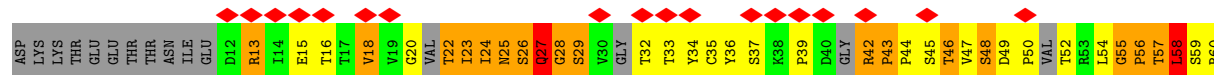
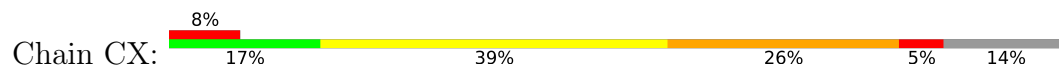




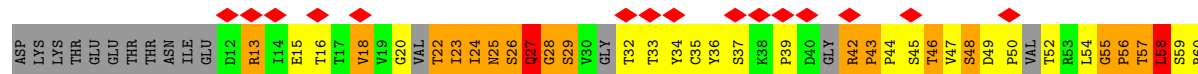
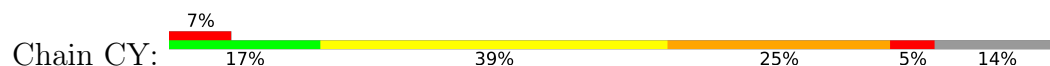
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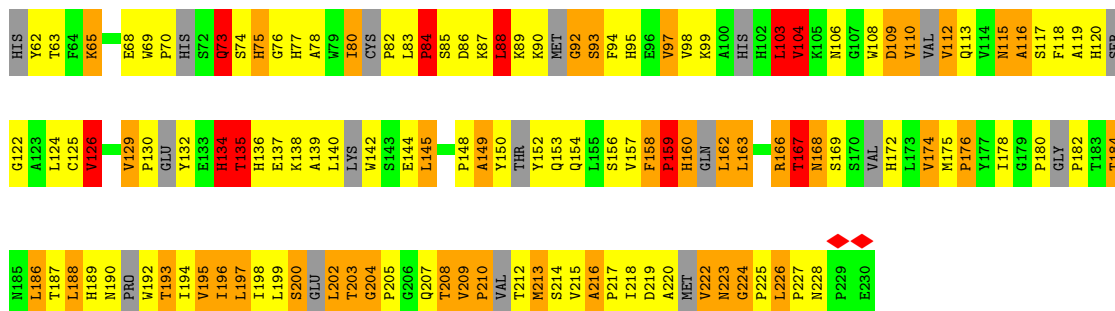


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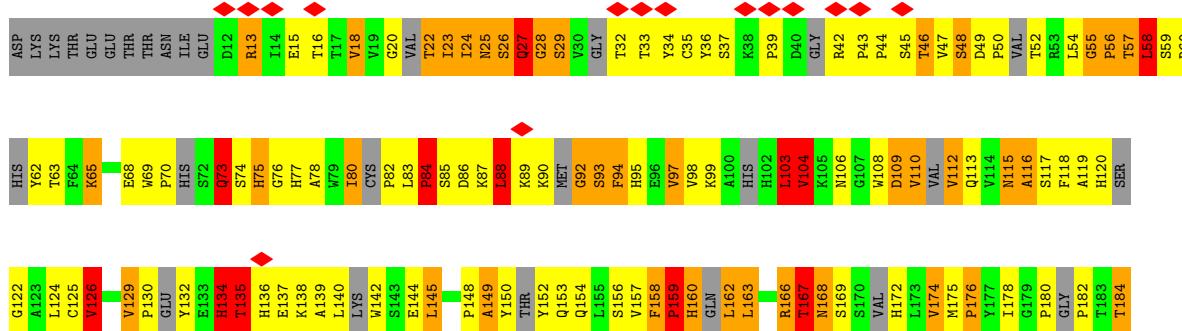
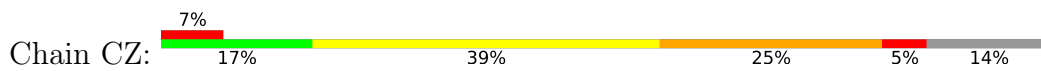


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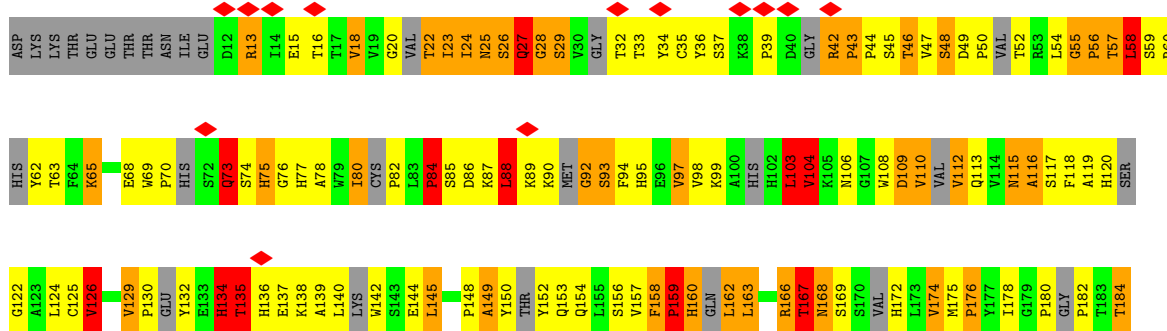
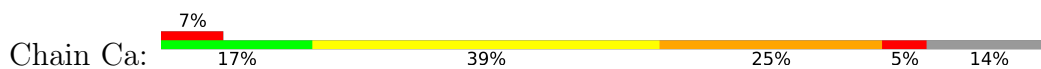




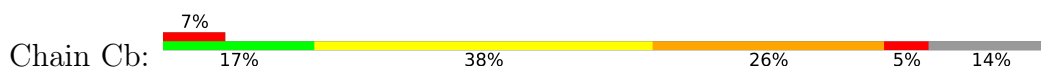
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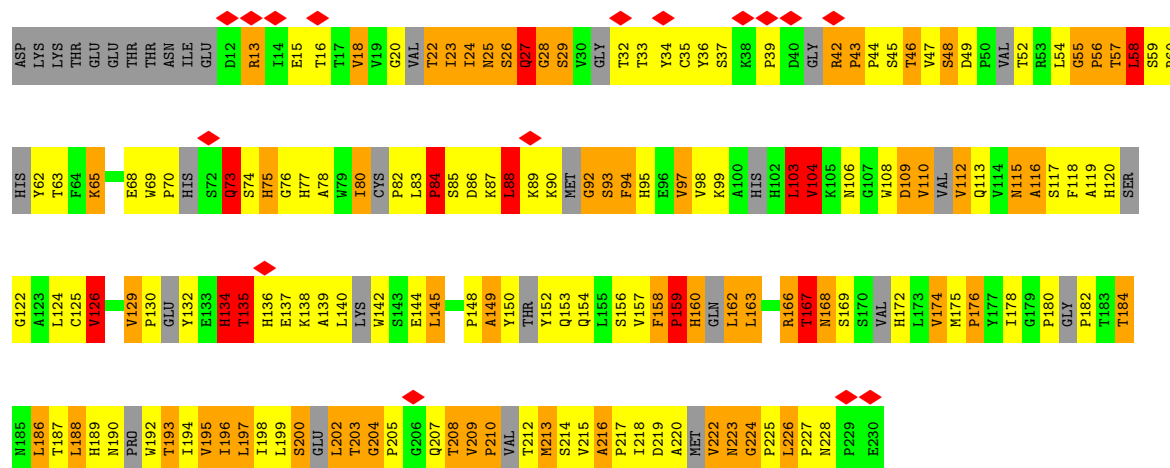


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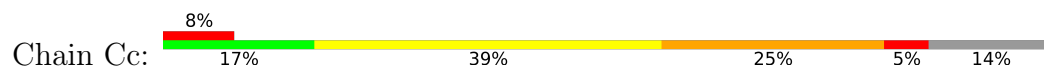


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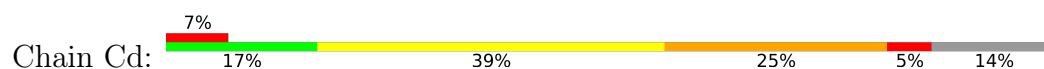




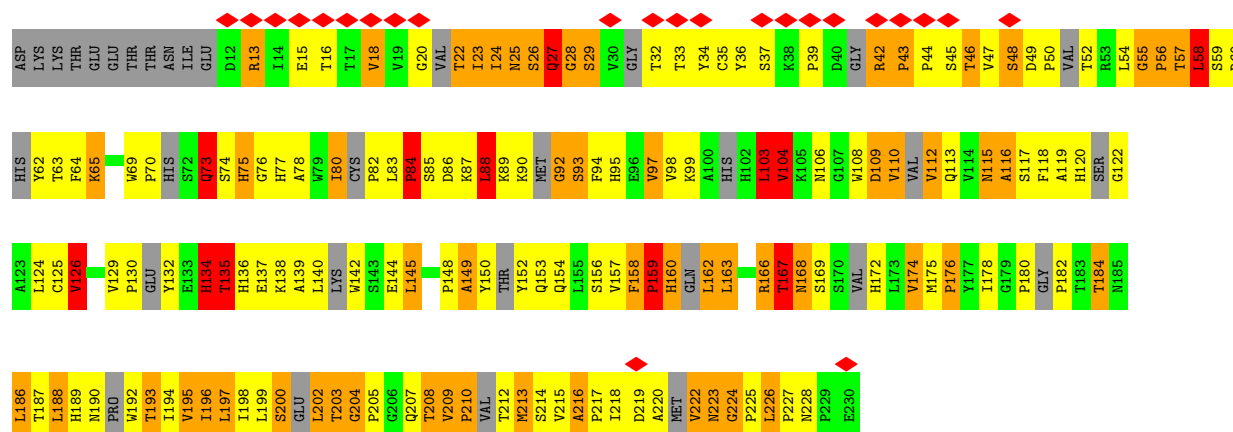
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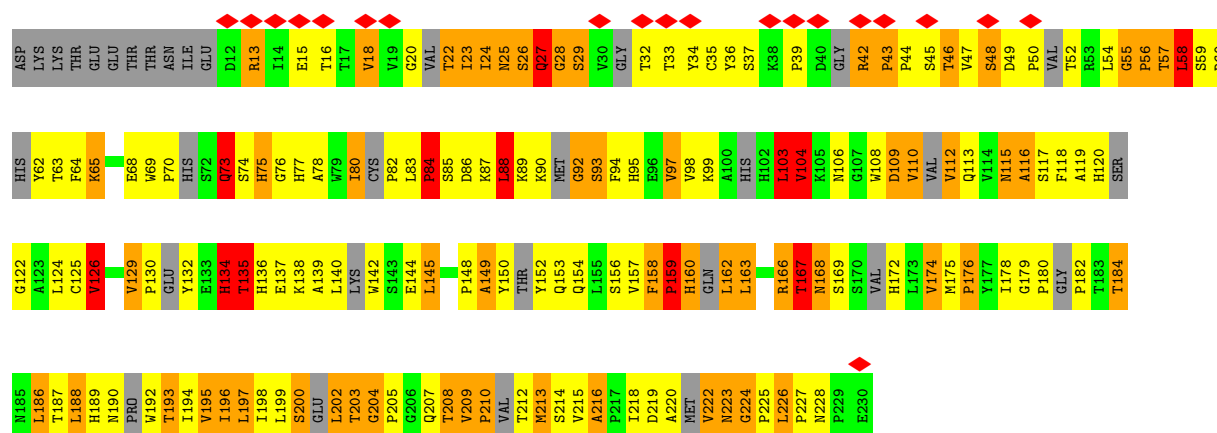
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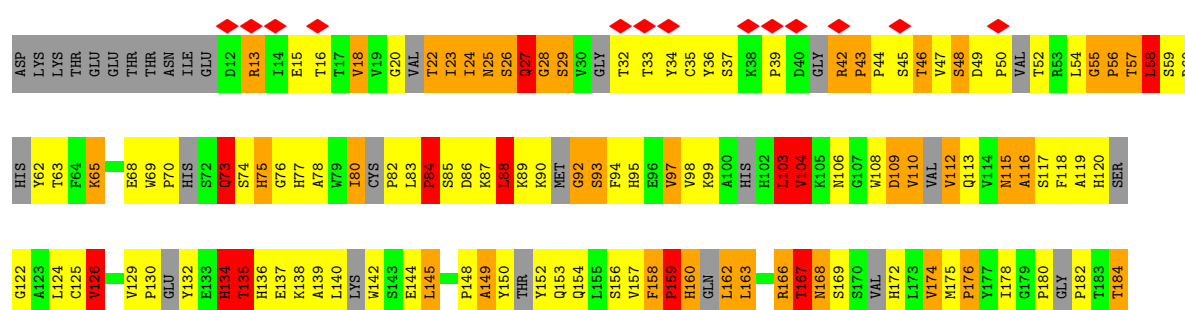
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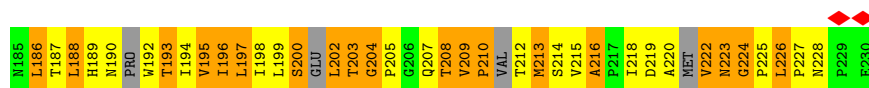


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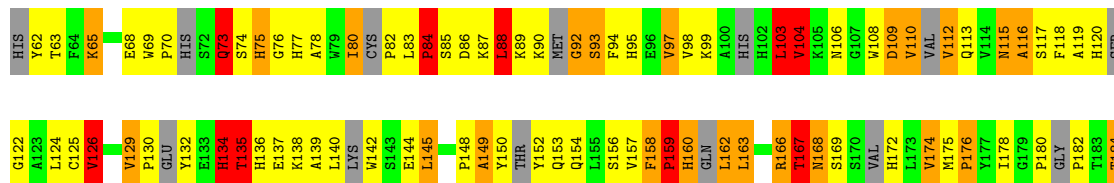
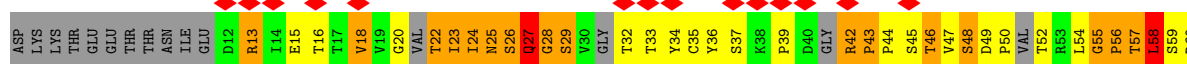
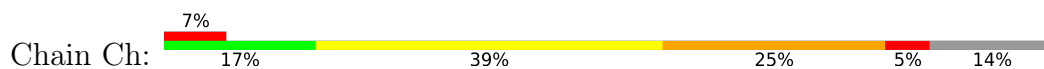


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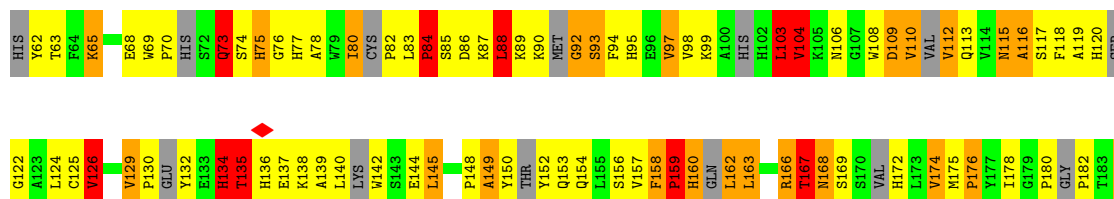
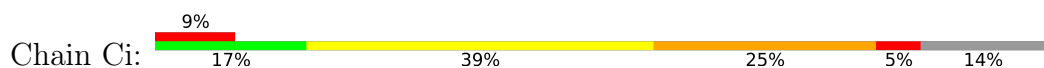




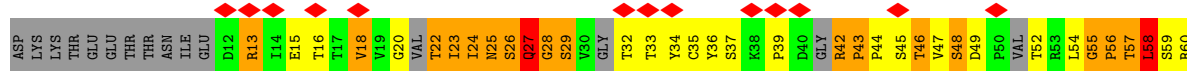
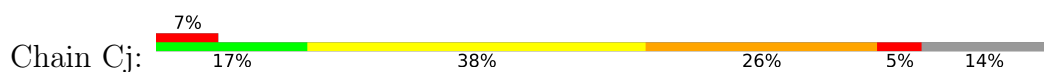
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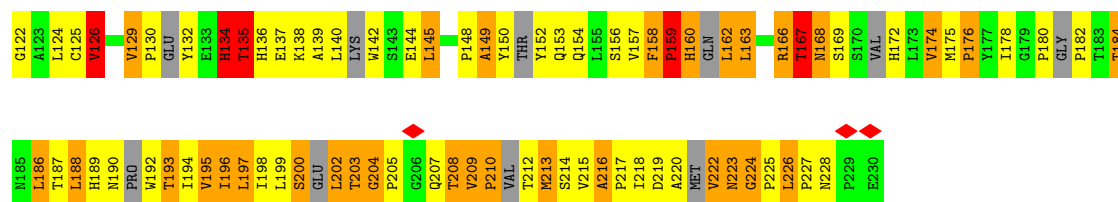


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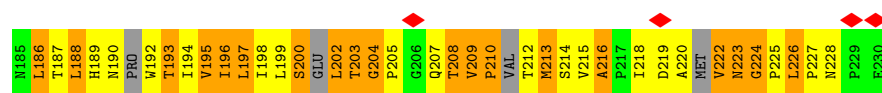
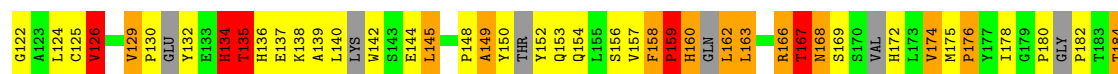
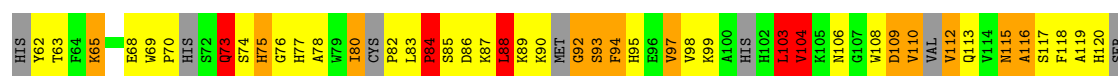
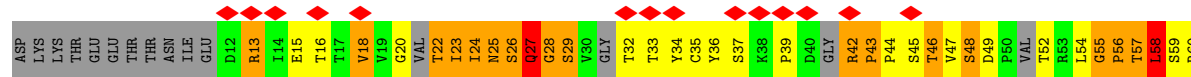
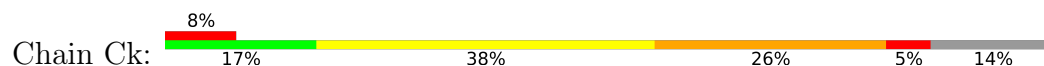


• Molecule 2: EQUINE RHINITIS A VIRUS

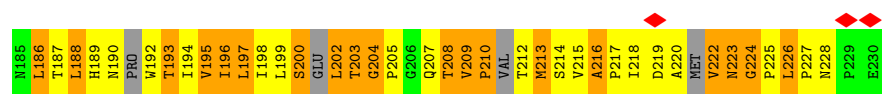
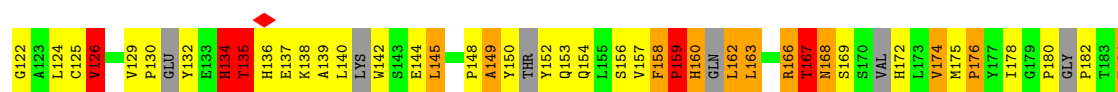
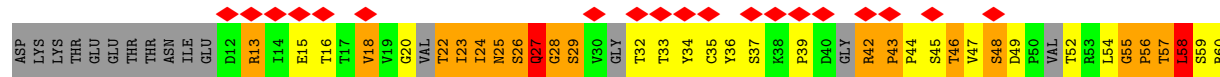
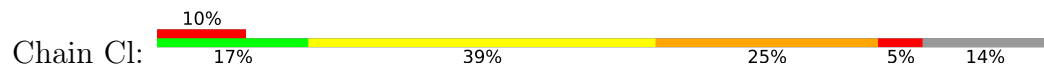




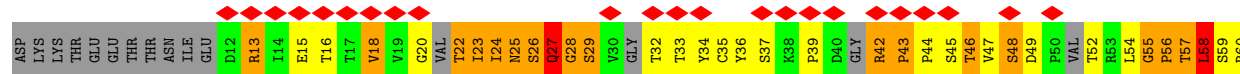
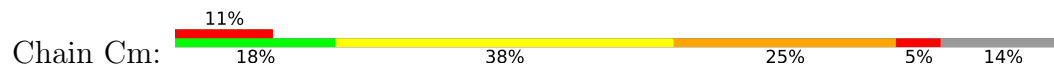
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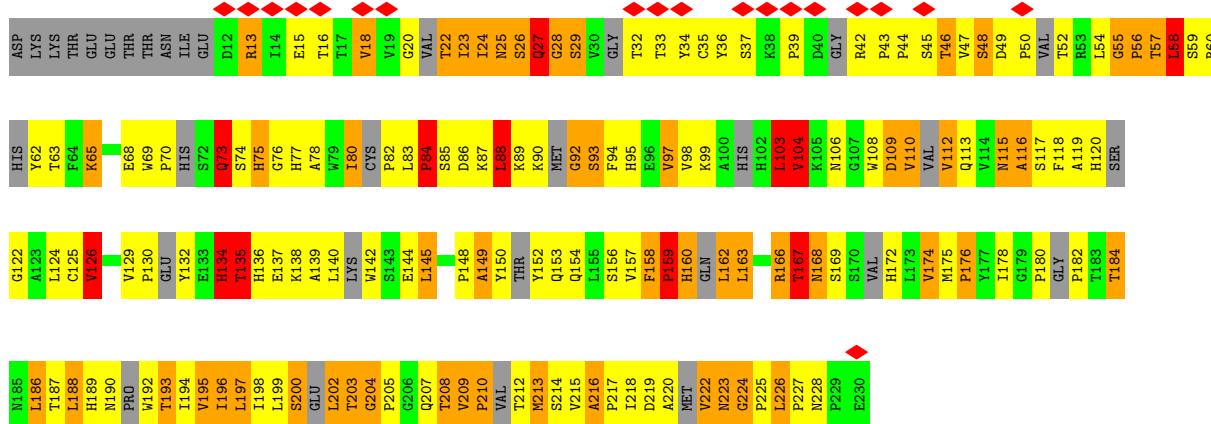
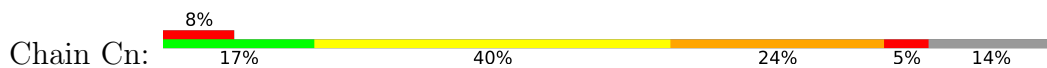
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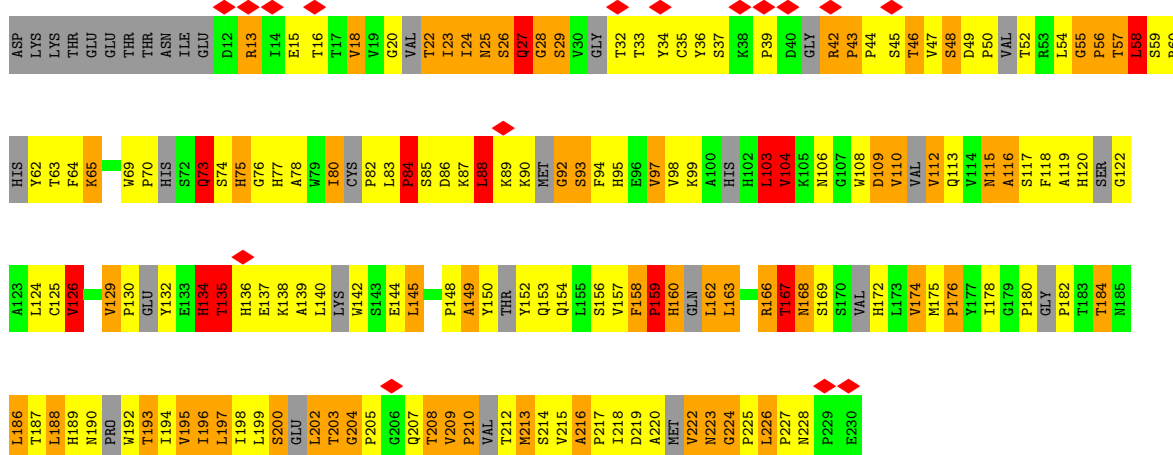
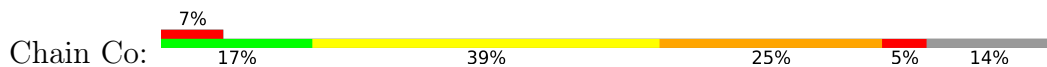
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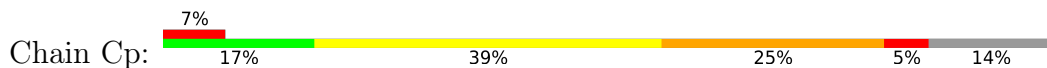
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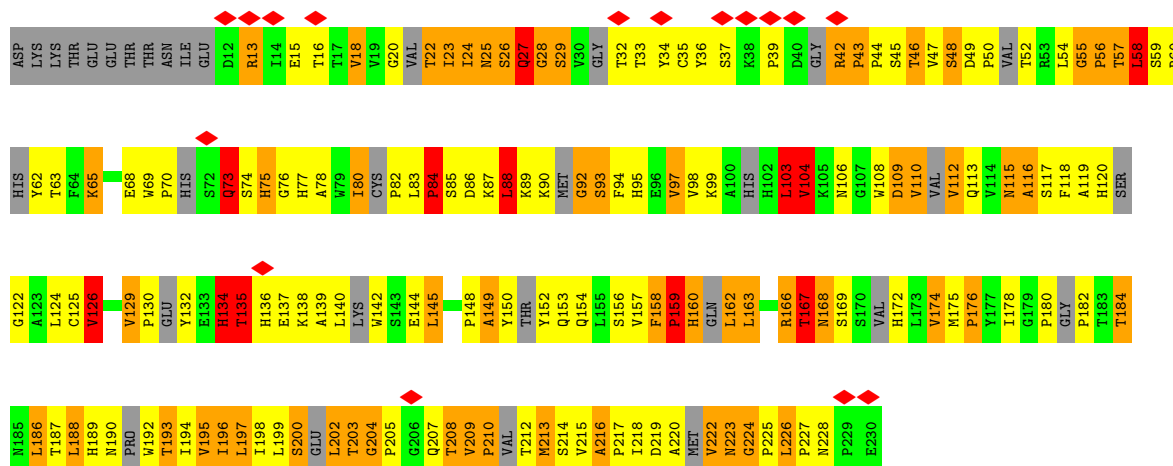


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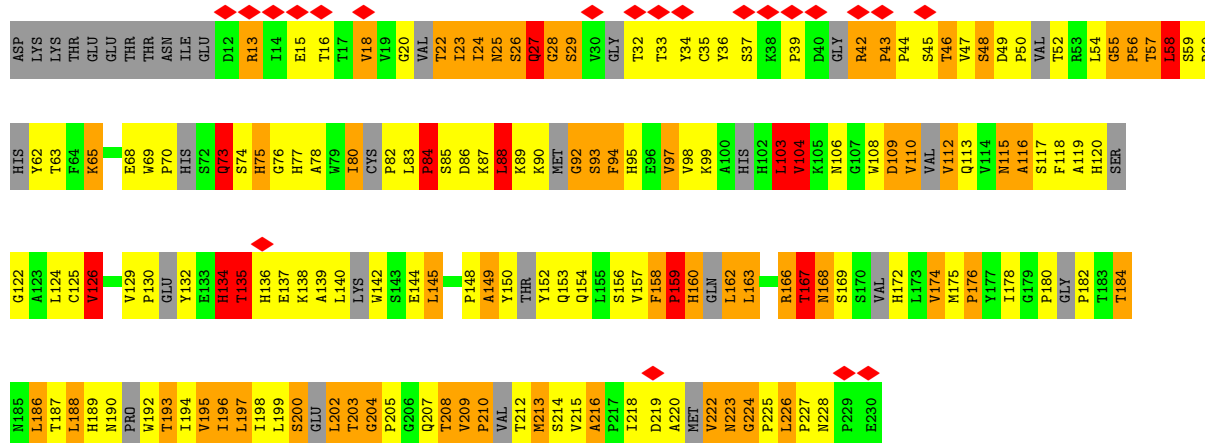
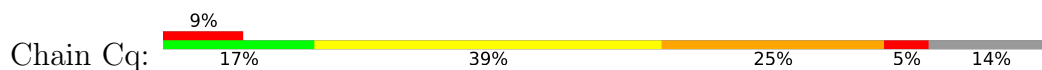


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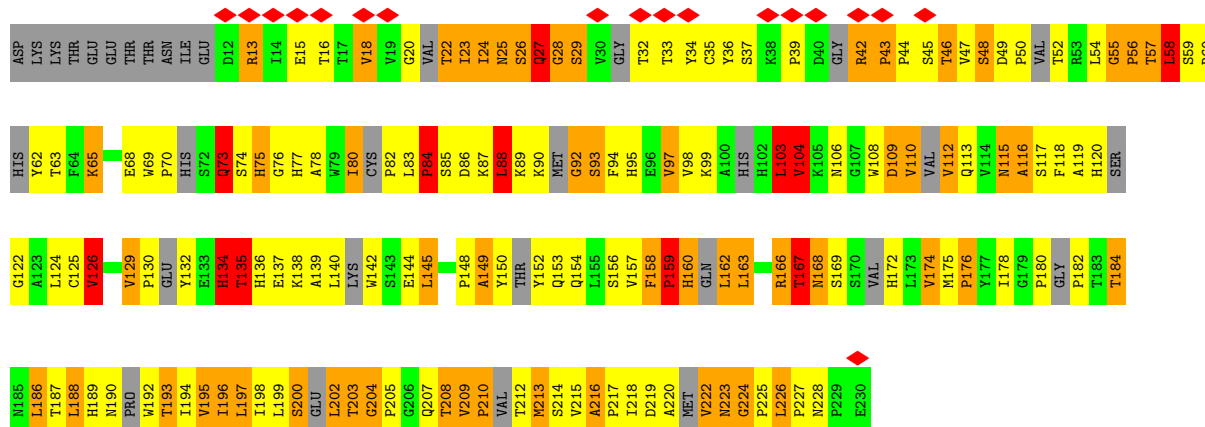
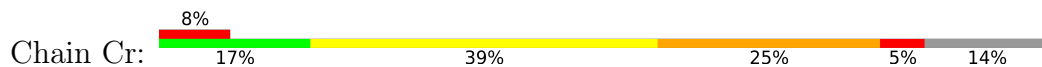




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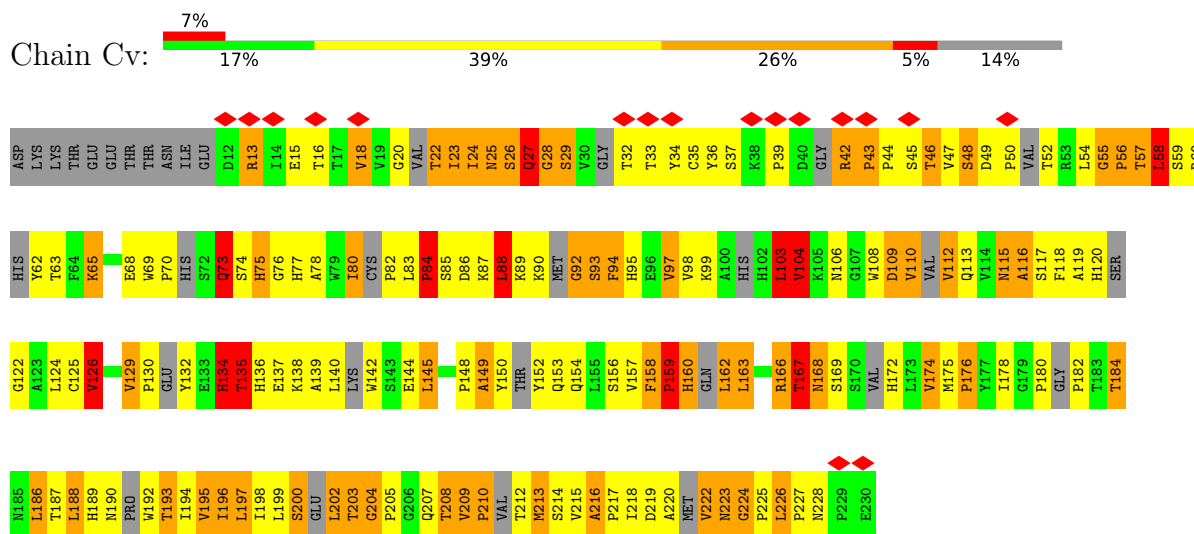


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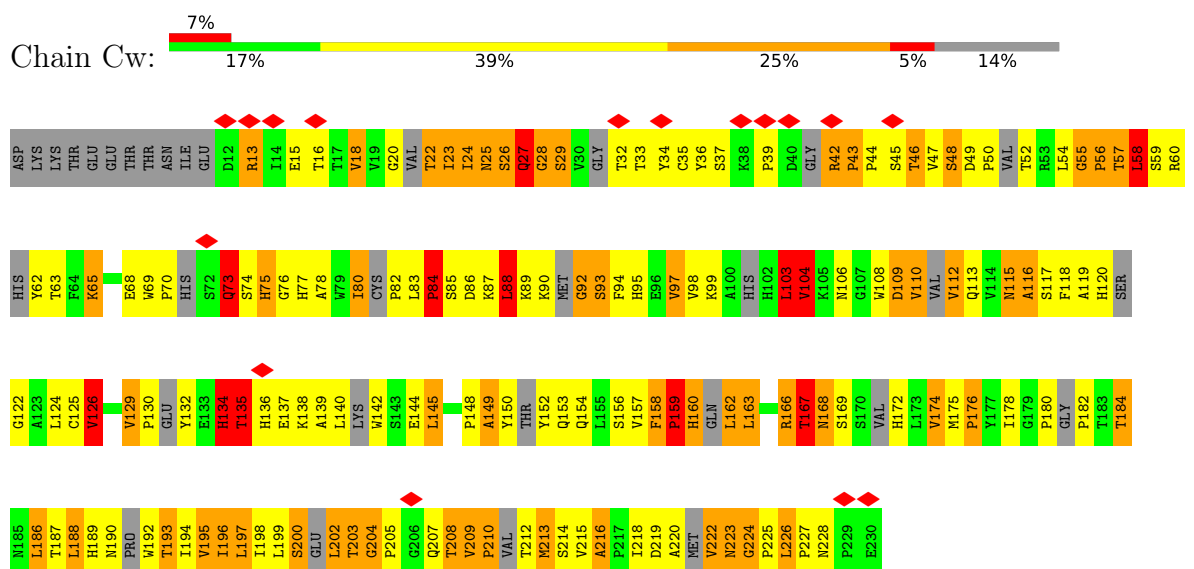


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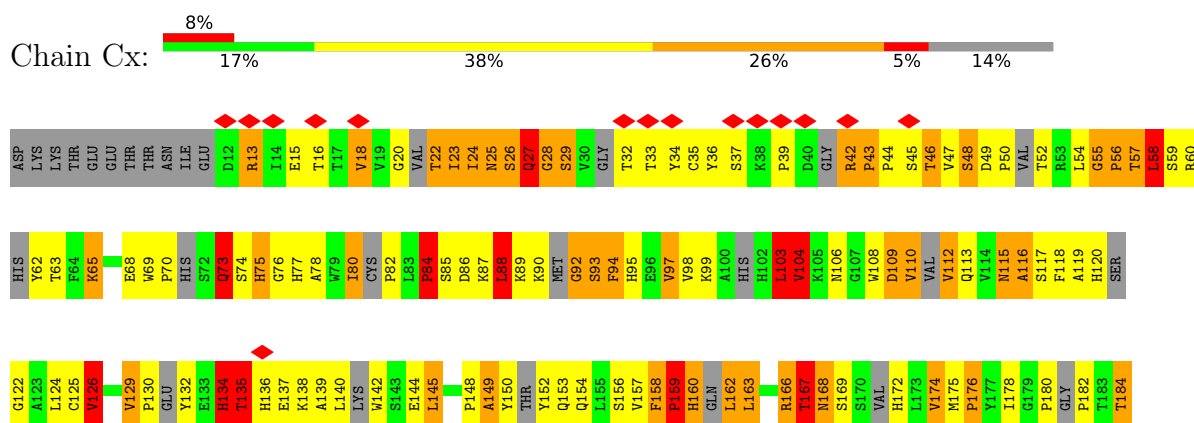
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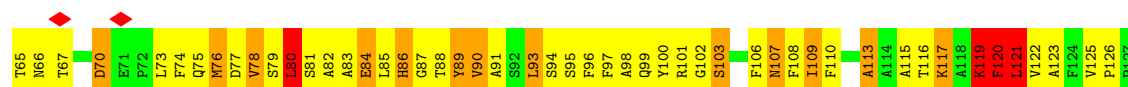


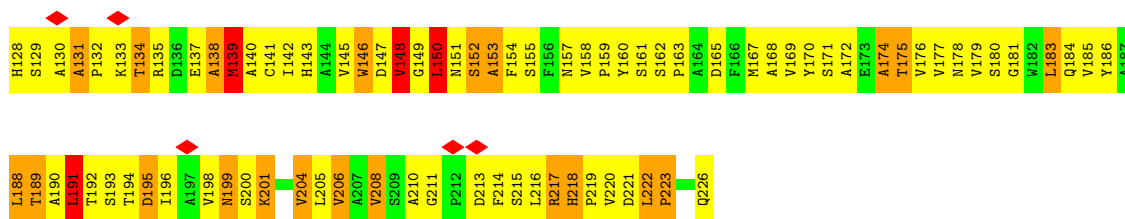
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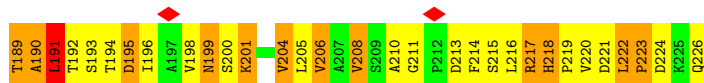
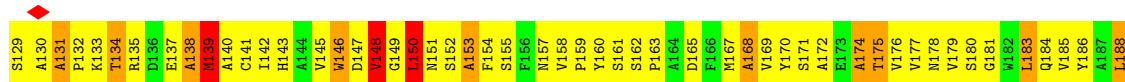
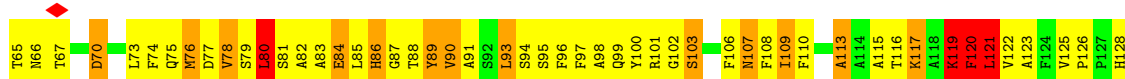
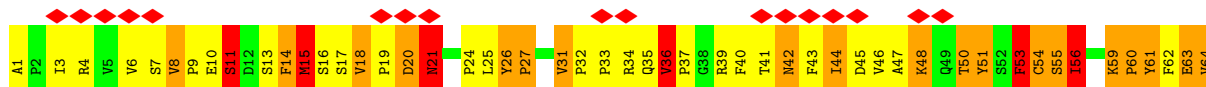
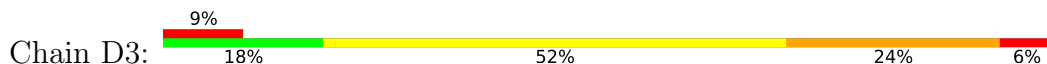
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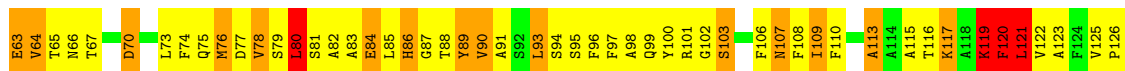
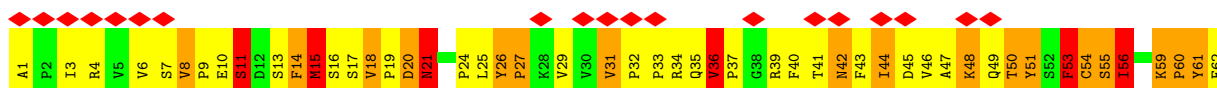
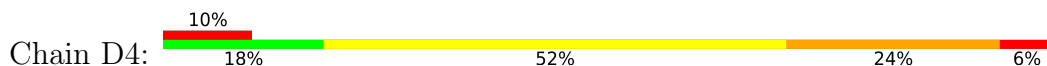




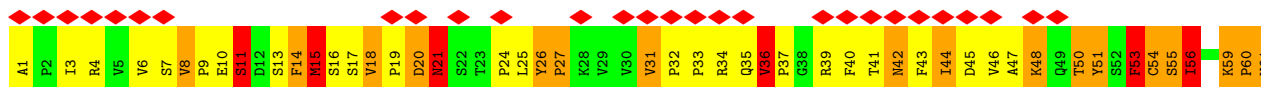
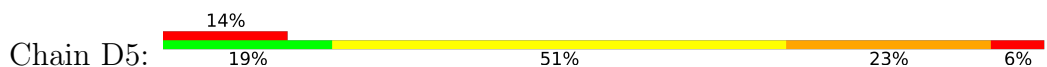
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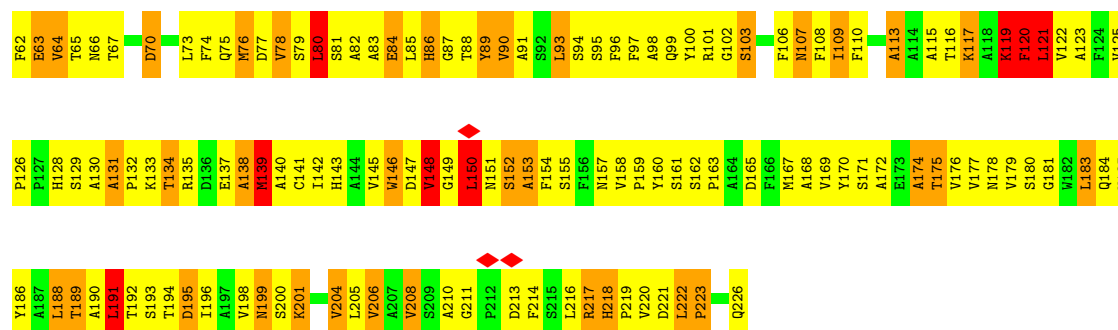


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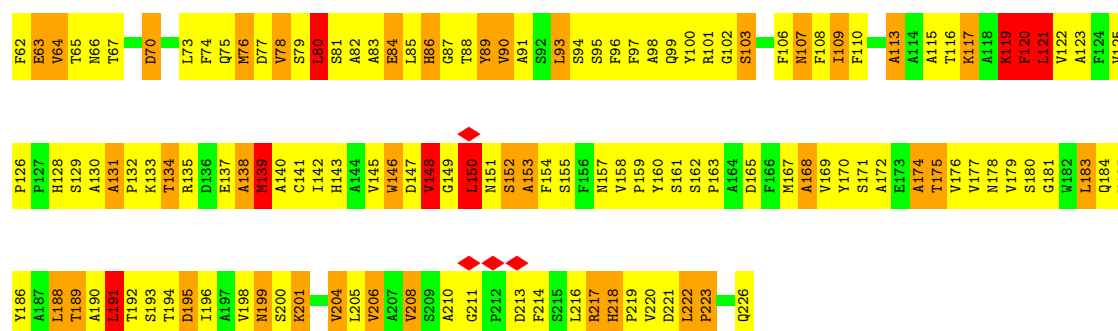
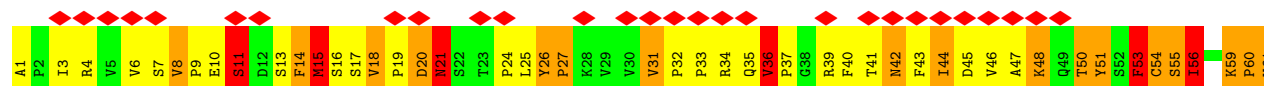
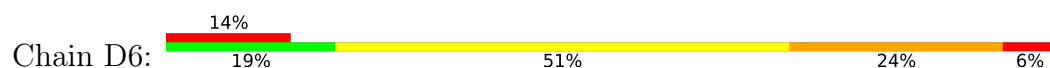


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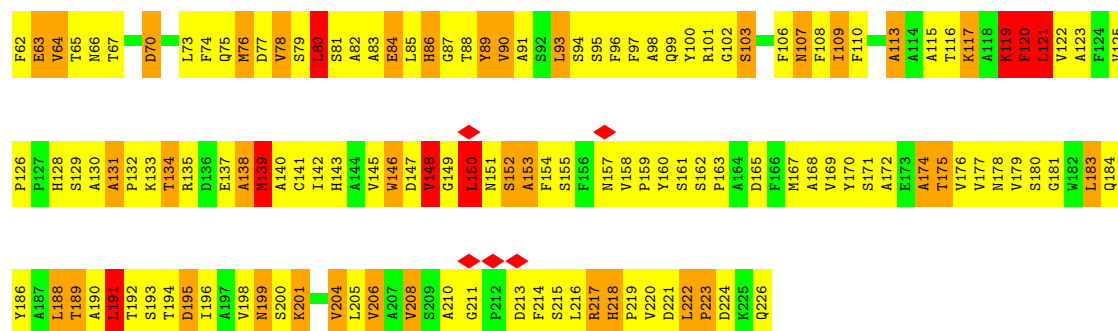
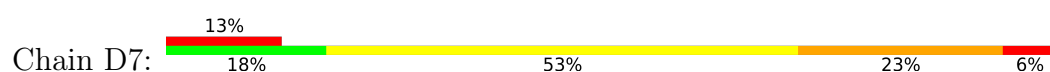




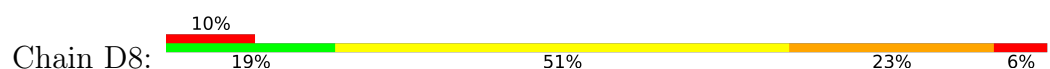
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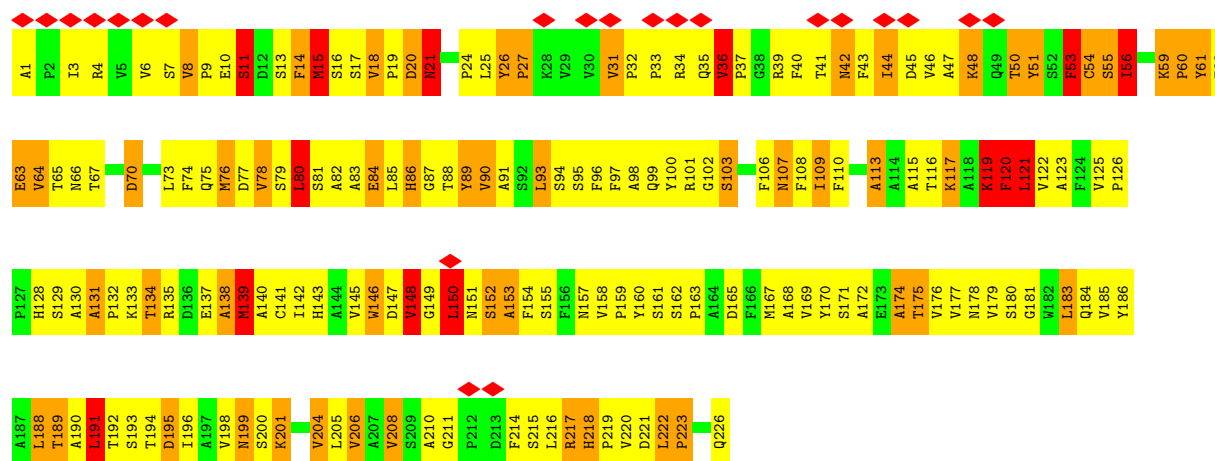


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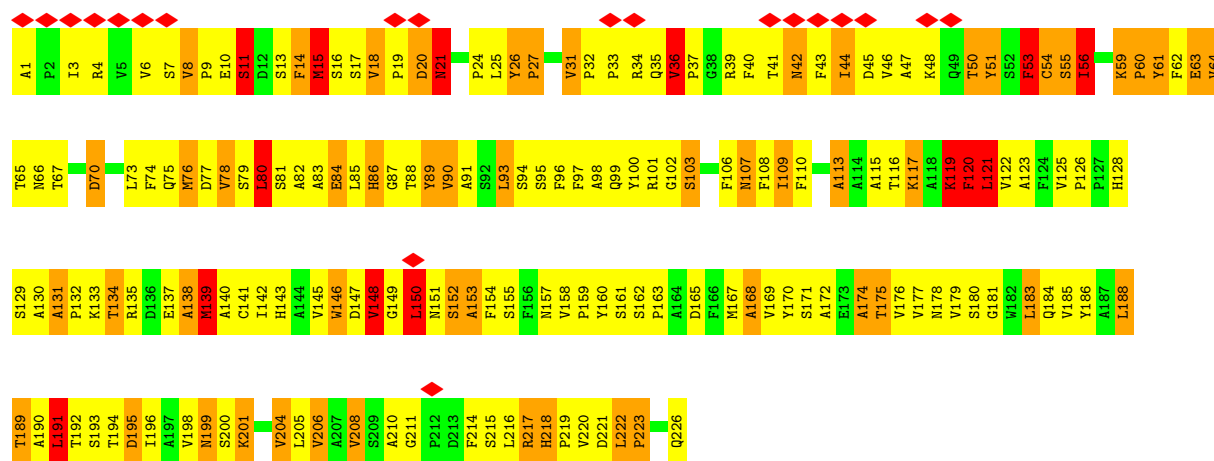
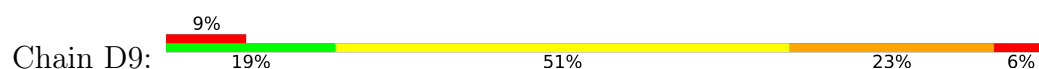


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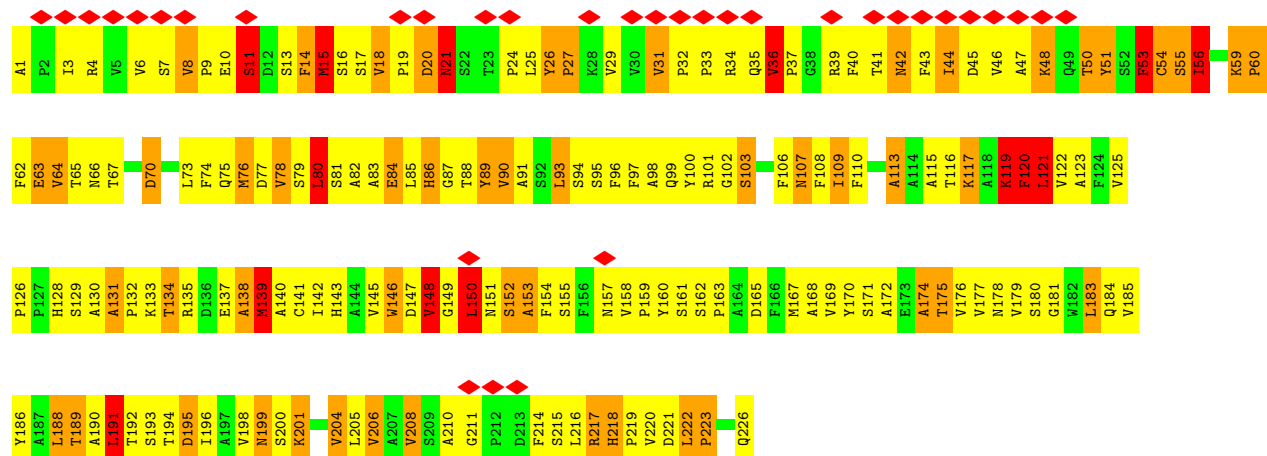
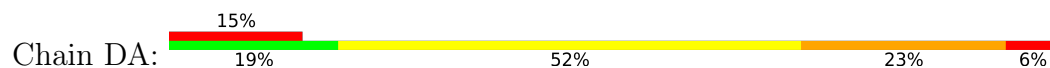




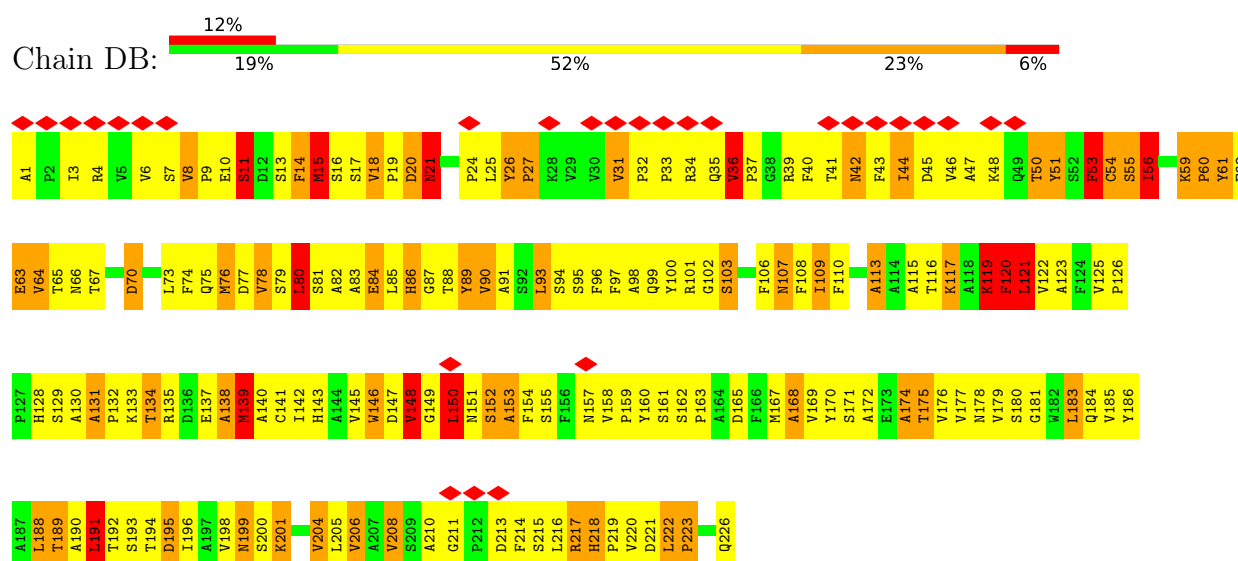
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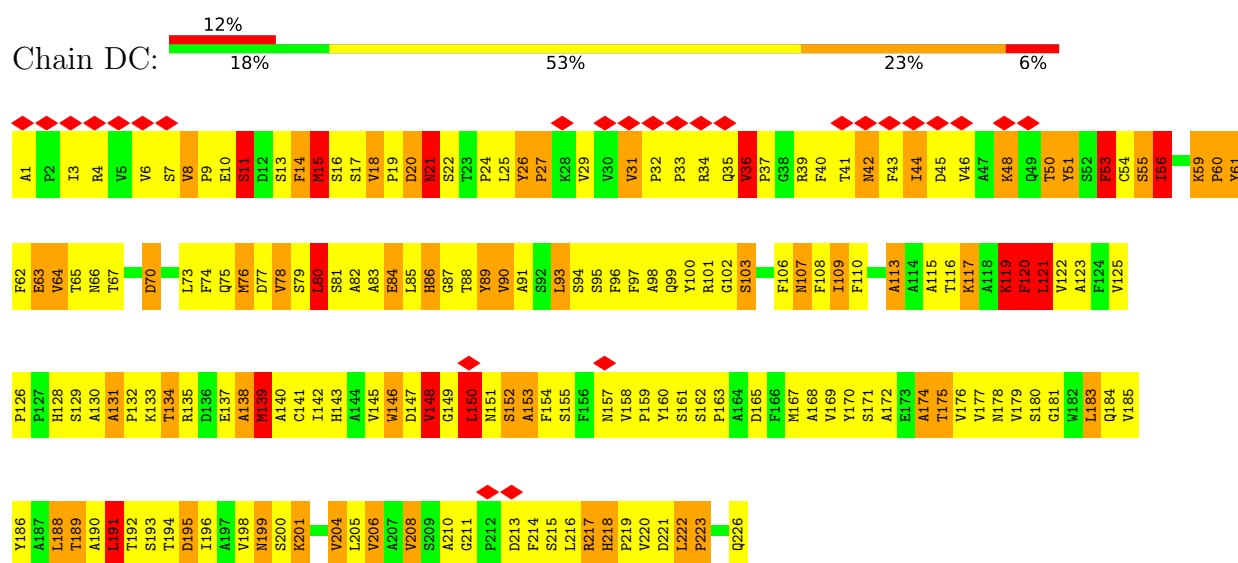
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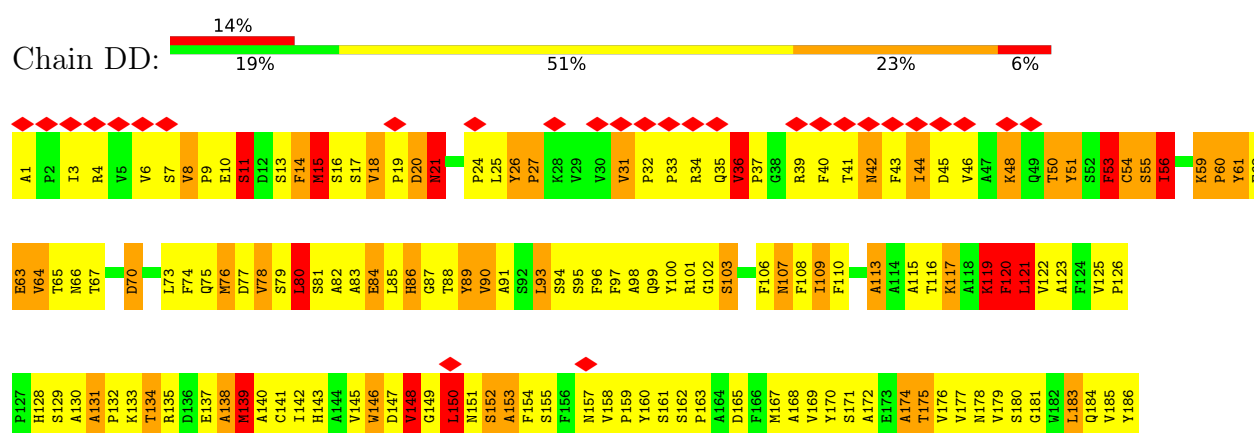
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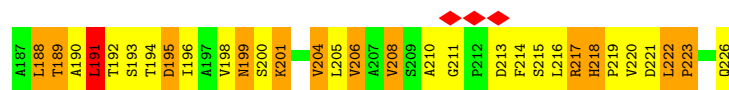


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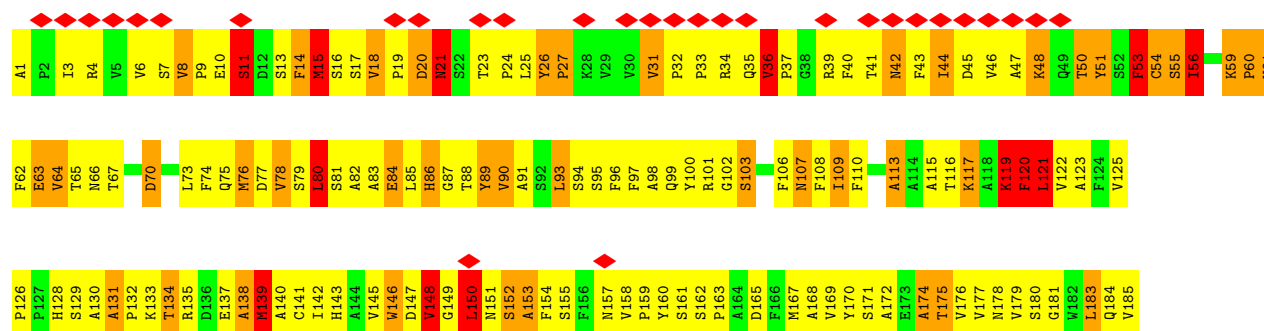
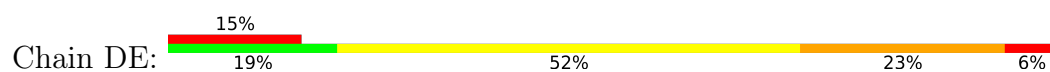


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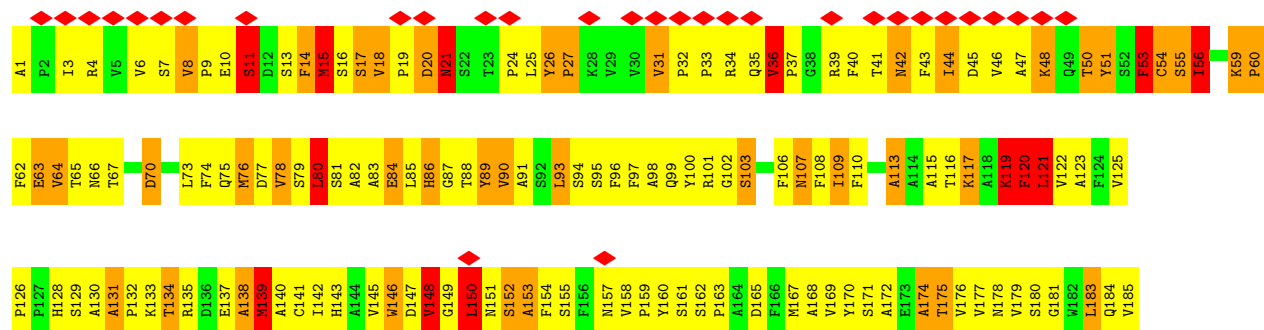
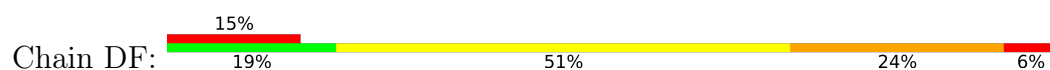




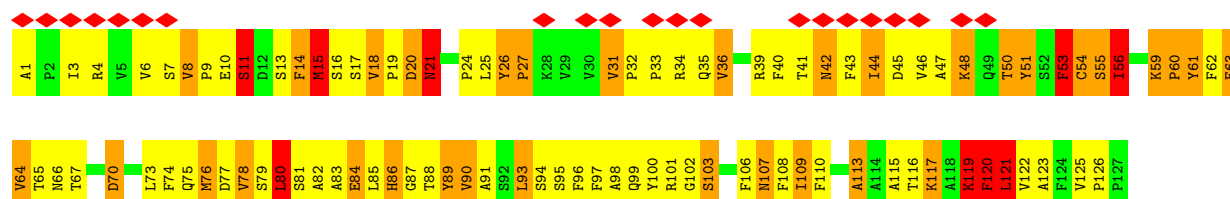
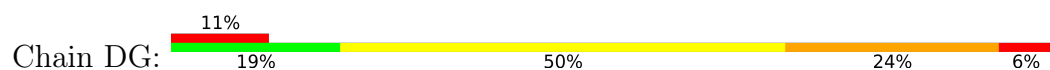
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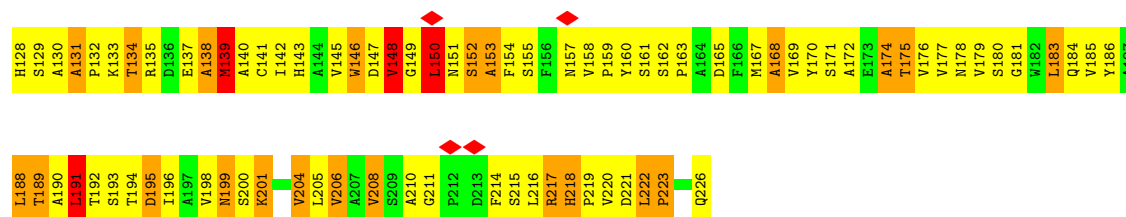


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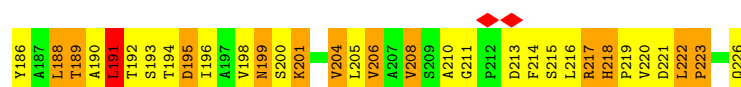
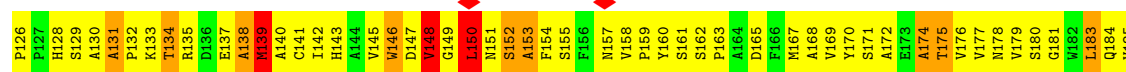
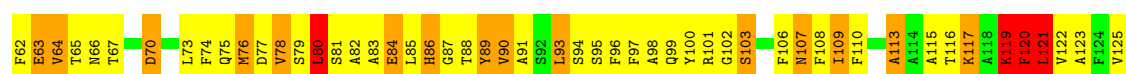
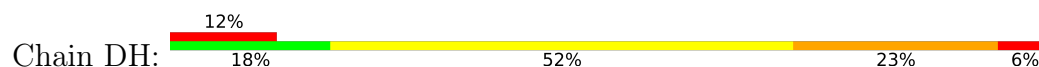


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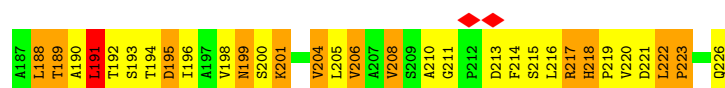
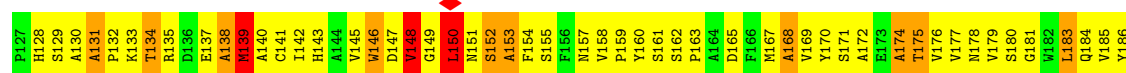
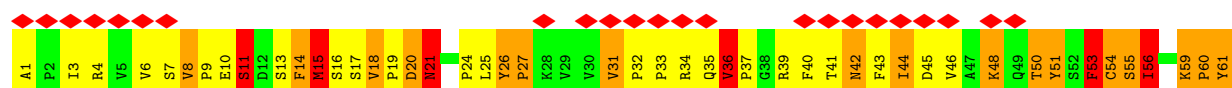
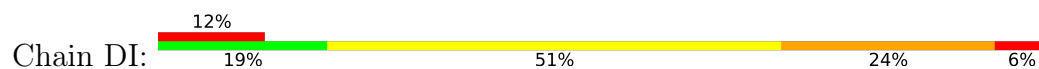




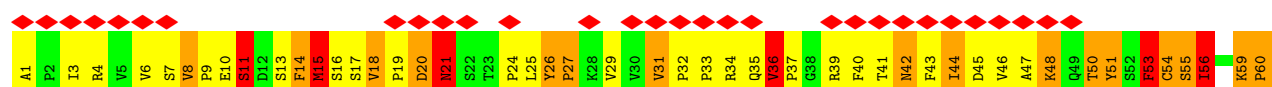
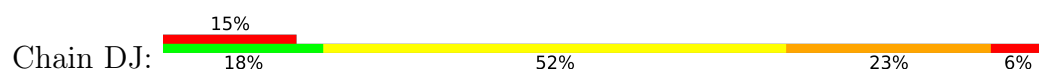
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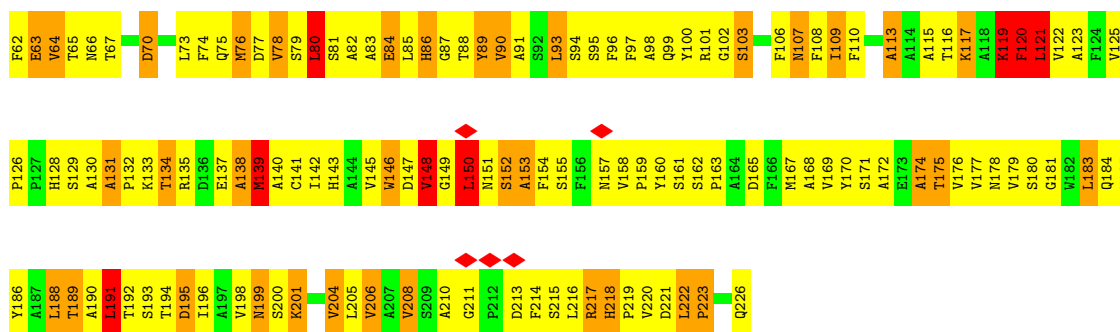


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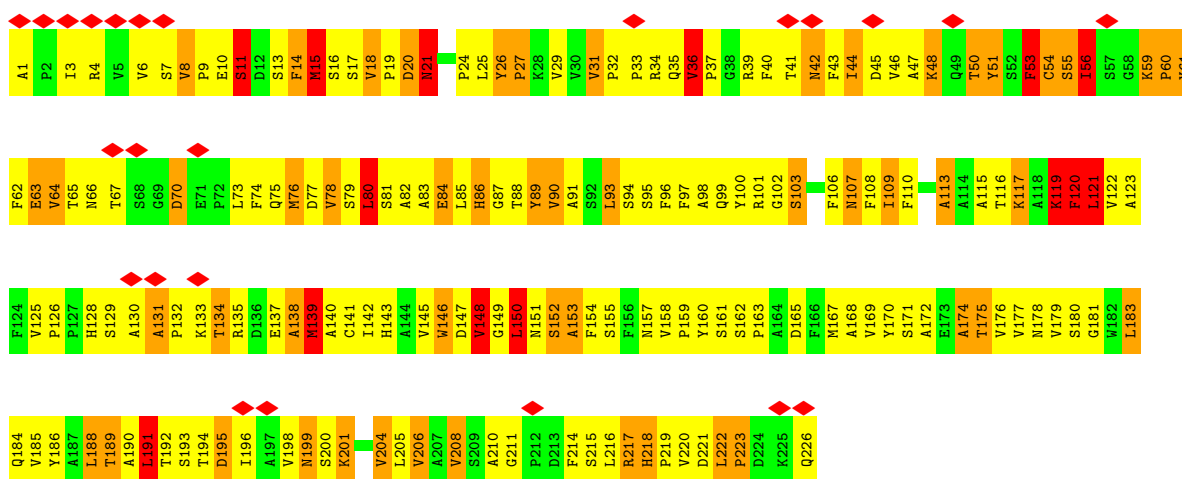
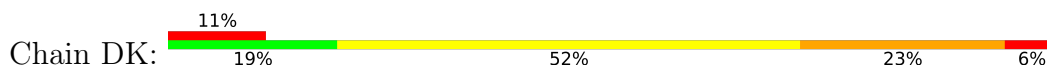


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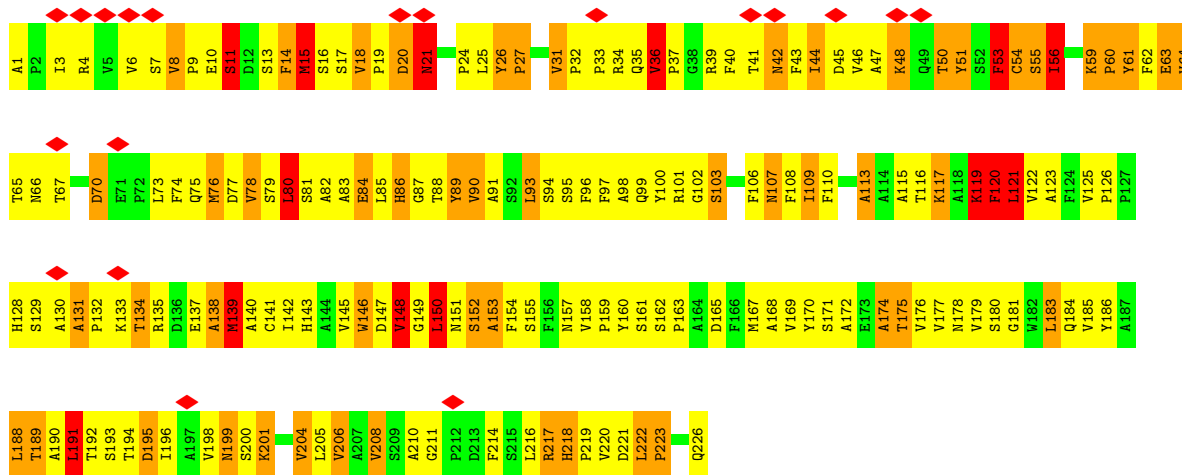
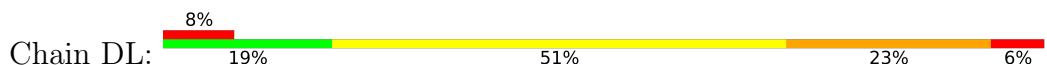




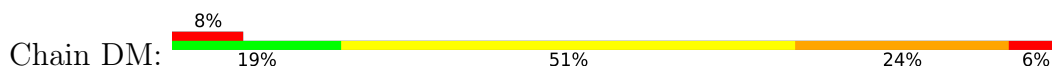
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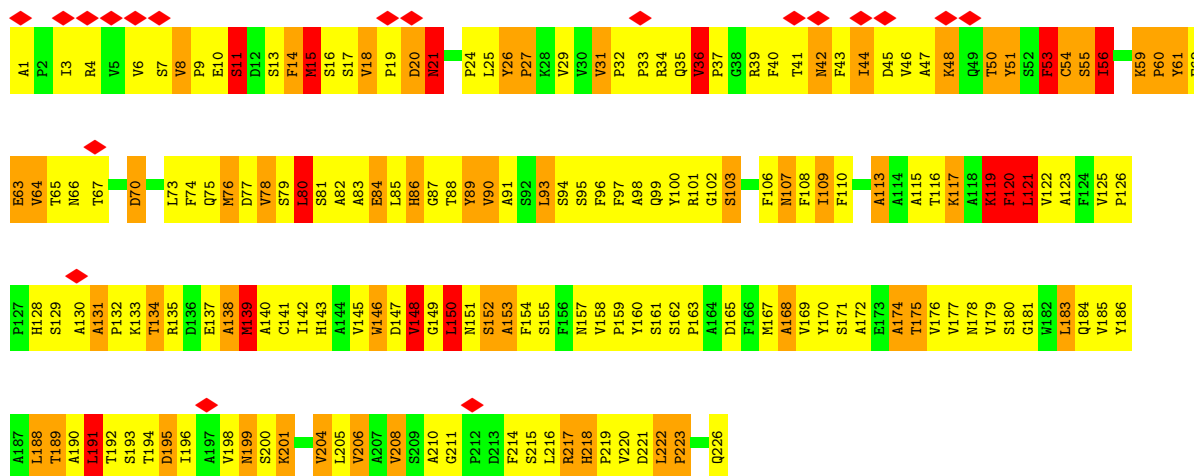


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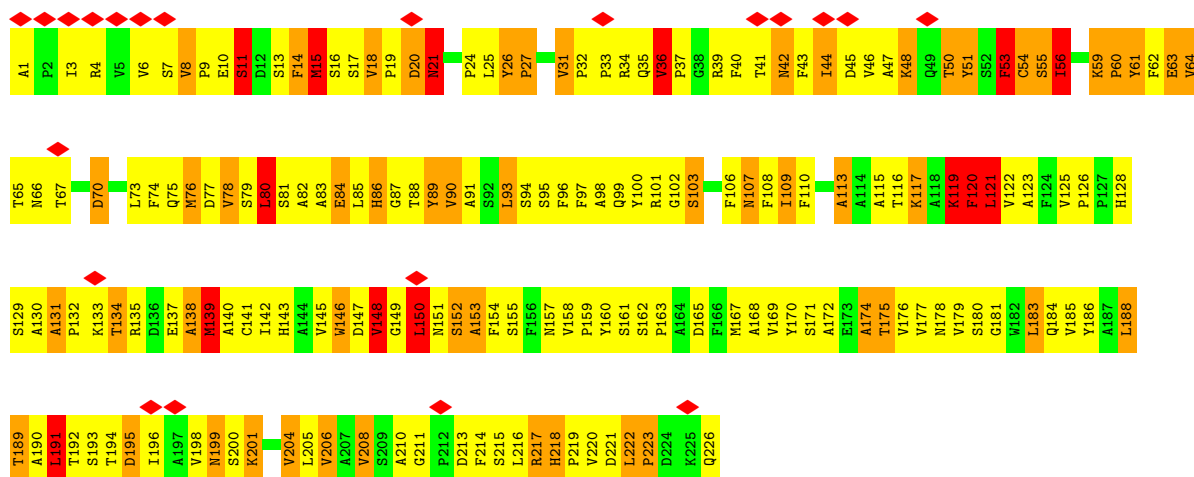
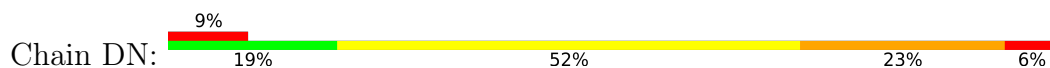


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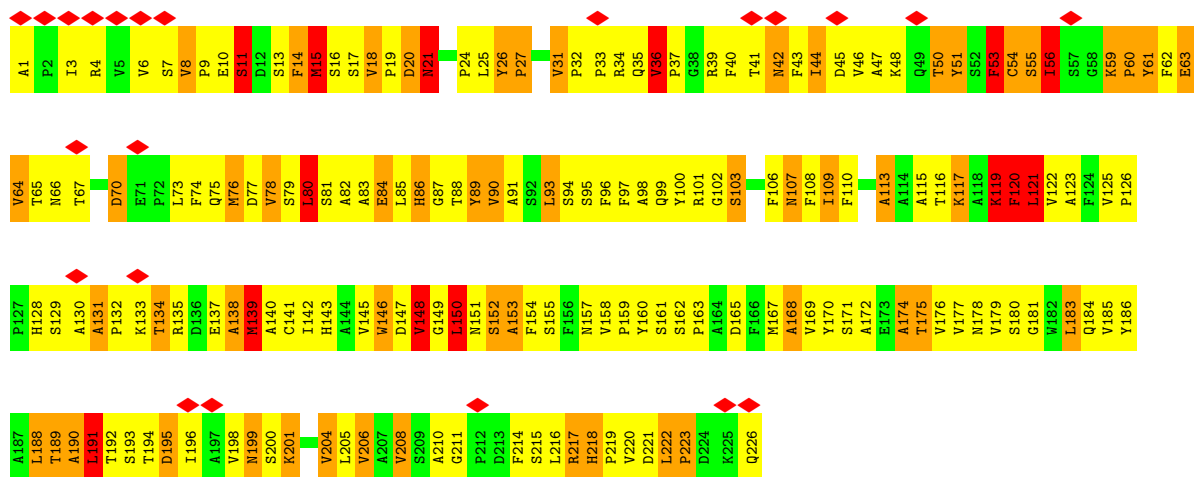
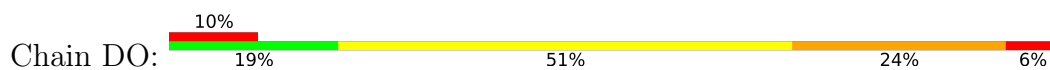




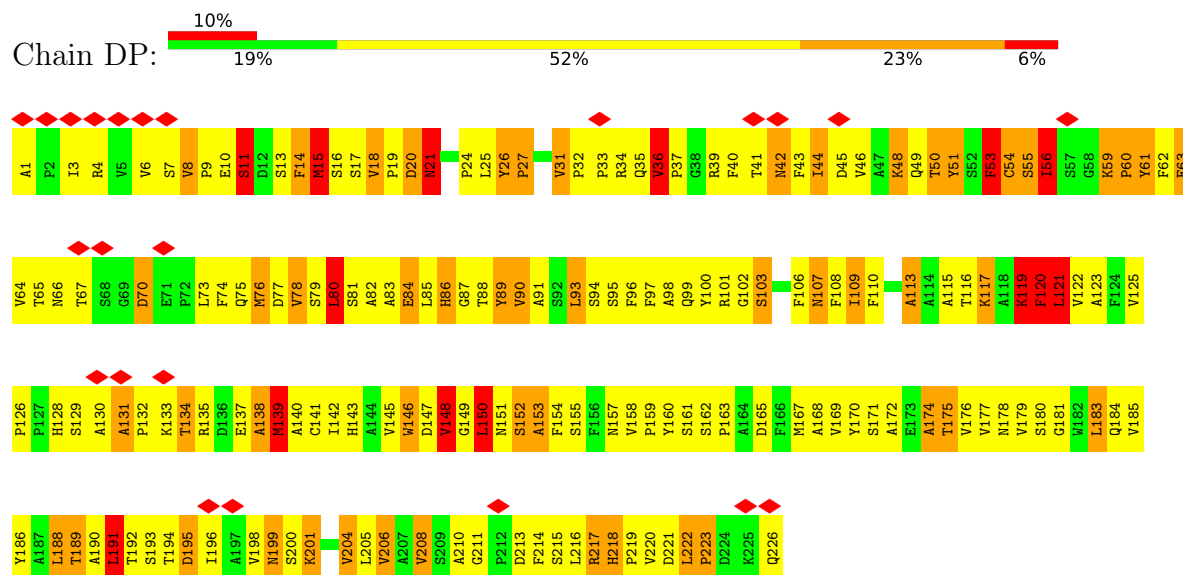
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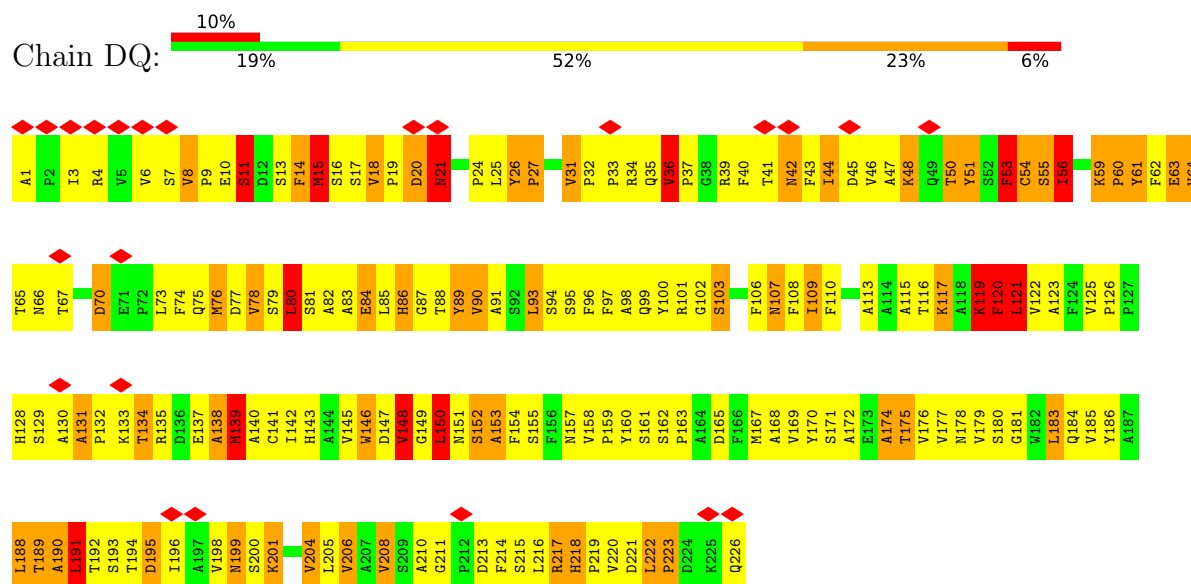
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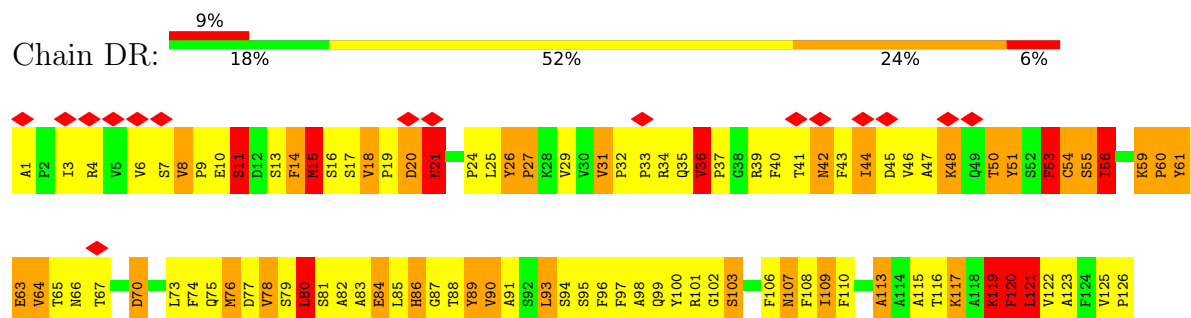
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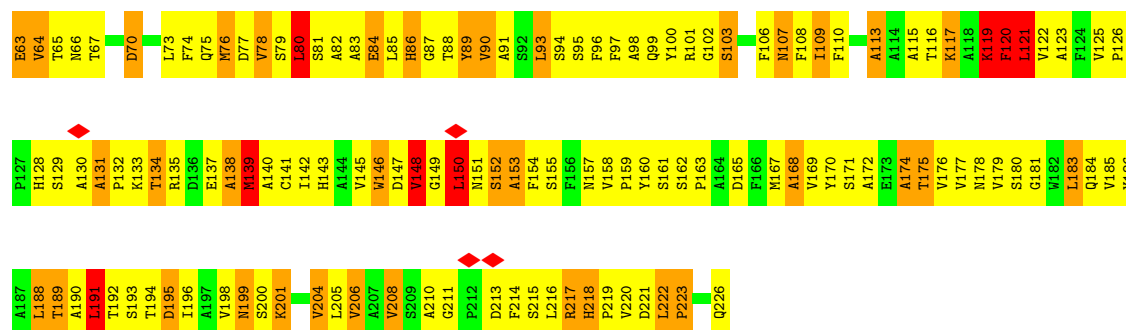
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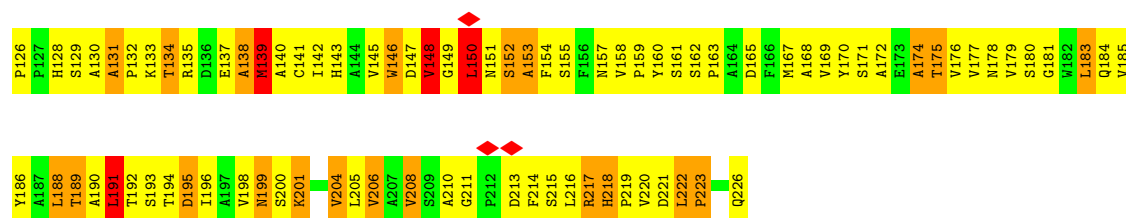
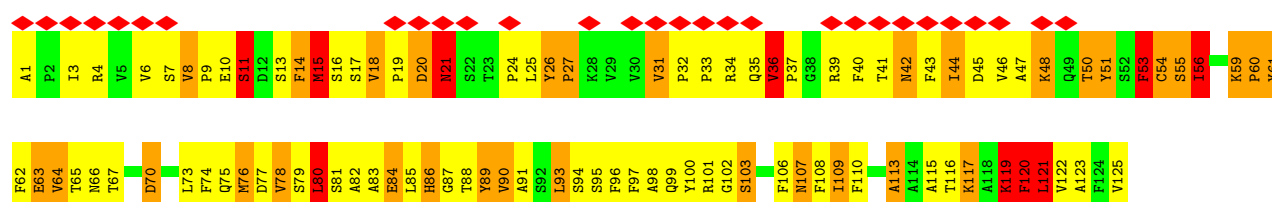
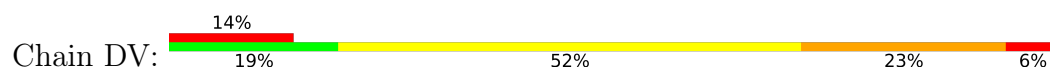
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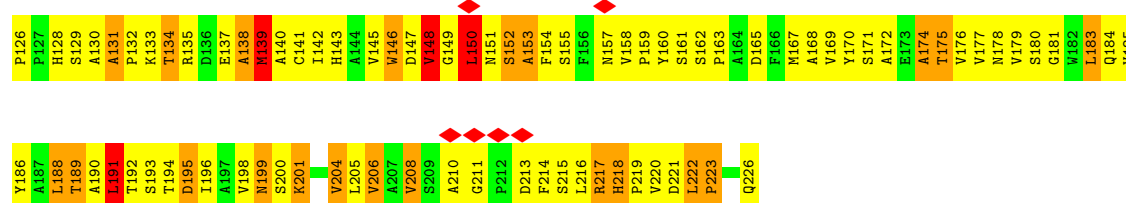
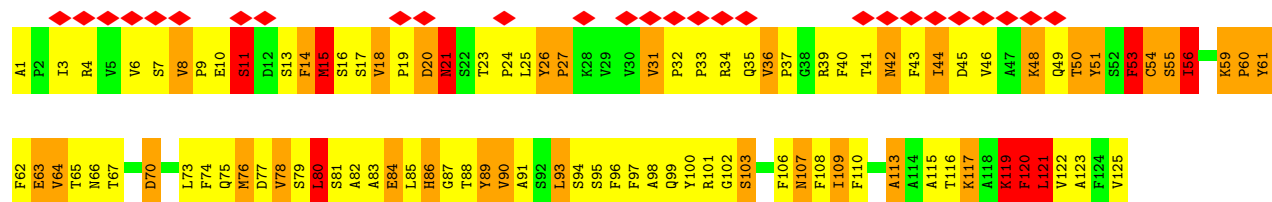
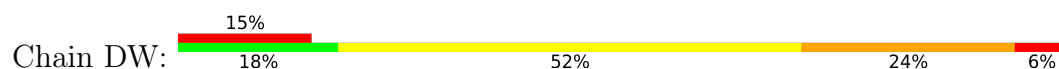




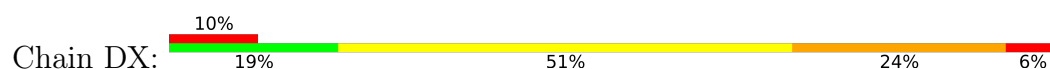
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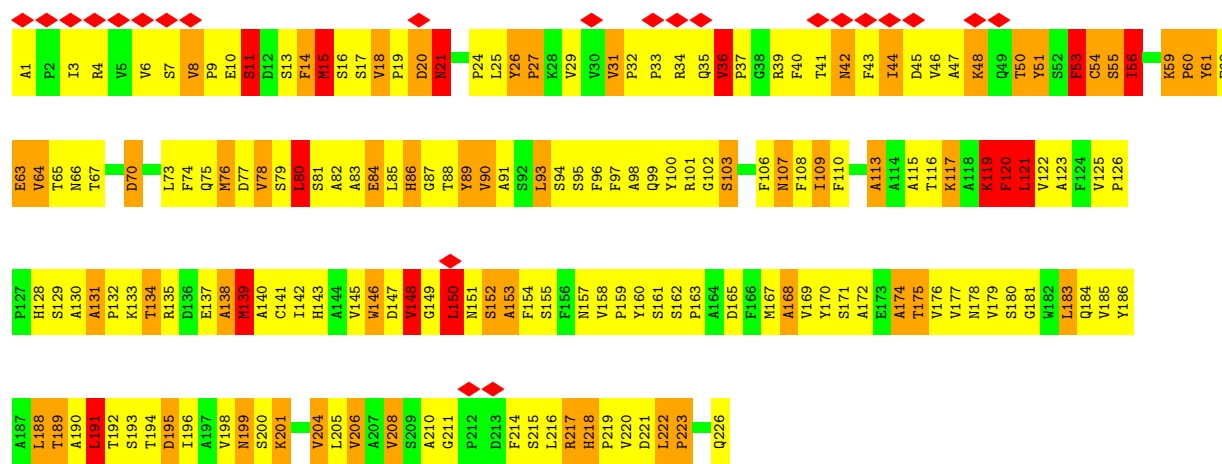


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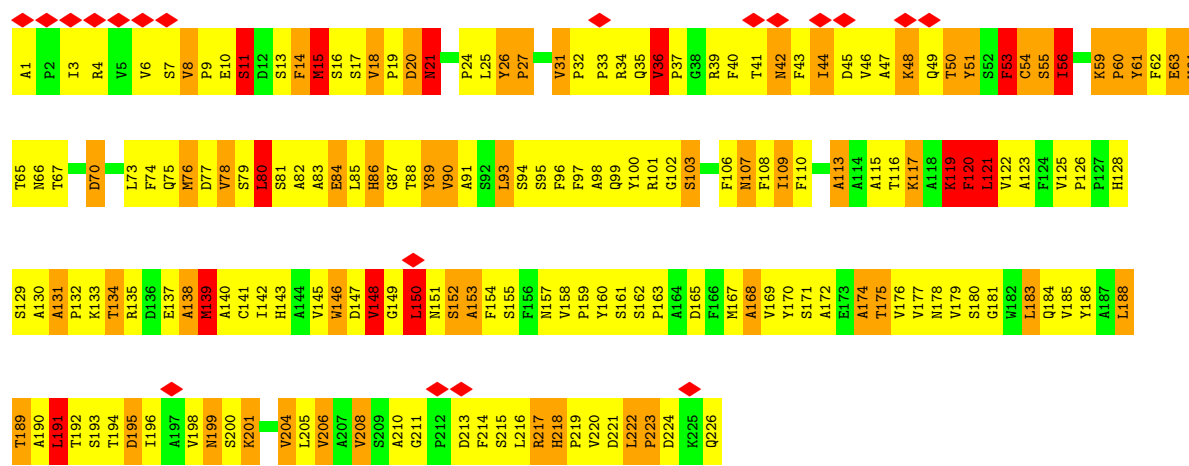
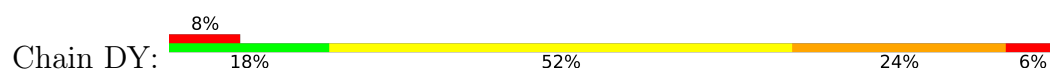


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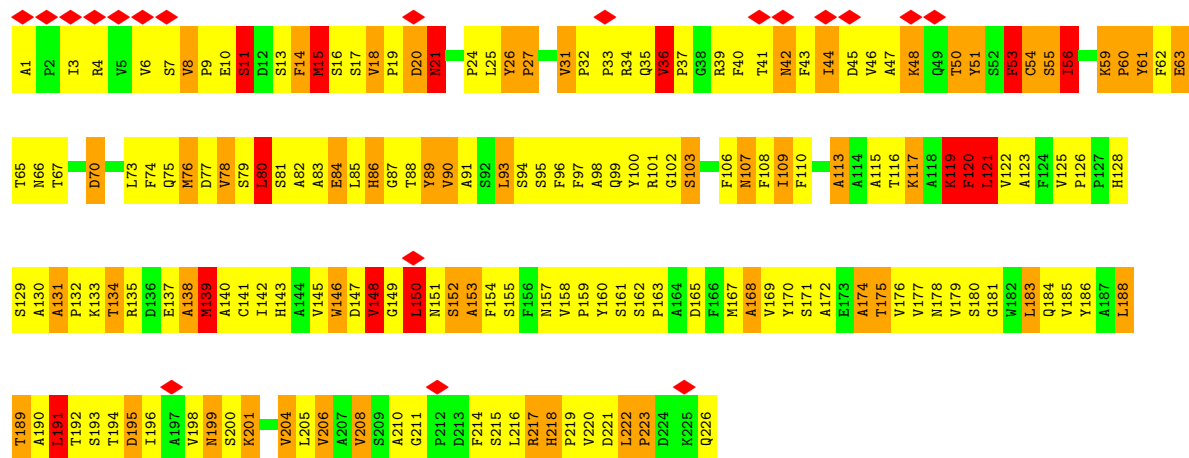
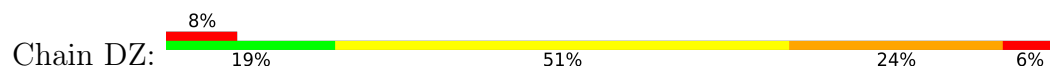




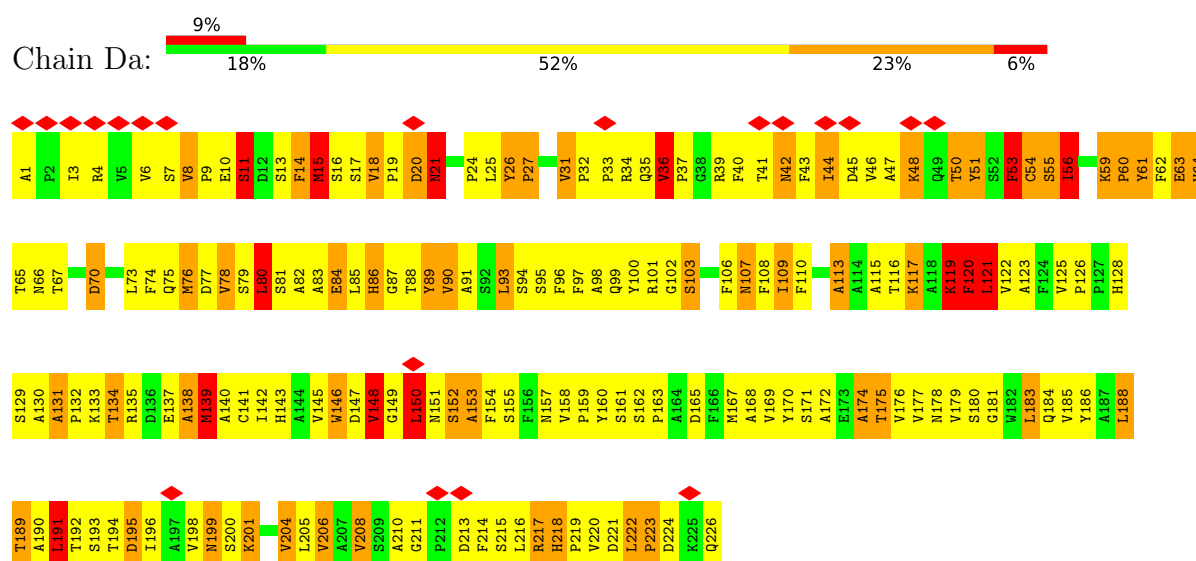
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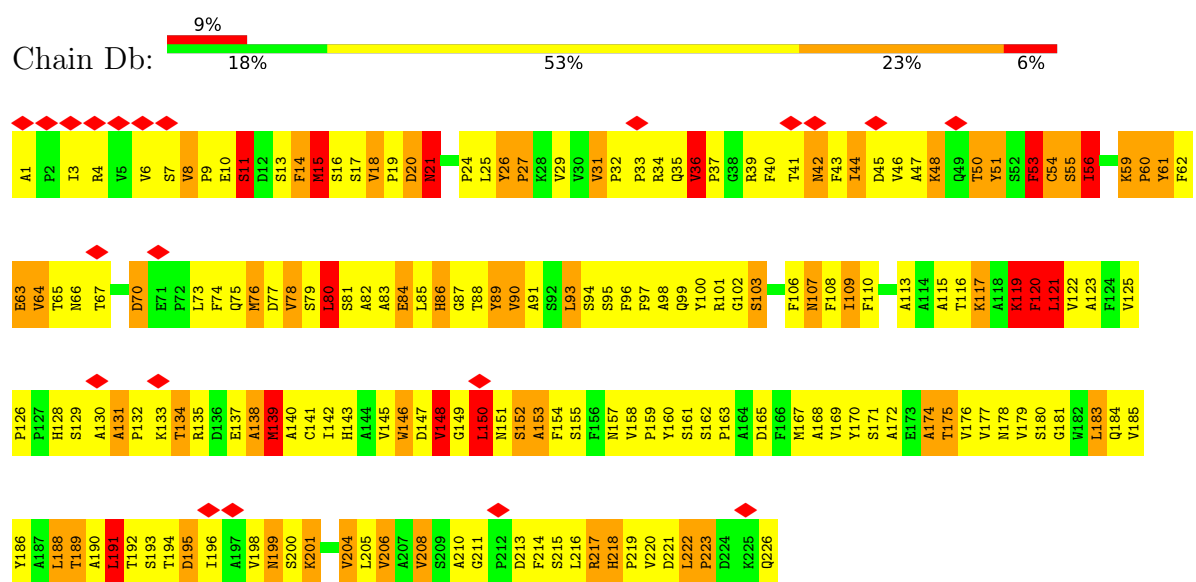
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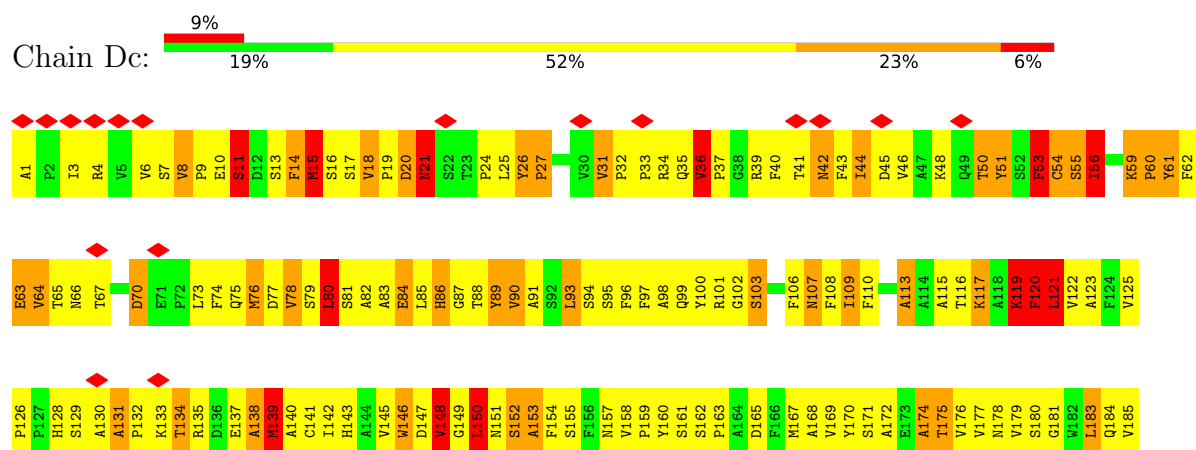
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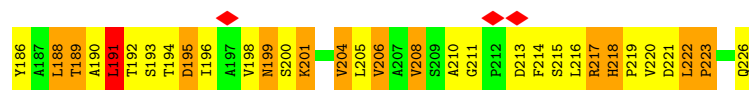


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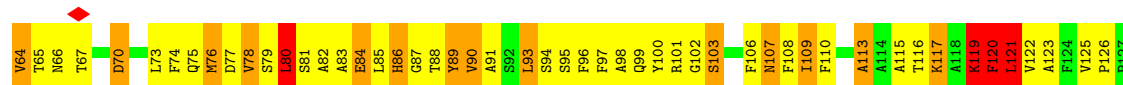
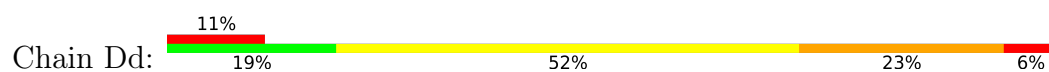


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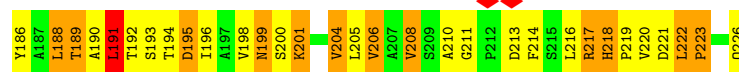
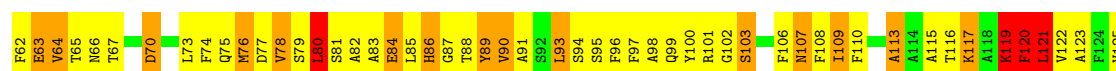
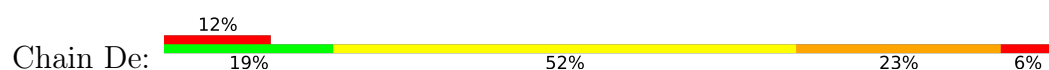




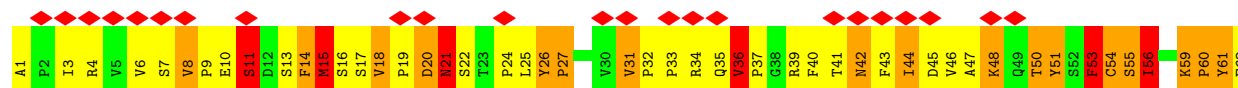
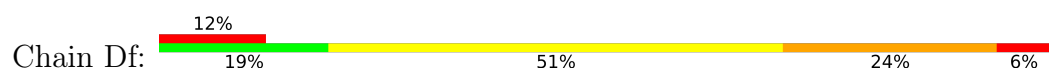
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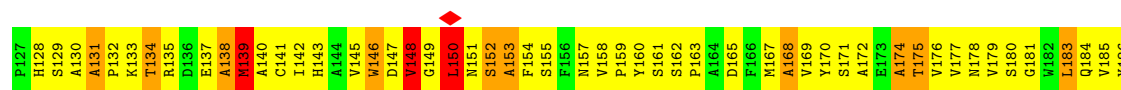


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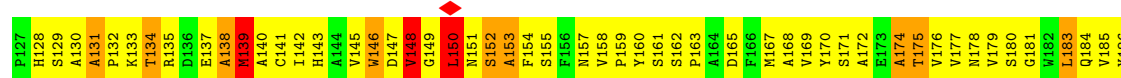
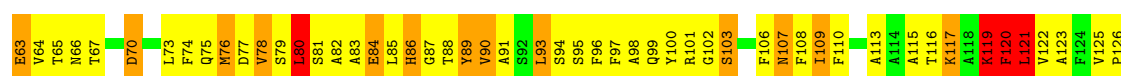
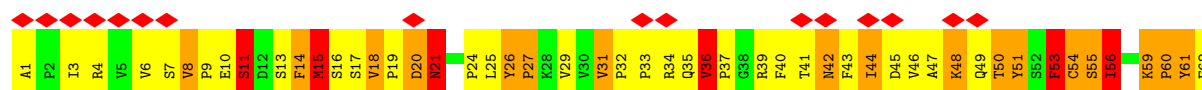
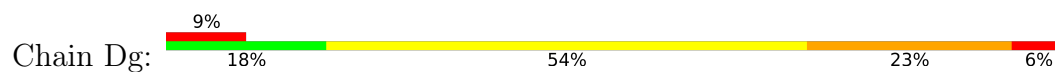


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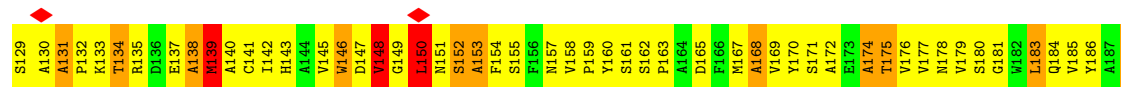
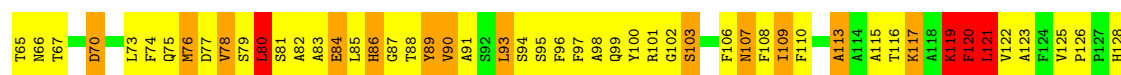
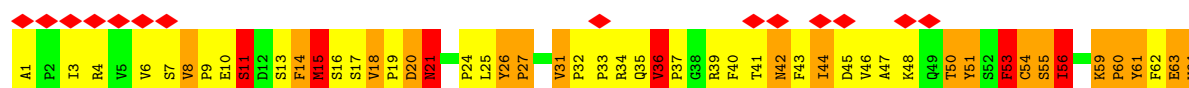
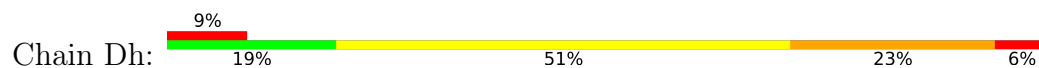




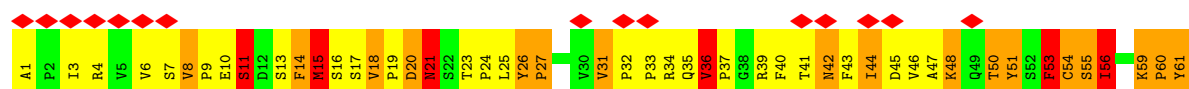
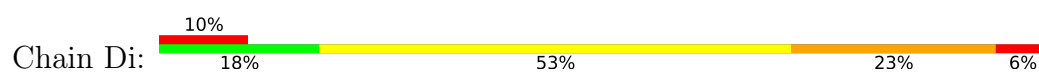
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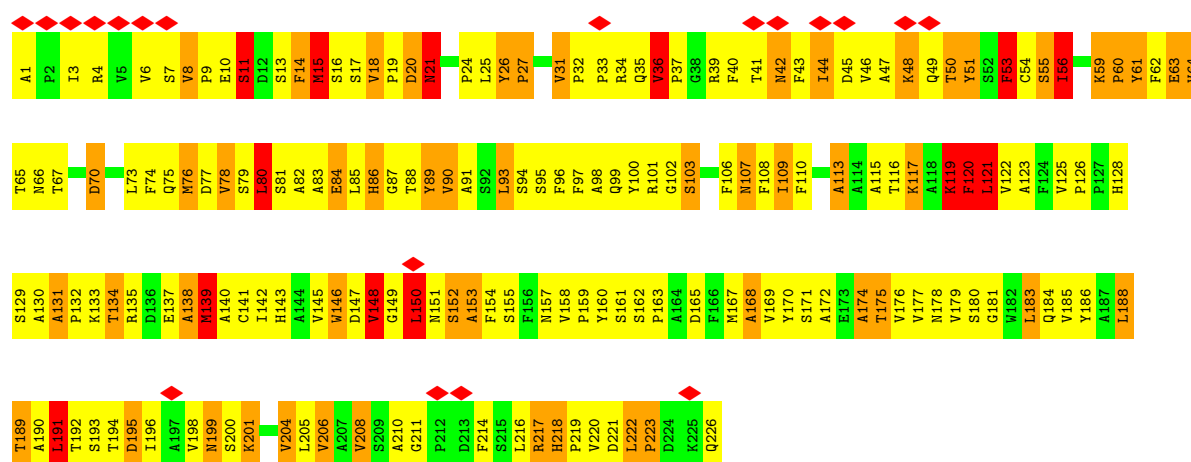
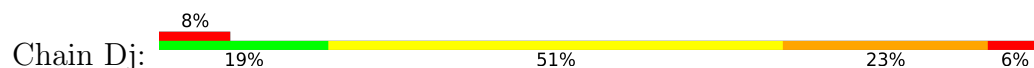
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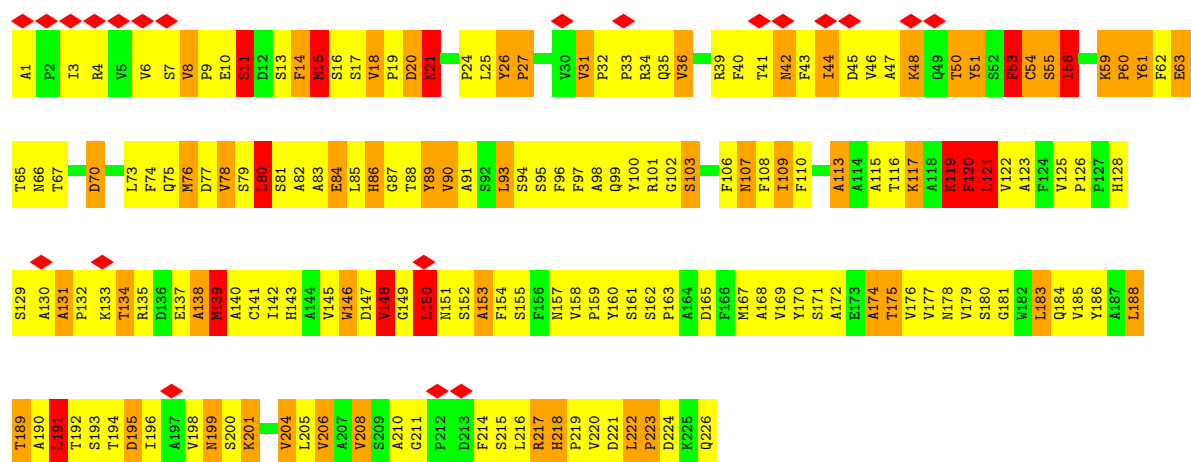
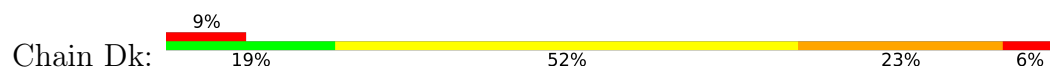
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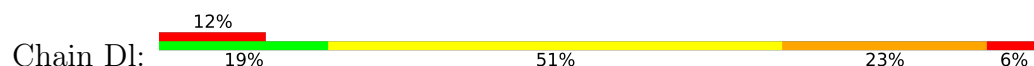
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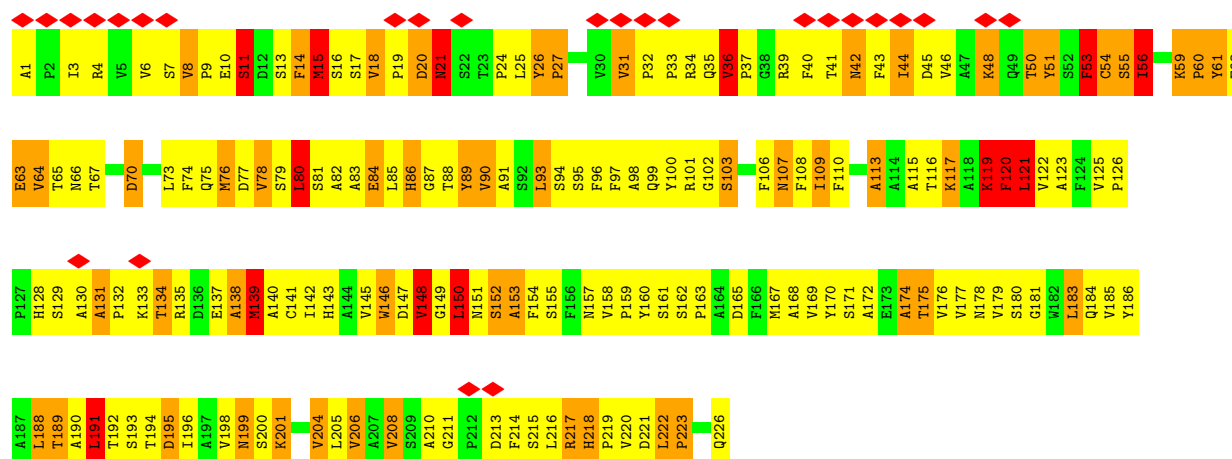


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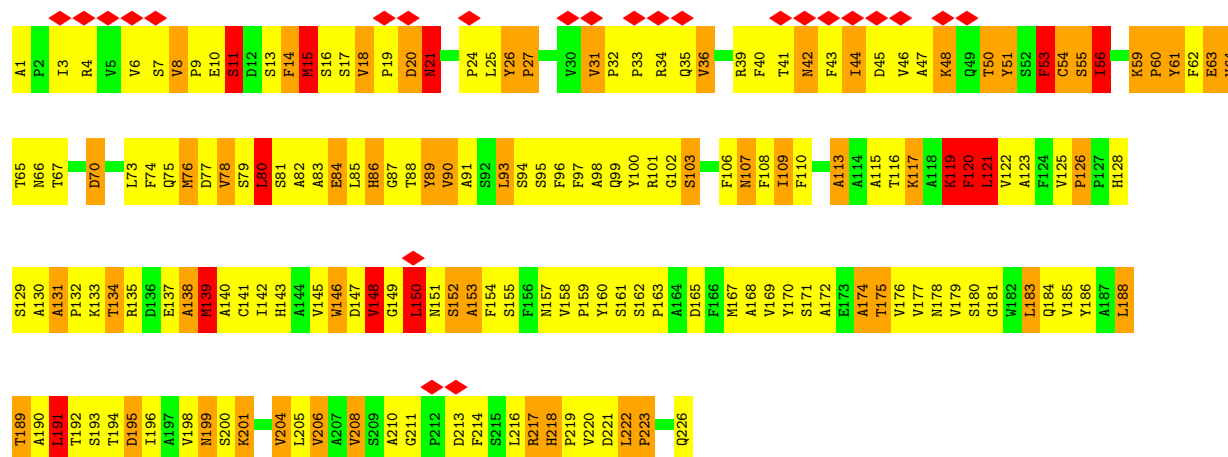
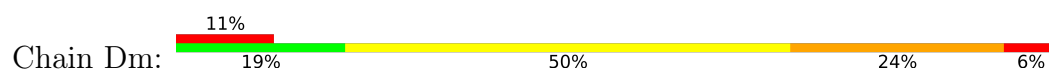


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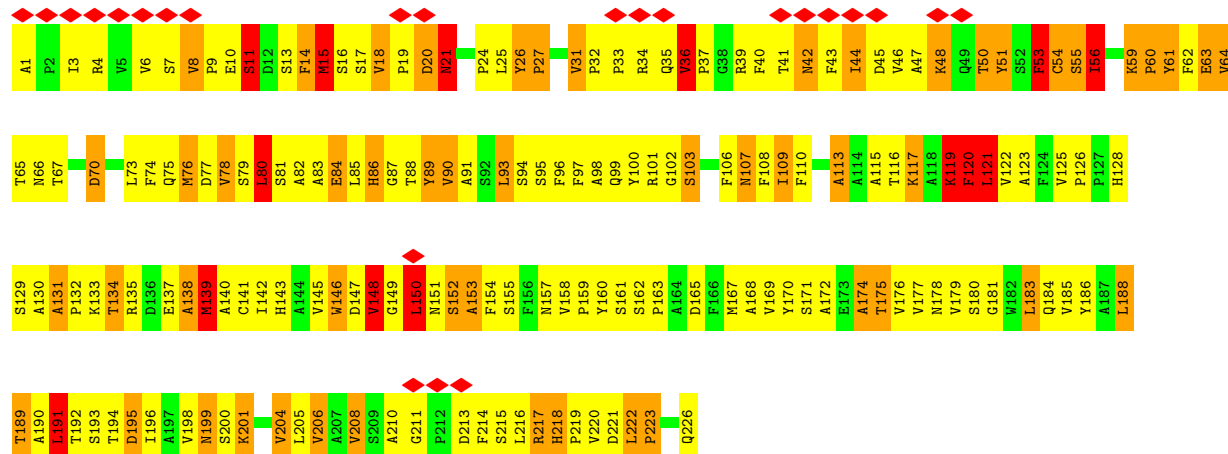
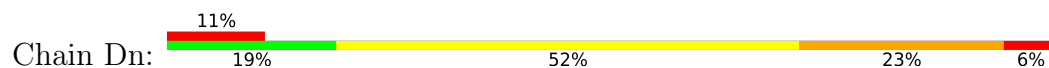




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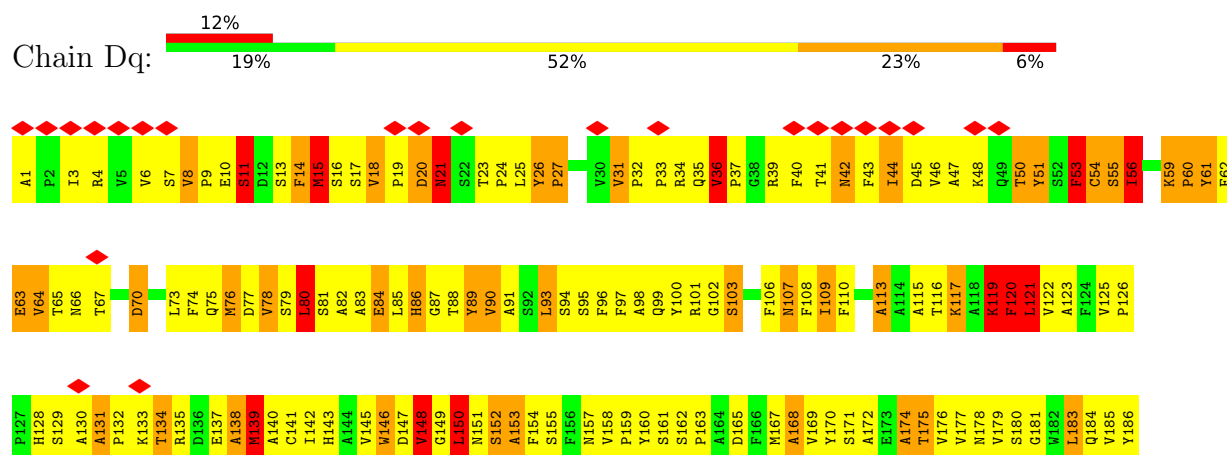
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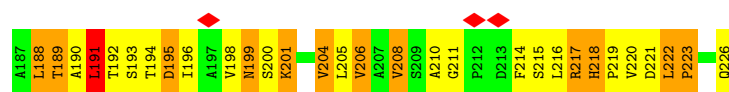


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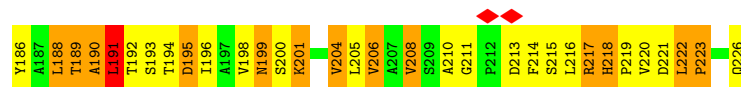
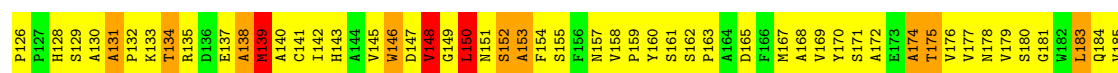
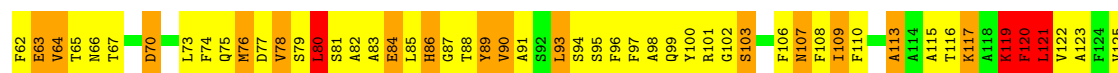
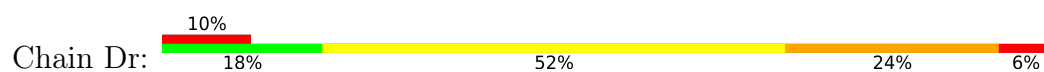
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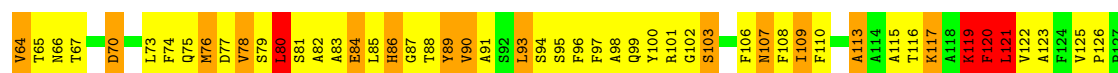
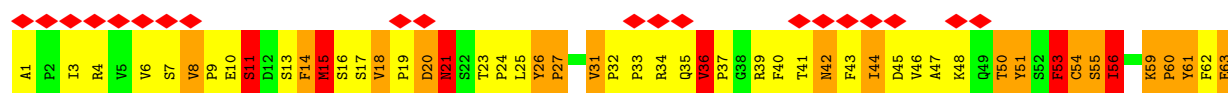
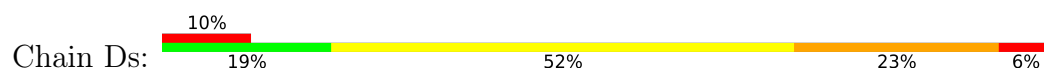




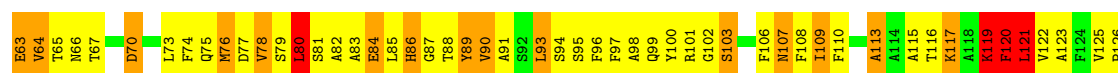
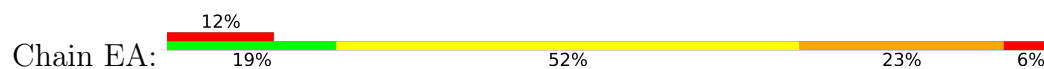
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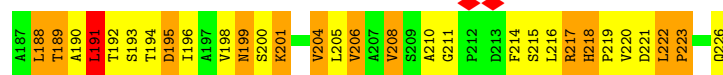
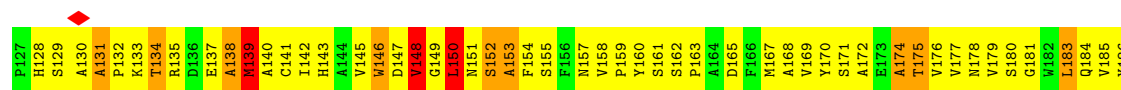


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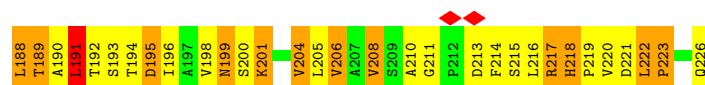
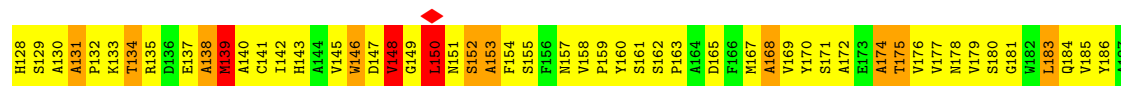
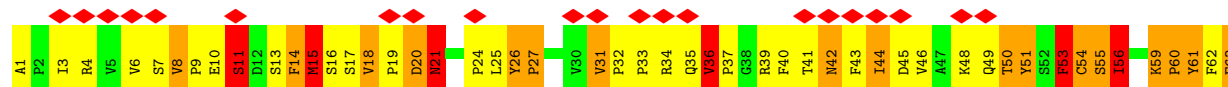
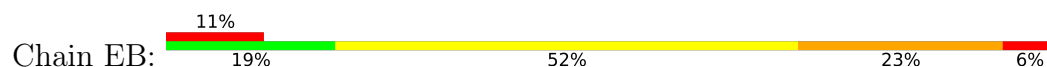


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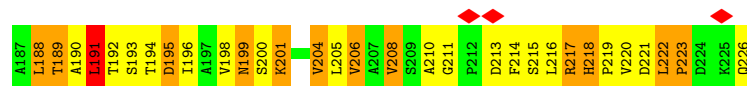
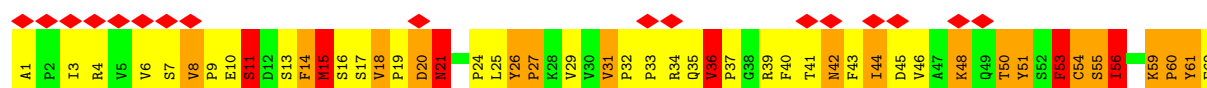
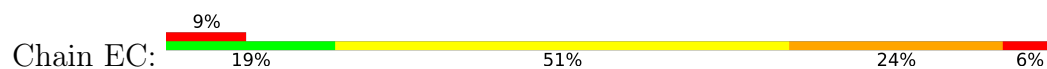




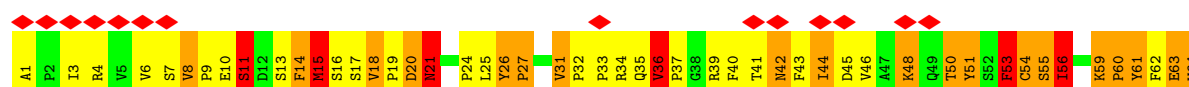
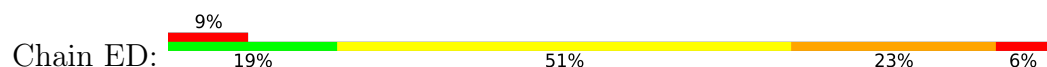
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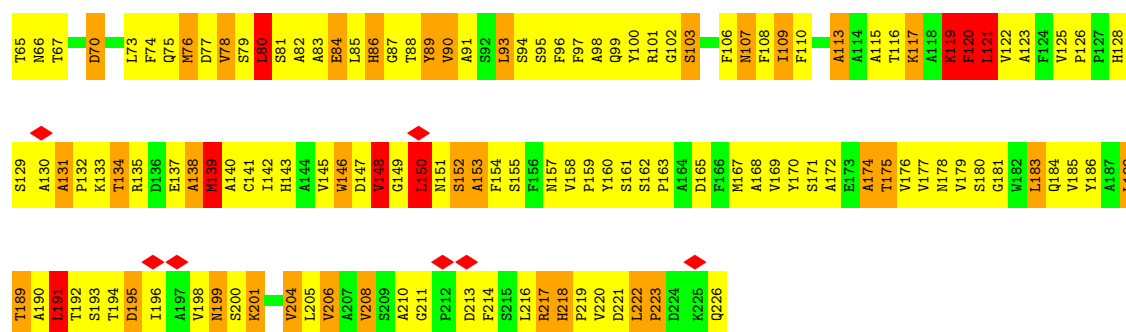


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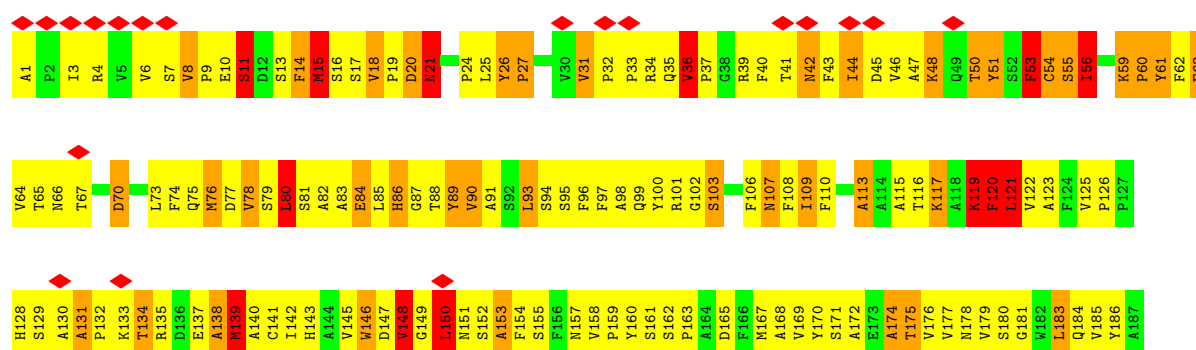
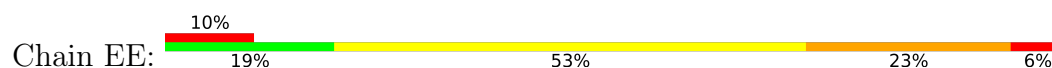


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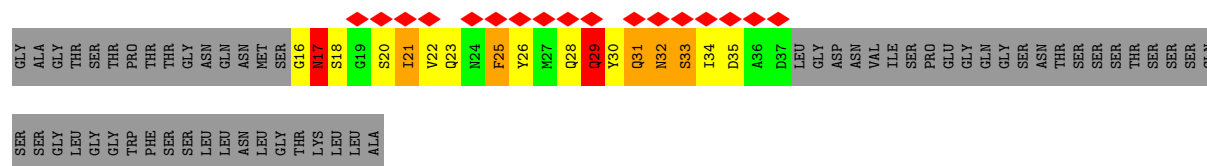




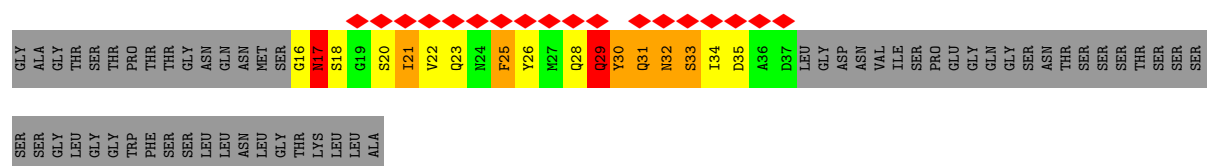
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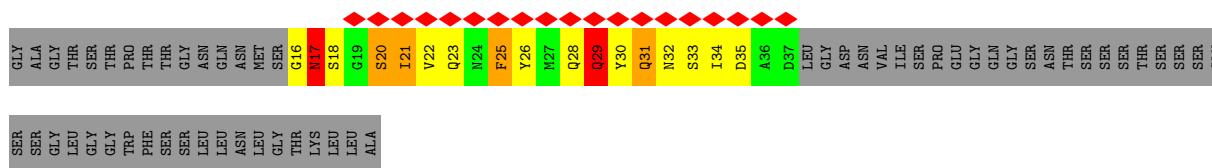
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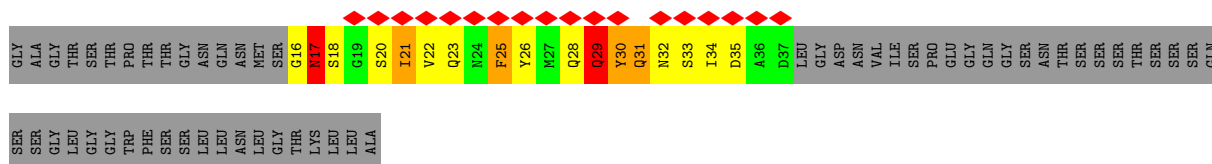
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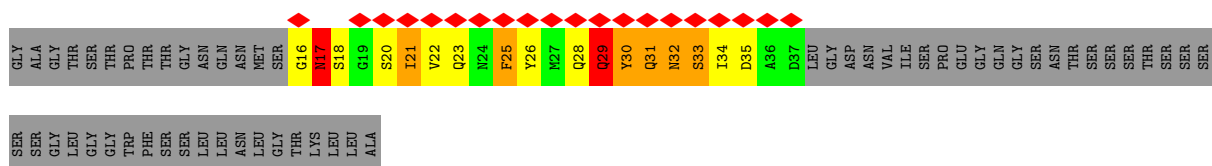
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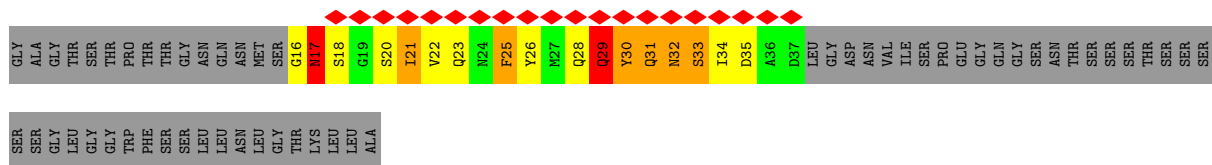
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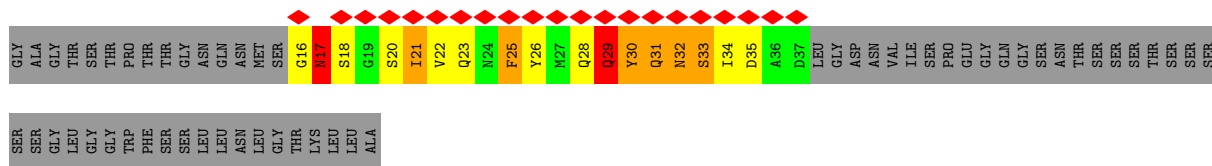
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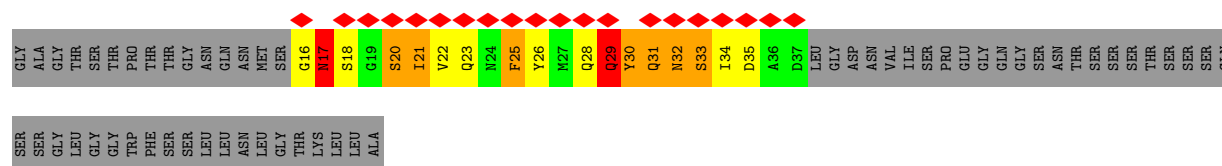


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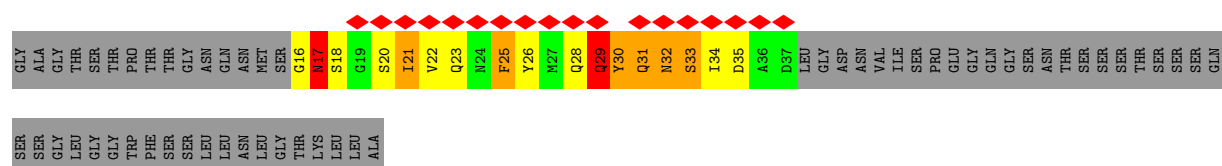




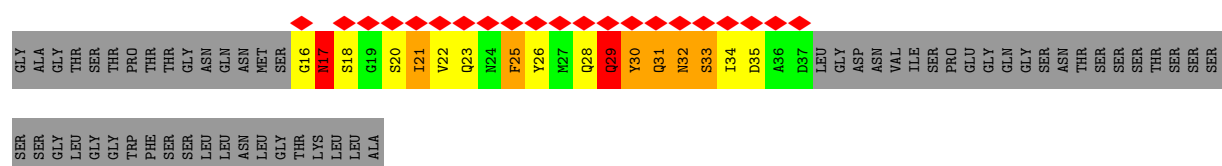
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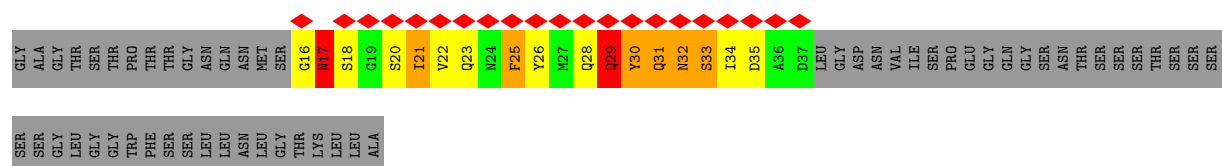
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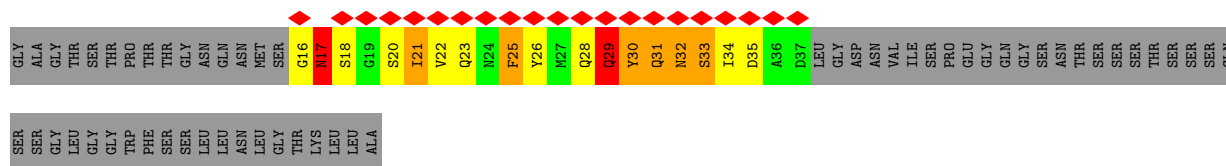


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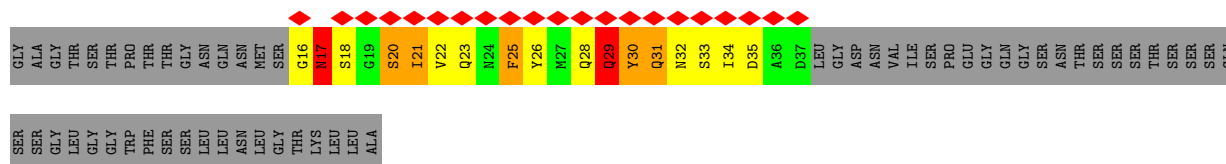


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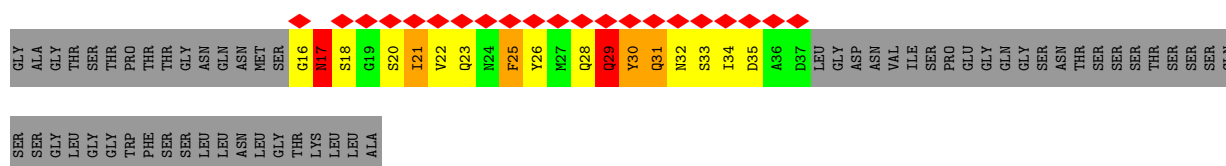
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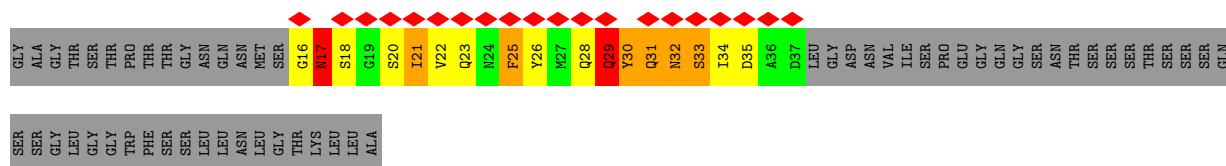
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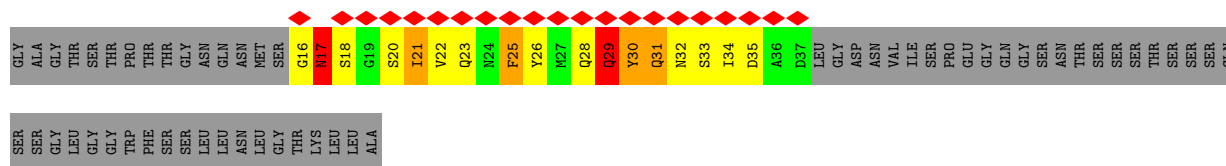


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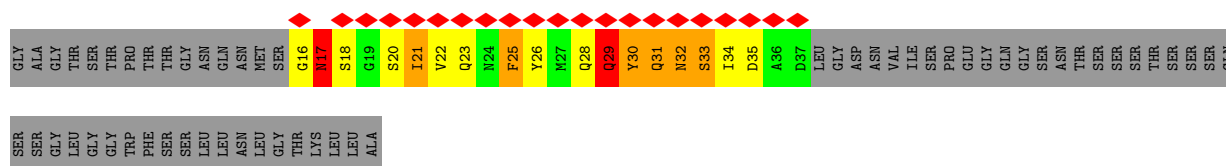


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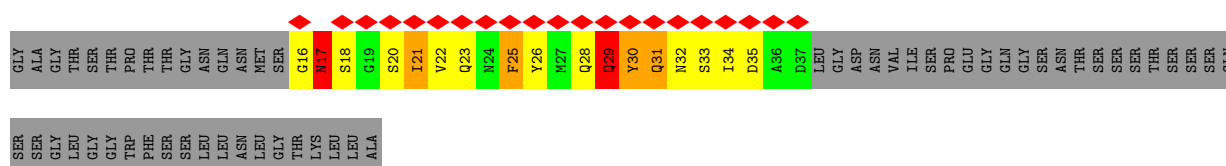




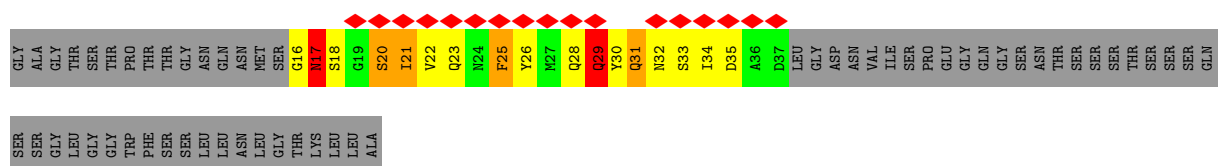
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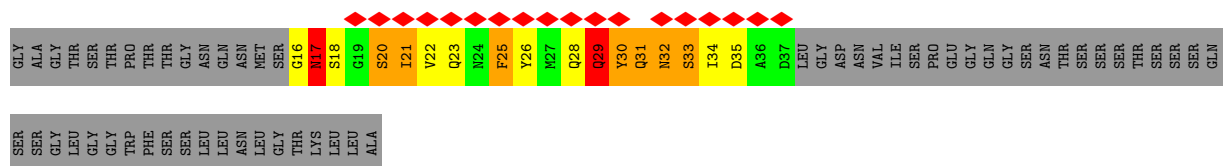
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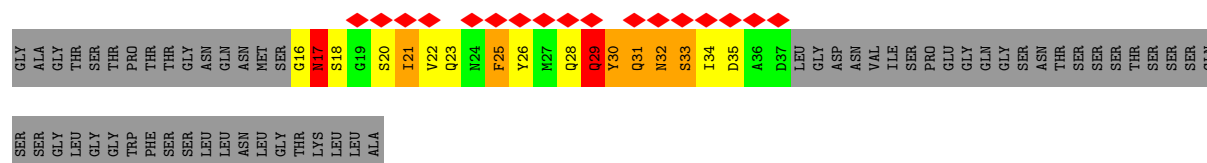


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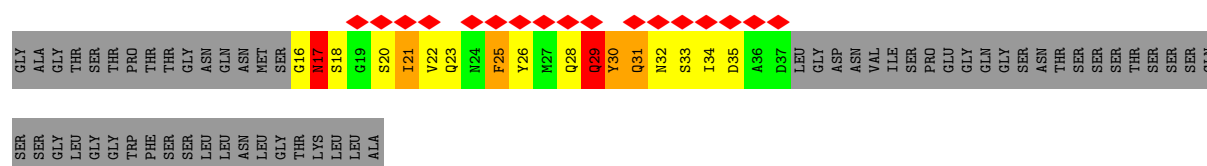




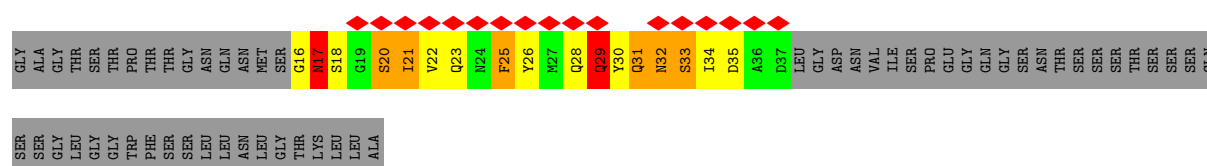
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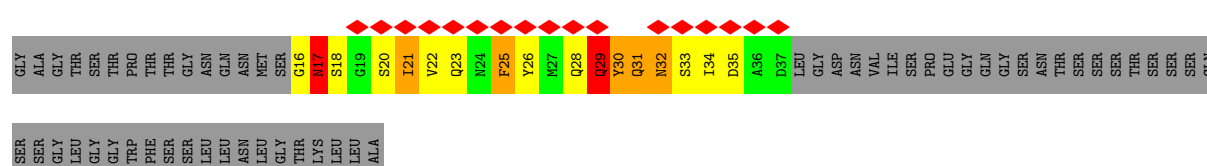
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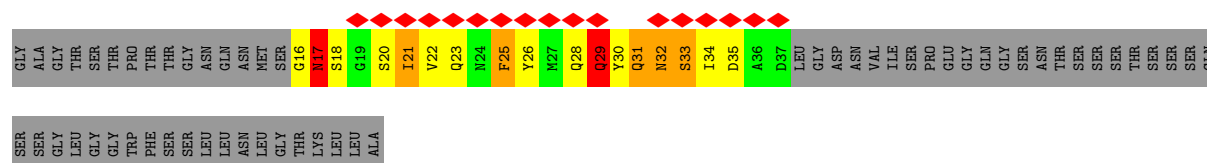


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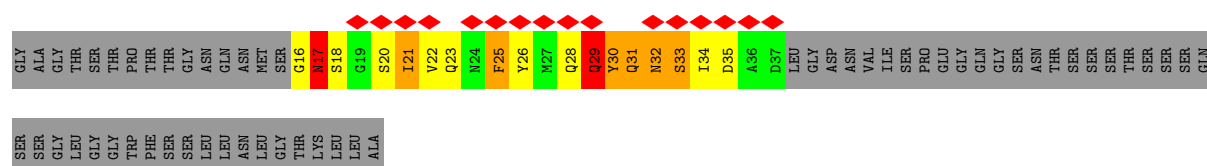




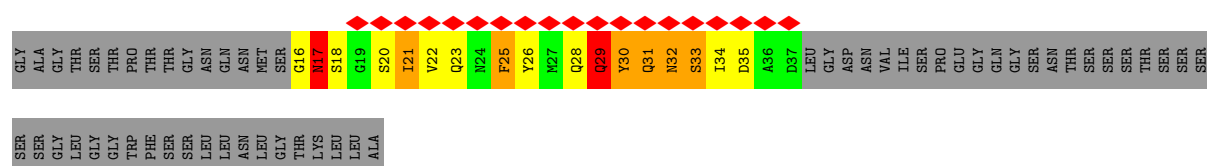
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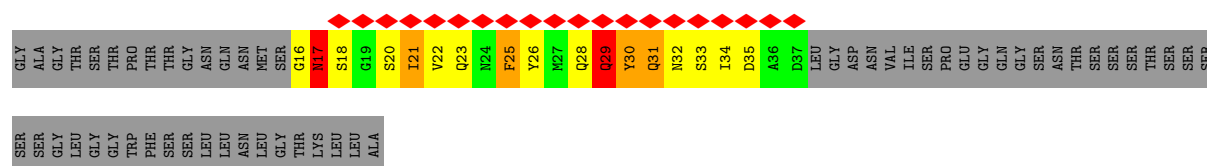
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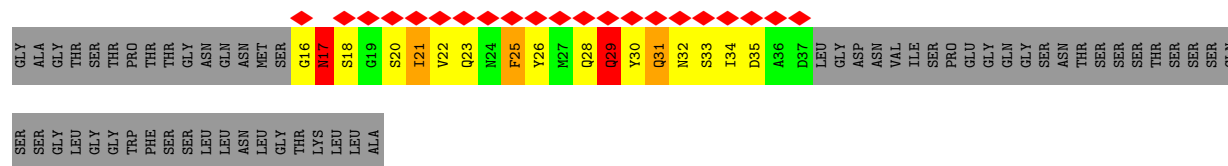


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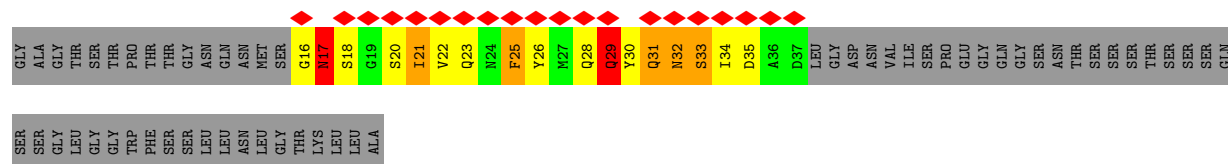


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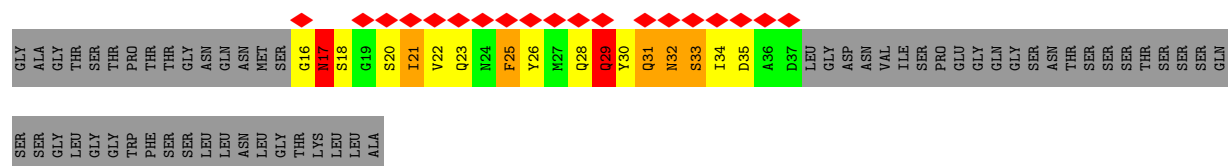




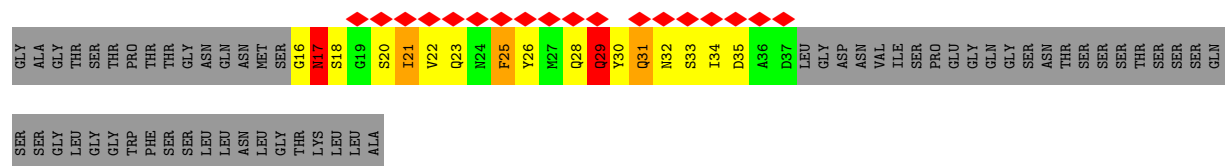
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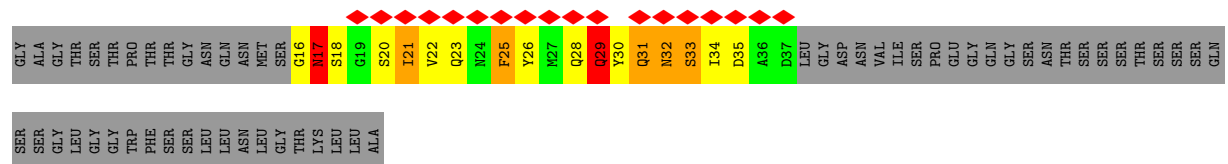
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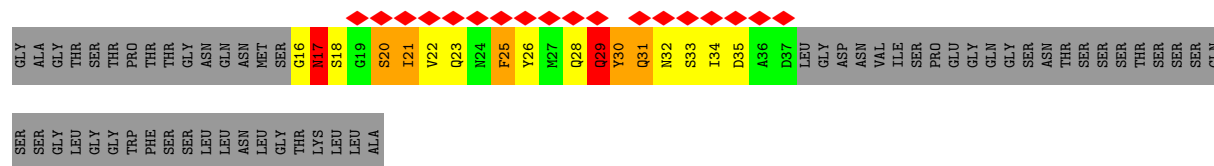


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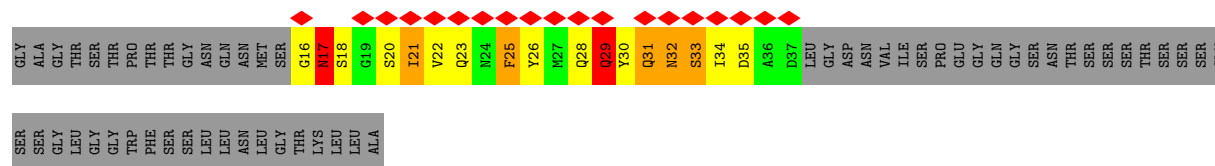


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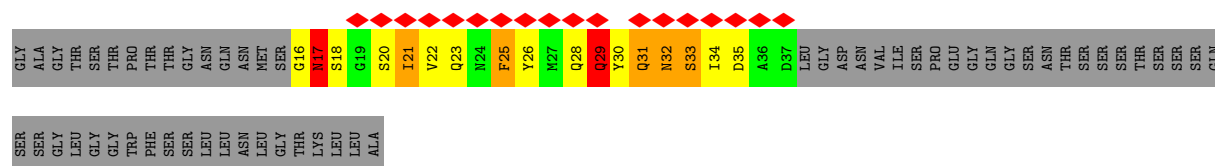


• Molecule 4: P1

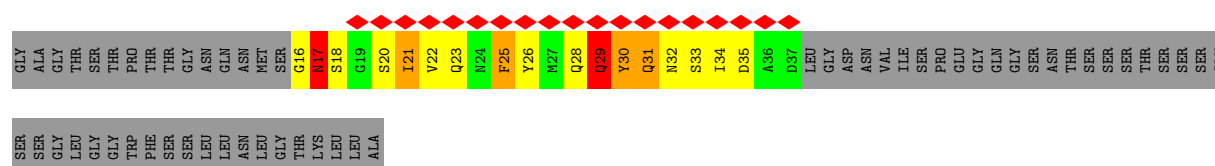




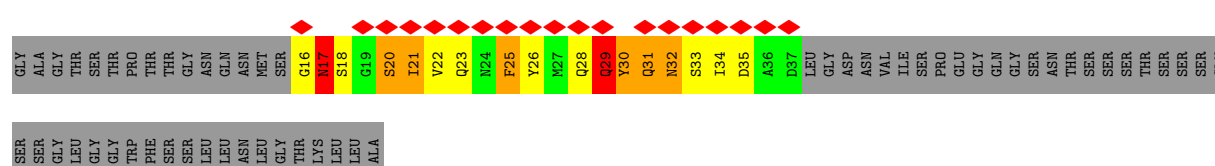
- Molecule 4: P1



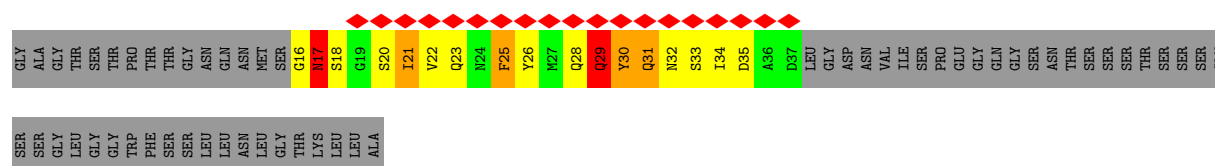
- Molecule 4: P1



- Molecule 4: P1

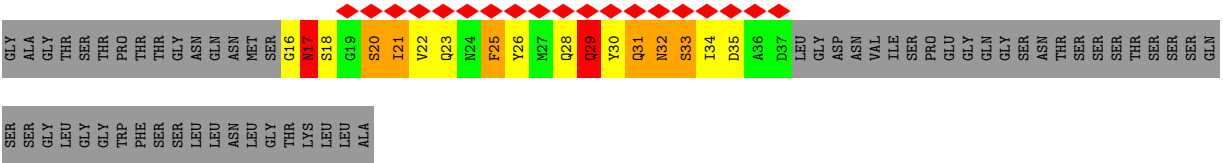


- Molecule 4: P1

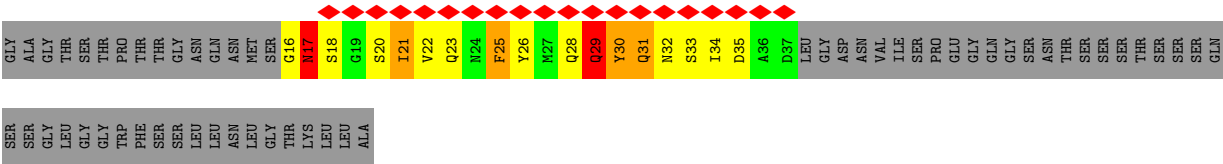


- Molecule 4: P1

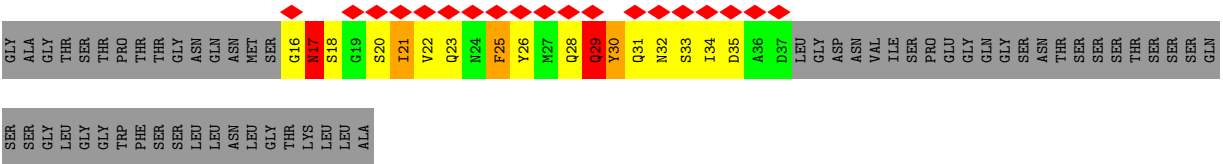




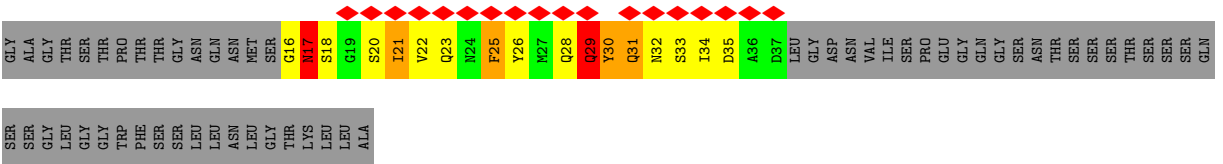
• Molecule 4: P1



• Molecule 4: P1



• Molecule 4: P1

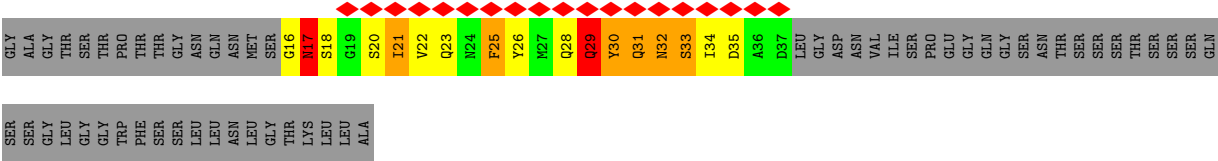


• Molecule 4: P1

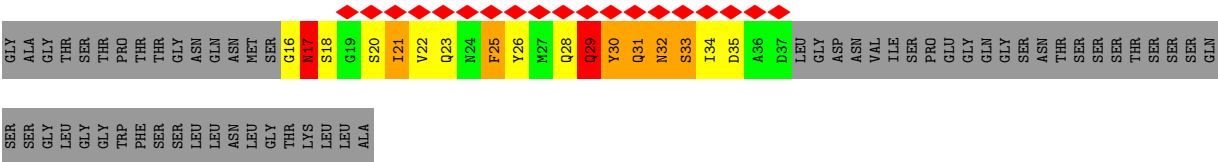


• Molecule 4: P1

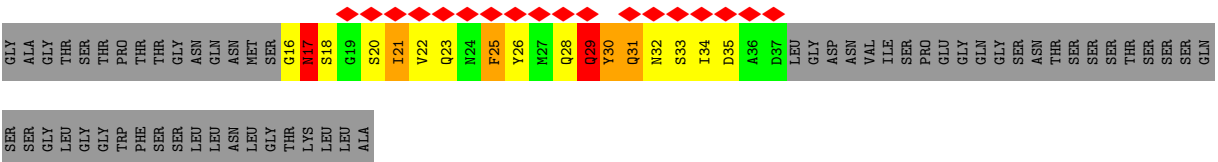




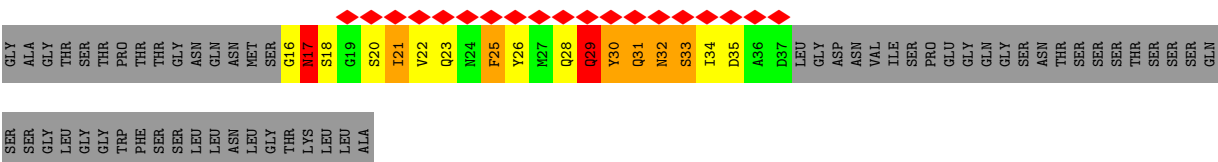
• Molecule 4: P1



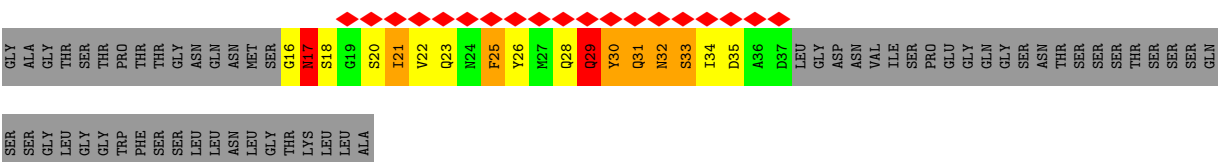
• Molecule 4: P1



• Molecule 4: P1

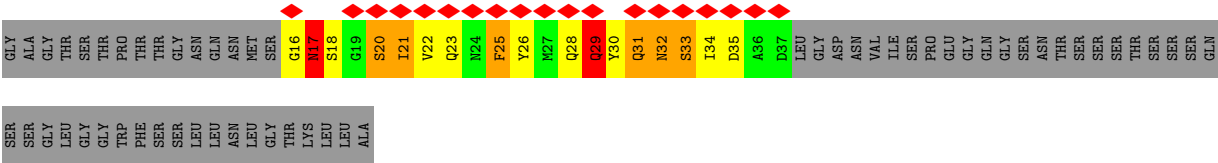


• Molecule 4: P1

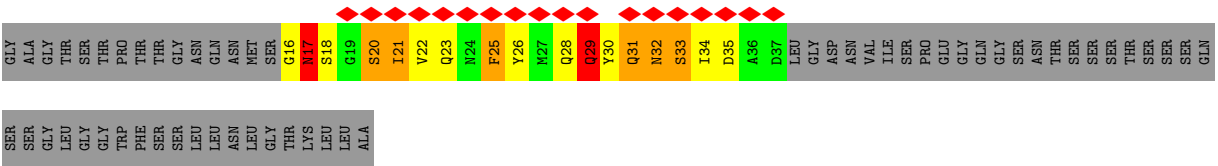


• Molecule 4: P1

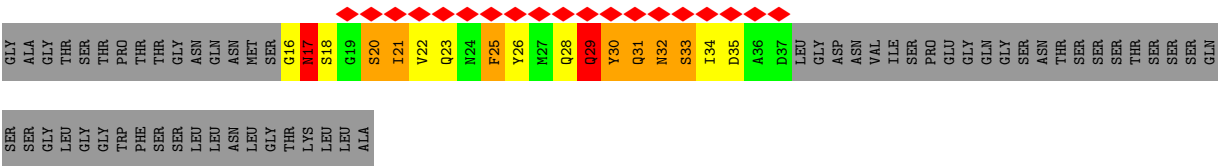




• Molecule 4: P1



• Molecule 4: P1



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	260	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	-4.614	Depositor
Average map value	0.058	Depositor
Map value standard deviation	1.018	Depositor
Recommended contour level	0.5	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	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	A1	1.06	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	A2	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	A3	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	A4	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	A5	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	A6	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	A7	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	A8	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	A9	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	AA	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	AB	1.05	3/1993 (0.2%)	1.53	36/2721 (1.3%)
1	AC	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	AD	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	AE	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	AF	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	AG	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	AH	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	AI	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	AJ	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	AK	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	AL	1.05	3/1993 (0.2%)	1.53	36/2721 (1.3%)
1	AM	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	AN	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	AO	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	AP	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	AQ	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	AR	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	AS	1.06	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	AT	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	AU	1.06	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	AV	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	AW	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	AX	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	AY	1.05	3/1993 (0.2%)	1.53	37/2721 (1.4%)
1	AZ	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	Aa	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	Ab	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	Ac	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	Ad	1.06	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	Ae	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	Af	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	Ag	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	Ah	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	Ai	1.05	3/1993 (0.2%)	1.53	37/2721 (1.4%)
1	Aj	1.06	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	Ak	1.05	3/1993 (0.2%)	1.53	36/2721 (1.3%)
1	Al	1.05	3/1993 (0.2%)	1.54	39/2721 (1.4%)
1	Am	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	An	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	Ao	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	BA	1.05	3/1993 (0.2%)	1.53	37/2721 (1.4%)
1	BB	1.05	3/1993 (0.2%)	1.53	39/2721 (1.4%)
1	BC	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	BD	1.06	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	BE	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	BF	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	BG	1.05	3/1993 (0.2%)	1.53	38/2721 (1.4%)
1	BH	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
1	BI	1.05	3/1993 (0.2%)	1.53	40/2721 (1.5%)
2	C0	1.03	2/1566 (0.1%)	1.70	51/2117 (2.4%)
2	C1	1.04	3/1566 (0.2%)	1.70	52/2117 (2.5%)
2	C2	1.04	2/1566 (0.1%)	1.70	50/2117 (2.4%)
2	C3	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	C4	1.03	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	C5	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	C6	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	C7	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	C8	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	C9	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CA	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CB	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CC	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CD	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	CE	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CF	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CG	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	CH	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CI	1.03	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CJ	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CK	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	CL	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CM	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CN	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CO	1.04	2/1566 (0.1%)	1.70	50/2117 (2.4%)
2	CP	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CQ	1.03	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CR	1.04	3/1566 (0.2%)	1.70	52/2117 (2.5%)
2	CS	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CT	1.04	2/1566 (0.1%)	1.70	50/2117 (2.4%)
2	CU	1.03	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CV	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CW	1.04	2/1566 (0.1%)	1.70	50/2117 (2.4%)
2	CX	1.03	2/1566 (0.1%)	1.70	51/2117 (2.4%)
2	CY	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	CZ	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	Ca	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cb	1.03	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	Cc	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cd	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Ce	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cf	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	Cg	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Ch	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Ci	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cj	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	Ck	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	Cl	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cm	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cn	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Co	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cp	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cq	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	Cr	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cs	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Ct	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cu	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	Cv	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)
2	Cw	1.04	3/1566 (0.2%)	1.70	50/2117 (2.4%)
2	Cx	1.04	3/1566 (0.2%)	1.70	51/2117 (2.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	D0	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	D1	1.12	5/1769 (0.3%)	1.52	39/2420 (1.6%)
3	D2	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	D3	1.12	5/1769 (0.3%)	1.52	41/2420 (1.7%)
3	D4	1.12	5/1769 (0.3%)	1.52	41/2420 (1.7%)
3	D5	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	D6	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	D7	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	D8	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	D9	1.12	5/1769 (0.3%)	1.52	39/2420 (1.6%)
3	DA	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DB	1.11	5/1769 (0.3%)	1.52	39/2420 (1.6%)
3	DC	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DD	1.11	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DE	1.11	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DF	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DG	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DH	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DI	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DJ	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DK	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DL	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DM	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DN	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DO	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DP	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DQ	1.12	5/1769 (0.3%)	1.52	41/2420 (1.7%)
3	DR	1.12	5/1769 (0.3%)	1.52	41/2420 (1.7%)
3	DS	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DT	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DU	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DV	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DW	1.12	5/1769 (0.3%)	1.52	38/2420 (1.6%)
3	DX	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DY	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	DZ	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Da	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Db	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Dc	1.12	5/1769 (0.3%)	1.52	39/2420 (1.6%)
3	Dd	1.11	5/1769 (0.3%)	1.52	39/2420 (1.6%)
3	De	1.12	5/1769 (0.3%)	1.52	39/2420 (1.6%)
3	Df	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Dg	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	Dh	1.12	5/1769 (0.3%)	1.52	39/2420 (1.6%)
3	Di	1.11	4/1769 (0.2%)	1.52	40/2420 (1.7%)
3	Dj	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Dk	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Dl	1.11	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Dm	1.12	6/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Dn	1.11	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Do	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Dp	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	Dq	1.12	5/1769 (0.3%)	1.52	39/2420 (1.6%)
3	Dr	1.12	5/1769 (0.3%)	1.52	41/2420 (1.7%)
3	Ds	1.11	5/1769 (0.3%)	1.52	39/2420 (1.6%)
3	EA	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	EB	1.12	5/1769 (0.3%)	1.52	39/2420 (1.6%)
3	EC	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	ED	1.12	5/1769 (0.3%)	1.52	40/2420 (1.7%)
3	EE	1.11	5/1769 (0.3%)	1.52	40/2420 (1.7%)
4	F0	0.98	0/168	1.44	4/226 (1.8%)
4	F1	0.98	0/168	1.44	4/226 (1.8%)
4	F2	0.98	0/168	1.44	5/226 (2.2%)
4	F3	0.97	0/168	1.44	4/226 (1.8%)
4	F4	0.97	0/168	1.44	4/226 (1.8%)
4	F5	0.97	0/168	1.44	4/226 (1.8%)
4	F6	0.97	0/168	1.44	4/226 (1.8%)
4	F7	0.98	0/168	1.44	4/226 (1.8%)
4	F8	0.97	0/168	1.44	5/226 (2.2%)
4	F9	0.97	0/168	1.44	4/226 (1.8%)
4	FA	0.97	0/168	1.44	4/226 (1.8%)
4	FB	0.97	0/168	1.44	4/226 (1.8%)
4	FC	0.98	0/168	1.44	4/226 (1.8%)
4	FD	0.97	0/168	1.44	5/226 (2.2%)
4	FE	0.97	0/168	1.44	5/226 (2.2%)
4	FF	0.97	0/168	1.44	4/226 (1.8%)
4	FG	0.98	0/168	1.44	4/226 (1.8%)
4	FH	0.98	0/168	1.44	4/226 (1.8%)
4	FI	0.97	0/168	1.44	4/226 (1.8%)
4	FJ	0.97	0/168	1.44	4/226 (1.8%)
4	FK	0.97	0/168	1.44	5/226 (2.2%)
4	FL	0.98	0/168	1.44	5/226 (2.2%)
4	FM	0.98	0/168	1.44	5/226 (2.2%)
4	FN	0.97	0/168	1.44	4/226 (1.8%)
4	FO	0.97	0/168	1.44	4/226 (1.8%)
4	FP	0.98	0/168	1.44	5/226 (2.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
4	FQ	0.97	0/168	1.44	4/226 (1.8%)
4	FR	0.97	0/168	1.44	4/226 (1.8%)
4	FS	0.97	0/168	1.44	4/226 (1.8%)
4	FT	0.97	0/168	1.44	4/226 (1.8%)
4	FU	0.97	0/168	1.44	4/226 (1.8%)
4	FV	0.97	0/168	1.44	4/226 (1.8%)
4	FW	0.97	0/168	1.44	4/226 (1.8%)
4	FX	0.97	0/168	1.44	4/226 (1.8%)
4	FY	0.98	0/168	1.44	4/226 (1.8%)
4	FZ	0.97	0/168	1.44	4/226 (1.8%)
4	Fa	0.97	0/168	1.44	4/226 (1.8%)
4	Fb	0.98	0/168	1.44	5/226 (2.2%)
4	Fc	0.97	0/168	1.44	4/226 (1.8%)
4	Fd	0.97	0/168	1.44	5/226 (2.2%)
4	Fe	0.97	0/168	1.44	4/226 (1.8%)
4	Ff	0.97	0/168	1.44	4/226 (1.8%)
4	Fg	0.97	0/168	1.44	4/226 (1.8%)
4	Fh	0.97	0/168	1.44	4/226 (1.8%)
4	Fi	0.97	0/168	1.44	4/226 (1.8%)
4	Fj	0.97	0/168	1.44	5/226 (2.2%)
4	Fk	0.97	0/168	1.44	4/226 (1.8%)
4	Fl	0.97	0/168	1.44	5/226 (2.2%)
4	Fm	0.97	0/168	1.44	4/226 (1.8%)
4	Fn	0.96	0/168	1.44	4/226 (1.8%)
4	Fo	0.97	0/168	1.44	4/226 (1.8%)
4	Fp	0.97	0/168	1.44	4/226 (1.8%)
4	Fq	0.97	0/168	1.44	4/226 (1.8%)
4	Fr	0.97	0/168	1.44	4/226 (1.8%)
4	Fs	0.97	0/168	1.44	4/226 (1.8%)
4	Ft	0.97	0/168	1.44	4/226 (1.8%)
4	Fu	0.97	0/168	1.44	4/226 (1.8%)
4	Fv	0.97	0/168	1.44	5/226 (2.2%)
4	Fw	0.97	0/168	1.44	5/226 (2.2%)
4	Fx	0.97	0/168	1.44	5/226 (2.2%)
All	All	1.07	654/329760 (0.2%)	1.57	7997/449040 (1.8%)

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
3	D0	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	D1	0	2
3	D2	0	2
3	D3	0	2
3	D4	0	2
3	D5	0	2
3	D6	0	2
3	D7	0	2
3	D8	0	2
3	D9	0	2
3	DA	0	2
3	DB	0	2
3	DC	0	2
3	DD	0	2
3	DE	0	2
3	DF	0	2
3	DG	0	2
3	DH	0	2
3	DI	0	2
3	DJ	0	2
3	DK	0	2
3	DL	0	2
3	DM	0	2
3	DN	0	2
3	DO	0	2
3	DP	0	2
3	DQ	0	2
3	DR	0	2
3	DS	0	2
3	DT	0	2
3	DU	0	2
3	DV	0	2
3	DW	0	2
3	DX	0	2
3	DY	0	2
3	DZ	0	2
3	Da	0	2
3	Db	0	2
3	Dc	0	2
3	Dd	0	2
3	De	0	2
3	Df	0	2
3	Dg	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	Dh	0	2
3	Di	0	2
3	Dj	0	2
3	Dk	0	2
3	Dl	0	2
3	Dm	0	2
3	Dn	0	2
3	Do	0	2
3	Dp	0	2
3	Dq	0	2
3	Dr	0	2
3	Ds	0	2
3	EA	0	2
3	EB	0	2
3	EC	0	2
3	ED	0	2
3	EE	0	2
All	All	0	120

All (654) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D9	120	PHE	N-CA	10.01	1.59	1.46
3	Da	120	PHE	N-CA	10.00	1.59	1.46
3	DZ	120	PHE	N-CA	10.00	1.59	1.46
3	DY	120	PHE	N-CA	9.99	1.59	1.46
3	D2	120	PHE	N-CA	9.99	1.59	1.46
3	DT	120	PHE	N-CA	9.98	1.59	1.46
3	DF	120	PHE	N-CA	9.98	1.59	1.46
3	D4	120	PHE	N-CA	9.97	1.59	1.46
3	D5	120	PHE	N-CA	9.97	1.59	1.46
3	DV	120	PHE	N-CA	9.97	1.59	1.46
3	DB	120	PHE	N-CA	9.97	1.59	1.46
3	D3	120	PHE	N-CA	9.97	1.59	1.46
3	DR	120	PHE	N-CA	9.97	1.59	1.46
3	De	120	PHE	N-CA	9.97	1.59	1.46
3	Dp	120	PHE	N-CA	9.96	1.59	1.46
3	DQ	120	PHE	N-CA	9.96	1.59	1.46
3	Df	120	PHE	N-CA	9.96	1.59	1.46
3	DS	120	PHE	N-CA	9.96	1.59	1.46
3	Dj	120	PHE	N-CA	9.96	1.59	1.46
3	DL	120	PHE	N-CA	9.95	1.59	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Dl	120	PHE	N-CA	9.95	1.59	1.46
3	EA	120	PHE	N-CA	9.95	1.59	1.46
3	D7	120	PHE	N-CA	9.95	1.59	1.46
3	DX	120	PHE	N-CA	9.94	1.59	1.46
3	ED	120	PHE	N-CA	9.94	1.59	1.46
3	D8	120	PHE	N-CA	9.93	1.59	1.46
3	DD	120	PHE	N-CA	9.93	1.59	1.46
3	DO	120	PHE	N-CA	9.93	1.59	1.46
3	Dg	120	PHE	N-CA	9.93	1.59	1.46
3	Do	120	PHE	N-CA	9.93	1.59	1.46
3	DH	120	PHE	N-CA	9.93	1.58	1.46
3	DM	120	PHE	N-CA	9.93	1.58	1.46
3	D0	120	PHE	N-CA	9.92	1.58	1.46
3	DA	120	PHE	N-CA	9.92	1.58	1.46
3	DP	120	PHE	N-CA	9.92	1.58	1.46
3	DI	120	PHE	N-CA	9.91	1.58	1.46
3	DN	120	PHE	N-CA	9.91	1.58	1.46
3	DU	120	PHE	N-CA	9.90	1.58	1.46
3	D1	120	PHE	N-CA	9.90	1.58	1.46
3	EC	120	PHE	N-CA	9.90	1.58	1.46
3	DG	120	PHE	N-CA	9.90	1.58	1.46
3	Dk	120	PHE	N-CA	9.90	1.58	1.46
3	Dn	120	PHE	N-CA	9.90	1.58	1.46
3	D6	120	PHE	N-CA	9.89	1.58	1.46
3	DK	120	PHE	N-CA	9.89	1.58	1.46
3	Dd	120	PHE	N-CA	9.89	1.58	1.46
3	Dr	120	PHE	N-CA	9.89	1.58	1.46
3	Ds	120	PHE	N-CA	9.89	1.58	1.46
3	EB	120	PHE	N-CA	9.89	1.58	1.46
3	Dm	120	PHE	N-CA	9.89	1.58	1.46
3	EE	120	PHE	N-CA	9.89	1.58	1.46
3	Dh	120	PHE	N-CA	9.88	1.58	1.46
3	Di	120	PHE	N-CA	9.88	1.58	1.46
3	Dc	120	PHE	N-CA	9.87	1.58	1.46
3	DE	120	PHE	N-CA	9.87	1.58	1.46
3	DW	120	PHE	N-CA	9.87	1.58	1.46
3	Db	120	PHE	N-CA	9.87	1.58	1.46
3	DC	120	PHE	N-CA	9.86	1.58	1.46
3	DJ	120	PHE	N-CA	9.85	1.58	1.46
3	Dq	120	PHE	N-CA	9.84	1.58	1.46
1	Am	225	PRO	CA-C	6.71	1.58	1.52
1	Aj	225	PRO	CA-C	6.70	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ad	225	PRO	CA-C	6.69	1.58	1.52
1	AM	225	PRO	CA-C	6.68	1.58	1.52
1	AX	225	PRO	CA-C	6.68	1.58	1.52
1	AY	225	PRO	CA-C	6.67	1.58	1.52
1	A6	225	PRO	CA-C	6.67	1.58	1.52
1	Ah	225	PRO	CA-C	6.66	1.58	1.52
1	An	225	PRO	CA-C	6.66	1.58	1.52
1	AE	225	PRO	CA-C	6.65	1.58	1.52
1	Ae	225	PRO	CA-C	6.65	1.58	1.52
1	A2	225	PRO	CA-C	6.64	1.58	1.52
1	Ac	225	PRO	CA-C	6.64	1.58	1.52
1	AS	225	PRO	CA-C	6.64	1.58	1.52
1	BI	225	PRO	CA-C	6.63	1.58	1.52
1	AW	225	PRO	CA-C	6.63	1.58	1.52
1	A3	225	PRO	CA-C	6.63	1.58	1.52
1	BH	225	PRO	CA-C	6.62	1.58	1.52
1	AC	225	PRO	CA-C	6.62	1.58	1.52
1	AV	225	PRO	CA-C	6.62	1.58	1.52
1	AH	225	PRO	CA-C	6.62	1.58	1.52
1	BE	225	PRO	CA-C	6.62	1.58	1.52
1	AA	225	PRO	CA-C	6.62	1.58	1.52
1	Ak	225	PRO	CA-C	6.62	1.58	1.52
1	BF	225	PRO	CA-C	6.62	1.58	1.52
1	AQ	225	PRO	CA-C	6.61	1.58	1.52
1	AD	225	PRO	CA-C	6.61	1.58	1.52
1	BG	225	PRO	CA-C	6.61	1.58	1.52
1	AP	225	PRO	CA-C	6.61	1.58	1.52
1	AN	225	PRO	CA-C	6.61	1.58	1.52
1	AU	225	PRO	CA-C	6.61	1.58	1.52
1	AK	225	PRO	CA-C	6.60	1.58	1.52
1	AR	225	PRO	CA-C	6.60	1.58	1.52
1	A7	225	PRO	CA-C	6.60	1.58	1.52
1	BC	225	PRO	CA-C	6.60	1.58	1.52
1	BA	225	PRO	CA-C	6.59	1.58	1.52
1	A0	225	PRO	CA-C	6.59	1.58	1.52
1	AZ	225	PRO	CA-C	6.59	1.58	1.52
1	A4	225	PRO	CA-C	6.59	1.58	1.52
1	AJ	225	PRO	CA-C	6.59	1.58	1.52
1	AI	225	PRO	CA-C	6.58	1.58	1.52
1	AL	225	PRO	CA-C	6.58	1.58	1.52
1	Ai	225	PRO	CA-C	6.58	1.58	1.52
1	Ab	225	PRO	CA-C	6.57	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ao	225	PRO	CA-C	6.57	1.58	1.52
1	AF	225	PRO	CA-C	6.57	1.58	1.52
1	A8	225	PRO	CA-C	6.56	1.58	1.52
1	BB	225	PRO	CA-C	6.53	1.58	1.52
1	Af	225	PRO	CA-C	6.53	1.58	1.52
1	A1	225	PRO	CA-C	6.53	1.58	1.52
1	A5	225	PRO	CA-C	6.53	1.58	1.52
1	BD	225	PRO	CA-C	6.52	1.58	1.52
1	Ag	225	PRO	CA-C	6.51	1.58	1.52
1	A9	225	PRO	CA-C	6.51	1.58	1.52
1	AB	225	PRO	CA-C	6.50	1.58	1.52
1	AG	225	PRO	CA-C	6.50	1.58	1.52
1	AT	225	PRO	CA-C	6.49	1.58	1.52
1	Aa	225	PRO	CA-C	6.49	1.58	1.52
1	Al	225	PRO	CA-C	6.49	1.58	1.52
1	AO	225	PRO	CA-C	6.46	1.58	1.52
3	DG	76	MET	SD-CE	-6.18	1.64	1.79
3	Dj	76	MET	SD-CE	-6.17	1.64	1.79
3	DB	76	MET	SD-CE	-6.16	1.64	1.79
3	Dc	76	MET	SD-CE	-6.16	1.64	1.79
3	DP	76	MET	SD-CE	-6.15	1.64	1.79
3	Do	76	MET	SD-CE	-6.15	1.64	1.79
3	DQ	76	MET	SD-CE	-6.15	1.64	1.79
3	D7	76	MET	SD-CE	-6.14	1.64	1.79
3	DR	76	MET	SD-CE	-6.14	1.64	1.79
3	DV	76	MET	SD-CE	-6.14	1.64	1.79
3	ED	76	MET	SD-CE	-6.14	1.64	1.79
3	DA	76	MET	SD-CE	-6.14	1.64	1.79
3	D8	76	MET	SD-CE	-6.14	1.64	1.79
3	DK	76	MET	SD-CE	-6.14	1.64	1.79
3	Db	76	MET	SD-CE	-6.14	1.64	1.79
3	Dn	76	MET	SD-CE	-6.14	1.64	1.79
3	DX	76	MET	SD-CE	-6.13	1.64	1.79
3	Dd	76	MET	SD-CE	-6.13	1.64	1.79
3	DC	76	MET	SD-CE	-6.13	1.64	1.79
3	Dk	76	MET	SD-CE	-6.13	1.64	1.79
3	Dh	76	MET	SD-CE	-6.13	1.64	1.79
3	D6	76	MET	SD-CE	-6.13	1.64	1.79
3	D9	76	MET	SD-CE	-6.13	1.64	1.79
3	DL	76	MET	SD-CE	-6.13	1.64	1.79
3	DO	76	MET	SD-CE	-6.12	1.64	1.79
3	DI	76	MET	SD-CE	-6.12	1.64	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Df	76	MET	SD-CE	-6.12	1.64	1.79
3	EA	76	MET	SD-CE	-6.12	1.64	1.79
3	D5	76	MET	SD-CE	-6.12	1.64	1.79
3	DY	76	MET	SD-CE	-6.12	1.64	1.79
3	Dl	76	MET	SD-CE	-6.12	1.64	1.79
3	Dm	76	MET	SD-CE	-6.12	1.64	1.79
3	DJ	76	MET	SD-CE	-6.12	1.64	1.79
3	DM	76	MET	SD-CE	-6.11	1.64	1.79
3	DD	76	MET	SD-CE	-6.11	1.64	1.79
3	EC	76	MET	SD-CE	-6.11	1.64	1.79
3	D3	76	MET	SD-CE	-6.11	1.64	1.79
3	DH	76	MET	SD-CE	-6.11	1.64	1.79
3	DW	76	MET	SD-CE	-6.11	1.64	1.79
3	Dg	76	MET	SD-CE	-6.11	1.64	1.79
3	D1	76	MET	SD-CE	-6.11	1.64	1.79
3	D2	76	MET	SD-CE	-6.11	1.64	1.79
3	DU	76	MET	SD-CE	-6.11	1.64	1.79
3	Di	76	MET	SD-CE	-6.11	1.64	1.79
3	DN	76	MET	SD-CE	-6.10	1.64	1.79
3	DS	76	MET	SD-CE	-6.10	1.64	1.79
3	EE	76	MET	SD-CE	-6.10	1.64	1.79
3	DO	119	LYS	CE-NZ	6.10	1.67	1.49
3	De	76	MET	SD-CE	-6.10	1.64	1.79
3	D4	76	MET	SD-CE	-6.10	1.64	1.79
3	DF	76	MET	SD-CE	-6.10	1.64	1.79
3	DT	76	MET	SD-CE	-6.10	1.64	1.79
3	Da	76	MET	SD-CE	-6.10	1.64	1.79
3	Dr	76	MET	SD-CE	-6.10	1.64	1.79
3	Ds	76	MET	SD-CE	-6.09	1.64	1.79
3	DS	119	LYS	CE-NZ	6.09	1.67	1.49
3	D0	76	MET	SD-CE	-6.09	1.64	1.79
3	DZ	76	MET	SD-CE	-6.09	1.64	1.79
3	Dp	76	MET	SD-CE	-6.09	1.64	1.79
3	Dq	76	MET	SD-CE	-6.08	1.64	1.79
3	DG	119	LYS	CE-NZ	6.08	1.67	1.49
3	D3	119	LYS	CE-NZ	6.08	1.67	1.49
3	Dr	119	LYS	CE-NZ	6.08	1.67	1.49
3	Da	119	LYS	CE-NZ	6.08	1.67	1.49
3	EE	119	LYS	CE-NZ	6.08	1.67	1.49
3	DE	76	MET	SD-CE	-6.08	1.64	1.79
3	DM	119	LYS	CE-NZ	6.07	1.67	1.49
3	DW	119	LYS	CE-NZ	6.07	1.67	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	DY	119	LYS	CE-NZ	6.07	1.67	1.49
3	DI	119	LYS	CE-NZ	6.07	1.67	1.49
3	Dg	119	LYS	CE-NZ	6.07	1.67	1.49
3	DF	119	LYS	CE-NZ	6.07	1.67	1.49
3	DU	119	LYS	CE-NZ	6.07	1.67	1.49
3	DV	119	LYS	CE-NZ	6.07	1.67	1.49
3	Dn	119	LYS	CE-NZ	6.07	1.67	1.49
3	D1	119	LYS	CE-NZ	6.06	1.67	1.49
3	DR	119	LYS	CE-NZ	6.06	1.67	1.49
3	DZ	119	LYS	CE-NZ	6.06	1.67	1.49
3	ED	119	LYS	CE-NZ	6.06	1.67	1.49
3	D8	119	LYS	CE-NZ	6.06	1.67	1.49
3	DB	119	LYS	CE-NZ	6.06	1.67	1.49
3	DI	119	LYS	CE-NZ	6.06	1.67	1.49
3	DK	119	LYS	CE-NZ	6.06	1.67	1.49
3	DE	119	LYS	CE-NZ	6.06	1.67	1.49
3	Db	119	LYS	CE-NZ	6.06	1.67	1.49
3	De	119	LYS	CE-NZ	6.06	1.67	1.49
3	Dk	119	LYS	CE-NZ	6.06	1.67	1.49
3	EC	119	LYS	CE-NZ	6.06	1.67	1.49
3	DA	119	LYS	CE-NZ	6.06	1.67	1.49
3	Dc	119	LYS	CE-NZ	6.06	1.67	1.49
3	Di	119	LYS	CE-NZ	6.06	1.67	1.49
3	EB	76	MET	SD-CE	-6.06	1.64	1.79
3	D7	119	LYS	CE-NZ	6.05	1.67	1.49
3	DD	119	LYS	CE-NZ	6.05	1.67	1.49
3	Dd	119	LYS	CE-NZ	6.05	1.67	1.49
3	Dp	119	LYS	CE-NZ	6.05	1.67	1.49
3	Do	119	LYS	CE-NZ	6.05	1.67	1.49
3	DX	119	LYS	CE-NZ	6.05	1.67	1.49
3	Dj	119	LYS	CE-NZ	6.05	1.67	1.49
3	D5	119	LYS	CE-NZ	6.04	1.67	1.49
3	Dm	119	LYS	CE-NZ	6.04	1.67	1.49
3	D9	119	LYS	CE-NZ	6.04	1.67	1.49
3	D0	119	LYS	CE-NZ	6.04	1.67	1.49
3	D2	119	LYS	CE-NZ	6.04	1.67	1.49
3	D4	119	LYS	CE-NZ	6.04	1.67	1.49
3	D6	119	LYS	CE-NZ	6.04	1.67	1.49
3	DQ	119	LYS	CE-NZ	6.04	1.67	1.49
3	DC	119	LYS	CE-NZ	6.04	1.67	1.49
3	Dh	119	LYS	CE-NZ	6.04	1.67	1.49
3	EA	119	LYS	CE-NZ	6.04	1.67	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	EB	119	LYS	CE-NZ	6.04	1.67	1.49
3	DJ	119	LYS	CE-NZ	6.03	1.67	1.49
3	DN	119	LYS	CE-NZ	6.03	1.67	1.49
3	DP	119	LYS	CE-NZ	6.03	1.67	1.49
3	Ds	119	LYS	CE-NZ	6.03	1.67	1.49
3	DL	119	LYS	CE-NZ	6.02	1.67	1.49
3	DT	119	LYS	CE-NZ	6.02	1.67	1.49
3	Dq	119	LYS	CE-NZ	6.02	1.67	1.49
3	Df	119	LYS	CE-NZ	6.01	1.67	1.49
3	DH	119	LYS	CE-NZ	6.00	1.67	1.49
3	Dk	139	MET	SD-CE	-5.80	1.65	1.79
3	Dp	139	MET	SD-CE	-5.79	1.65	1.79
3	DI	139	MET	SD-CE	-5.79	1.65	1.79
3	Do	139	MET	SD-CE	-5.79	1.65	1.79
3	D4	139	MET	SD-CE	-5.78	1.65	1.79
3	DA	139	MET	SD-CE	-5.78	1.65	1.79
3	Di	139	MET	SD-CE	-5.78	1.65	1.79
3	EE	139	MET	SD-CE	-5.78	1.65	1.79
3	DK	139	MET	SD-CE	-5.78	1.65	1.79
3	D1	139	MET	SD-CE	-5.77	1.65	1.79
3	D7	139	MET	SD-CE	-5.77	1.65	1.79
3	Df	139	MET	SD-CE	-5.77	1.65	1.79
3	DJ	139	MET	SD-CE	-5.77	1.65	1.79
3	EB	139	MET	SD-CE	-5.77	1.65	1.79
3	DB	139	MET	SD-CE	-5.76	1.65	1.79
3	DO	139	MET	SD-CE	-5.76	1.65	1.79
3	DX	139	MET	SD-CE	-5.76	1.65	1.79
3	D8	139	MET	SD-CE	-5.76	1.65	1.79
3	DI	139	MET	SD-CE	-5.76	1.65	1.79
3	D3	139	MET	SD-CE	-5.76	1.65	1.79
3	D6	139	MET	SD-CE	-5.76	1.65	1.79
3	Dh	139	MET	SD-CE	-5.76	1.65	1.79
3	DQ	139	MET	SD-CE	-5.76	1.65	1.79
3	DT	139	MET	SD-CE	-5.76	1.65	1.79
3	Db	139	MET	SD-CE	-5.76	1.65	1.79
3	Dq	139	MET	SD-CE	-5.76	1.65	1.79
3	EA	139	MET	SD-CE	-5.76	1.65	1.79
3	De	139	MET	SD-CE	-5.75	1.65	1.79
3	D2	139	MET	SD-CE	-5.75	1.65	1.79
3	DC	139	MET	SD-CE	-5.75	1.65	1.79
3	DE	139	MET	SD-CE	-5.75	1.65	1.79
3	DP	139	MET	SD-CE	-5.75	1.65	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Da	139	MET	SD-CE	-5.75	1.65	1.79
3	Dr	139	MET	SD-CE	-5.75	1.65	1.79
3	DG	139	MET	SD-CE	-5.75	1.65	1.79
3	D9	139	MET	SD-CE	-5.75	1.65	1.79
3	DS	139	MET	SD-CE	-5.75	1.65	1.79
3	Dj	139	MET	SD-CE	-5.75	1.65	1.79
3	DV	139	MET	SD-CE	-5.74	1.65	1.79
3	Dc	139	MET	SD-CE	-5.74	1.65	1.79
3	Dm	139	MET	SD-CE	-5.74	1.65	1.79
3	Ds	139	MET	SD-CE	-5.74	1.65	1.79
3	DH	139	MET	SD-CE	-5.74	1.65	1.79
3	DM	139	MET	SD-CE	-5.74	1.65	1.79
3	ED	139	MET	SD-CE	-5.74	1.65	1.79
3	DD	139	MET	SD-CE	-5.74	1.65	1.79
3	Dg	139	MET	SD-CE	-5.74	1.65	1.79
3	DZ	139	MET	SD-CE	-5.74	1.65	1.79
3	DL	139	MET	SD-CE	-5.73	1.65	1.79
3	DW	139	MET	SD-CE	-5.73	1.65	1.79
3	DR	139	MET	SD-CE	-5.73	1.65	1.79
3	D5	139	MET	SD-CE	-5.73	1.65	1.79
3	Dd	139	MET	SD-CE	-5.72	1.65	1.79
3	DY	139	MET	SD-CE	-5.72	1.65	1.79
3	Dn	139	MET	SD-CE	-5.72	1.65	1.79
3	DF	139	MET	SD-CE	-5.72	1.65	1.79
3	EC	139	MET	SD-CE	-5.72	1.65	1.79
3	D0	139	MET	SD-CE	-5.71	1.65	1.79
3	DN	139	MET	SD-CE	-5.71	1.65	1.79
3	DU	139	MET	SD-CE	-5.71	1.65	1.79
1	AB	116	THR	CA-CB	5.62	1.62	1.53
1	Ag	116	THR	CA-CB	5.61	1.62	1.53
1	BF	116	THR	CA-CB	5.60	1.62	1.53
1	Ah	116	THR	CA-CB	5.60	1.62	1.53
1	Aj	116	THR	CA-CB	5.58	1.62	1.53
1	AO	116	THR	CA-CB	5.57	1.62	1.53
1	BA	116	THR	CA-CB	5.56	1.62	1.53
1	AJ	116	THR	CA-CB	5.56	1.62	1.53
1	A4	116	THR	CA-CB	5.55	1.62	1.53
1	AW	116	THR	CA-CB	5.55	1.62	1.53
1	A3	116	THR	CA-CB	5.54	1.62	1.53
1	BC	116	THR	CA-CB	5.54	1.62	1.53
1	AU	116	THR	CA-CB	5.54	1.62	1.53
1	Ak	116	THR	CA-CB	5.54	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AC	116	THR	CA-CB	5.54	1.62	1.53
1	BI	116	THR	CA-CB	5.53	1.62	1.53
1	AA	116	THR	CA-CB	5.53	1.62	1.53
1	AM	116	THR	CA-CB	5.53	1.62	1.53
1	AZ	116	THR	CA-CB	5.53	1.62	1.53
1	Ac	116	THR	CA-CB	5.53	1.62	1.53
1	AE	116	THR	CA-CB	5.53	1.62	1.53
1	AT	116	THR	CA-CB	5.53	1.62	1.53
1	Ao	116	THR	CA-CB	5.53	1.62	1.53
1	An	116	THR	CA-CB	5.52	1.62	1.53
1	AH	116	THR	CA-CB	5.52	1.62	1.53
1	A1	116	THR	CA-CB	5.52	1.62	1.53
1	Ab	116	THR	CA-CB	5.52	1.62	1.53
1	A6	116	THR	CA-CB	5.51	1.62	1.53
1	AR	116	THR	CA-CB	5.51	1.62	1.53
1	BH	116	THR	CA-CB	5.51	1.62	1.53
1	AQ	116	THR	CA-CB	5.51	1.62	1.53
1	Aa	116	THR	CA-CB	5.51	1.62	1.53
1	BG	116	THR	CA-CB	5.51	1.62	1.53
1	AD	116	THR	CA-CB	5.51	1.62	1.53
1	AL	116	THR	CA-CB	5.50	1.62	1.53
1	AP	116	THR	CA-CB	5.50	1.62	1.53
1	AS	116	THR	CA-CB	5.50	1.62	1.53
1	Ad	116	THR	CA-CB	5.50	1.62	1.53
1	AI	116	THR	CA-CB	5.50	1.62	1.53
1	BD	116	THR	CA-CB	5.50	1.62	1.53
1	A2	116	THR	CA-CB	5.50	1.62	1.53
1	A5	116	THR	CA-CB	5.49	1.62	1.53
1	A0	116	THR	CA-CB	5.49	1.62	1.53
1	AN	116	THR	CA-CB	5.49	1.62	1.53
1	BB	116	THR	CA-CB	5.49	1.62	1.53
1	AG	116	THR	CA-CB	5.49	1.62	1.53
1	AX	116	THR	CA-CB	5.49	1.62	1.53
1	AY	116	THR	CA-CB	5.49	1.62	1.53
1	A9	116	THR	CA-CB	5.48	1.62	1.53
1	Ae	116	THR	CA-CB	5.48	1.62	1.53
1	Al	116	THR	CA-CB	5.48	1.62	1.53
1	AF	116	THR	CA-CB	5.48	1.62	1.53
2	Co	167	THR	CA-CB	5.48	1.62	1.53
1	A8	116	THR	CA-CB	5.48	1.62	1.53
1	AV	116	THR	CA-CB	5.48	1.62	1.53
1	BE	116	THR	CA-CB	5.48	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A7	116	THR	CA-CB	5.46	1.62	1.53
1	Af	116	THR	CA-CB	5.46	1.62	1.53
1	Ai	116	THR	CA-CB	5.45	1.62	1.53
2	CS	167	THR	CA-CB	5.43	1.62	1.53
1	AK	116	THR	CA-CB	5.43	1.62	1.53
1	Am	116	THR	CA-CB	5.43	1.62	1.53
2	CQ	167	THR	CA-CB	5.43	1.62	1.53
2	Cw	167	THR	CA-CB	5.42	1.62	1.53
2	CI	167	THR	CA-CB	5.42	1.62	1.53
2	CR	167	THR	CA-CB	5.42	1.62	1.53
2	CD	167	THR	CA-CB	5.42	1.62	1.53
2	C4	167	THR	CA-CB	5.42	1.62	1.53
2	Cn	167	THR	CA-CB	5.42	1.62	1.53
2	C6	167	THR	CA-CB	5.41	1.62	1.53
2	Cd	167	THR	CA-CB	5.41	1.62	1.53
2	Cp	167	THR	CA-CB	5.41	1.62	1.53
2	CB	167	THR	CA-CB	5.40	1.62	1.53
2	Ci	167	THR	CA-CB	5.39	1.62	1.53
2	Cr	167	THR	CA-CB	5.39	1.62	1.53
1	BF	218	MET	SD-CE	-5.39	1.66	1.79
2	CL	167	THR	CA-CB	5.39	1.62	1.53
2	Ch	167	THR	CA-CB	5.39	1.62	1.53
2	Cj	148	PRO	CA-C	5.39	1.60	1.52
1	AV	218	MET	SD-CE	-5.39	1.66	1.79
2	C8	167	THR	CA-CB	5.39	1.62	1.53
1	AN	218	MET	SD-CE	-5.38	1.66	1.79
2	CZ	167	THR	CA-CB	5.38	1.62	1.53
2	Cc	167	THR	CA-CB	5.38	1.62	1.53
2	CU	167	THR	CA-CB	5.38	1.62	1.53
2	Cm	167	THR	CA-CB	5.38	1.62	1.53
2	Cu	167	THR	CA-CB	5.38	1.62	1.53
1	AE	218	MET	SD-CE	-5.38	1.66	1.79
1	Af	218	MET	SD-CE	-5.38	1.66	1.79
1	AK	218	MET	SD-CE	-5.38	1.66	1.79
2	Cj	167	THR	CA-CB	5.37	1.62	1.53
1	A6	218	MET	SD-CE	-5.37	1.66	1.79
1	BG	218	MET	SD-CE	-5.37	1.66	1.79
2	CG	148	PRO	CA-C	5.37	1.60	1.52
2	Ck	167	THR	CA-CB	5.37	1.62	1.53
2	CA	167	THR	CA-CB	5.37	1.62	1.53
1	Ac	218	MET	SD-CE	-5.37	1.66	1.79
2	CE	167	THR	CA-CB	5.37	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	CN	167	THR	CA-CB	5.37	1.62	1.53
2	Cs	167	THR	CA-CB	5.37	1.62	1.53
3	DU	125	VAL	CA-C	-5.37	1.48	1.53
1	AT	218	MET	SD-CE	-5.36	1.66	1.79
2	C8	148	PRO	CA-C	5.36	1.60	1.52
1	Ae	218	MET	SD-CE	-5.36	1.66	1.79
2	Ce	167	THR	CA-CB	5.36	1.62	1.53
1	AM	218	MET	SD-CE	-5.36	1.66	1.79
1	Ag	218	MET	SD-CE	-5.36	1.66	1.79
1	AF	218	MET	SD-CE	-5.36	1.66	1.79
1	Al	218	MET	SD-CE	-5.36	1.66	1.79
1	BD	218	MET	SD-CE	-5.36	1.66	1.79
2	C1	167	THR	CA-CB	5.36	1.62	1.53
2	Cl	167	THR	CA-CB	5.36	1.62	1.53
1	AH	218	MET	SD-CE	-5.36	1.66	1.79
1	AS	218	MET	SD-CE	-5.36	1.66	1.79
1	BB	218	MET	SD-CE	-5.36	1.66	1.79
2	CP	167	THR	CA-CB	5.36	1.62	1.53
1	Ad	218	MET	SD-CE	-5.35	1.66	1.79
1	Ao	218	MET	SD-CE	-5.35	1.66	1.79
2	CM	167	THR	CA-CB	5.35	1.62	1.53
2	CV	167	THR	CA-CB	5.35	1.62	1.53
2	Cx	167	THR	CA-CB	5.35	1.62	1.53
1	AW	218	MET	SD-CE	-5.35	1.66	1.79
1	BC	218	MET	SD-CE	-5.35	1.66	1.79
2	CH	167	THR	CA-CB	5.35	1.62	1.53
2	CK	167	THR	CA-CB	5.35	1.62	1.53
1	A1	218	MET	SD-CE	-5.35	1.66	1.79
1	A3	218	MET	SD-CE	-5.35	1.66	1.79
1	AG	218	MET	SD-CE	-5.35	1.66	1.79
1	AO	218	MET	SD-CE	-5.35	1.66	1.79
1	AP	218	MET	SD-CE	-5.35	1.66	1.79
2	C5	167	THR	CA-CB	5.35	1.62	1.53
1	A8	218	MET	SD-CE	-5.35	1.66	1.79
1	AC	218	MET	SD-CE	-5.35	1.66	1.79
1	AU	218	MET	SD-CE	-5.35	1.66	1.79
1	AY	218	MET	SD-CE	-5.35	1.66	1.79
1	Ab	218	MET	SD-CE	-5.35	1.66	1.79
2	Ca	167	THR	CA-CB	5.35	1.62	1.53
3	DS	125	VAL	CA-C	-5.35	1.48	1.53
1	A4	218	MET	SD-CE	-5.35	1.66	1.79
2	C9	167	THR	CA-CB	5.35	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	BI	218	MET	SD-CE	-5.34	1.66	1.79
2	Ca	148	PRO	CA-C	5.34	1.59	1.52
2	Cl	148	PRO	CA-C	5.34	1.59	1.52
2	Cq	167	THR	CA-CB	5.34	1.62	1.53
3	Do	125	VAL	CA-C	-5.34	1.48	1.53
1	AB	218	MET	SD-CE	-5.34	1.66	1.79
1	AD	218	MET	SD-CE	-5.34	1.66	1.79
1	A2	218	MET	SD-CE	-5.34	1.66	1.79
1	AQ	218	MET	SD-CE	-5.34	1.66	1.79
2	C7	167	THR	CA-CB	5.34	1.62	1.53
1	A9	218	MET	SD-CE	-5.34	1.66	1.79
1	AI	218	MET	SD-CE	-5.34	1.66	1.79
1	Aj	218	MET	SD-CE	-5.34	1.66	1.79
2	Ck	148	PRO	CA-C	5.34	1.59	1.52
2	CO	148	PRO	CA-C	5.33	1.59	1.52
1	Am	218	MET	SD-CE	-5.33	1.66	1.79
2	CC	148	PRO	CA-C	5.33	1.59	1.52
1	A0	218	MET	SD-CE	-5.33	1.66	1.79
1	AL	218	MET	SD-CE	-5.33	1.66	1.79
1	Aa	218	MET	SD-CE	-5.33	1.66	1.79
2	C3	167	THR	CA-CB	5.33	1.62	1.53
2	CF	148	PRO	CA-C	5.33	1.59	1.52
2	CT	148	PRO	CA-C	5.33	1.59	1.52
1	AA	218	MET	SD-CE	-5.33	1.66	1.79
1	AR	218	MET	SD-CE	-5.33	1.66	1.79
1	BA	218	MET	SD-CE	-5.33	1.66	1.79
2	CR	148	PRO	CA-C	5.33	1.59	1.52
2	Cf	167	THR	CA-CB	5.33	1.62	1.53
1	Ai	218	MET	SD-CE	-5.32	1.66	1.79
1	A5	218	MET	SD-CE	-5.32	1.66	1.79
1	AX	218	MET	SD-CE	-5.32	1.66	1.79
1	BH	218	MET	SD-CE	-5.32	1.66	1.79
2	Ct	213	MET	SD-CE	-5.32	1.66	1.79
3	EB	125	VAL	CA-C	-5.32	1.48	1.53
1	AZ	218	MET	SD-CE	-5.32	1.66	1.79
2	CN	213	MET	SD-CE	-5.32	1.66	1.79
2	Ct	148	PRO	CA-C	5.32	1.59	1.52
1	AJ	218	MET	SD-CE	-5.31	1.66	1.79
2	Cv	148	PRO	CA-C	5.31	1.59	1.52
2	Cx	148	PRO	CA-C	5.31	1.59	1.52
1	Ah	218	MET	SD-CE	-5.31	1.66	1.79
2	C2	148	PRO	CA-C	5.31	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C4	148	PRO	CA-C	5.31	1.59	1.52
2	Ca	213	MET	SD-CE	-5.31	1.66	1.79
2	C3	148	PRO	CA-C	5.31	1.59	1.52
2	CC	167	THR	CA-CB	5.31	1.62	1.53
2	CJ	213	MET	SD-CE	-5.31	1.66	1.79
3	Dh	125	VAL	CA-C	-5.31	1.48	1.53
1	BE	218	MET	SD-CE	-5.31	1.66	1.79
2	C0	148	PRO	CA-C	5.30	1.59	1.52
2	CD	148	PRO	CA-C	5.30	1.59	1.52
2	Ce	148	PRO	CA-C	5.30	1.59	1.52
3	Dp	125	VAL	CA-C	-5.30	1.48	1.53
2	CE	148	PRO	CA-C	5.30	1.59	1.52
2	Cd	213	MET	SD-CE	-5.30	1.66	1.79
2	Cg	167	THR	CA-CB	5.30	1.62	1.53
2	Cl	213	MET	SD-CE	-5.30	1.66	1.79
2	C6	213	MET	SD-CE	-5.30	1.66	1.79
2	CB	148	PRO	CA-C	5.30	1.59	1.52
2	CY	167	THR	CA-CB	5.30	1.62	1.53
2	Cv	167	THR	CA-CB	5.30	1.62	1.53
3	Dm	125	VAL	CA-C	-5.30	1.48	1.53
2	CI	148	PRO	CA-C	5.30	1.59	1.52
1	A7	218	MET	SD-CE	-5.30	1.66	1.79
2	C7	213	MET	SD-CE	-5.30	1.66	1.79
2	Ct	167	THR	CA-CB	5.30	1.62	1.53
1	An	218	MET	SD-CE	-5.29	1.66	1.79
1	Ak	218	MET	SD-CE	-5.29	1.66	1.79
3	EC	125	VAL	CA-C	-5.29	1.48	1.53
2	C4	213	MET	SD-CE	-5.29	1.66	1.79
2	CJ	167	THR	CA-CB	5.29	1.62	1.53
2	Cb	167	THR	CA-CB	5.29	1.62	1.53
2	Cb	148	PRO	CA-C	5.29	1.59	1.52
2	CN	148	PRO	CA-C	5.29	1.59	1.52
2	CY	148	PRO	CA-C	5.29	1.59	1.52
2	Cw	213	MET	SD-CE	-5.29	1.66	1.79
2	CU	213	MET	SD-CE	-5.29	1.66	1.79
2	Cb	213	MET	SD-CE	-5.29	1.66	1.79
2	C8	213	MET	SD-CE	-5.29	1.66	1.79
2	CA	148	PRO	CA-C	5.29	1.59	1.52
2	CC	213	MET	SD-CE	-5.29	1.66	1.79
2	CI	213	MET	SD-CE	-5.29	1.66	1.79
2	CL	148	PRO	CA-C	5.29	1.59	1.52
2	CL	213	MET	SD-CE	-5.29	1.66	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Cu	148	PRO	CA-C	5.29	1.59	1.52
3	Df	125	VAL	CA-C	-5.29	1.48	1.53
2	CH	213	MET	SD-CE	-5.28	1.66	1.79
2	CK	213	MET	SD-CE	-5.28	1.66	1.79
2	Cs	148	PRO	CA-C	5.28	1.59	1.52
2	CV	148	PRO	CA-C	5.28	1.59	1.52
2	Cn	148	PRO	CA-C	5.28	1.59	1.52
2	Ck	213	MET	SD-CE	-5.28	1.66	1.79
3	D0	125	VAL	CA-C	-5.28	1.48	1.53
3	DX	125	VAL	CA-C	-5.28	1.48	1.53
2	Cn	213	MET	SD-CE	-5.28	1.66	1.79
2	Cp	213	MET	SD-CE	-5.28	1.66	1.79
2	Cq	148	PRO	CA-C	5.28	1.59	1.52
2	Cq	213	MET	SD-CE	-5.28	1.66	1.79
2	Cw	148	PRO	CA-C	5.28	1.59	1.52
2	Cx	213	MET	SD-CE	-5.28	1.66	1.79
3	DH	125	VAL	CA-C	-5.28	1.48	1.53
2	C9	213	MET	SD-CE	-5.28	1.66	1.79
2	CD	213	MET	SD-CE	-5.28	1.66	1.79
2	CF	167	THR	CA-CB	5.28	1.62	1.53
2	Cc	213	MET	SD-CE	-5.28	1.66	1.79
2	Cr	213	MET	SD-CE	-5.28	1.66	1.79
2	C1	213	MET	SD-CE	-5.28	1.66	1.79
2	C5	213	MET	SD-CE	-5.28	1.66	1.79
2	CY	213	MET	SD-CE	-5.28	1.66	1.79
2	C5	148	PRO	CA-C	5.27	1.59	1.52
3	Da	125	VAL	CA-C	-5.27	1.48	1.53
3	Dr	125	VAL	CA-C	-5.27	1.48	1.53
2	CB	213	MET	SD-CE	-5.27	1.66	1.79
2	CF	213	MET	SD-CE	-5.27	1.66	1.79
3	DV	125	VAL	CA-C	-5.27	1.48	1.53
3	Dn	125	VAL	CA-C	-5.27	1.48	1.53
2	CG	167	THR	CA-CB	5.27	1.62	1.53
2	CO	213	MET	SD-CE	-5.27	1.66	1.79
2	Ce	213	MET	SD-CE	-5.27	1.66	1.79
2	Cu	213	MET	SD-CE	-5.27	1.66	1.79
3	Dg	125	VAL	CA-C	-5.27	1.48	1.53
2	CK	148	PRO	CA-C	5.27	1.59	1.52
2	Cg	213	MET	SD-CE	-5.26	1.66	1.79
3	DF	125	VAL	CA-C	-5.26	1.48	1.53
3	DN	125	VAL	CA-C	-5.26	1.48	1.53
2	CA	213	MET	SD-CE	-5.26	1.66	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C6	148	PRO	CA-C	5.26	1.59	1.52
2	CE	213	MET	SD-CE	-5.26	1.66	1.79
2	Cf	213	MET	SD-CE	-5.26	1.66	1.79
2	Ch	213	MET	SD-CE	-5.26	1.66	1.79
2	Cs	213	MET	SD-CE	-5.26	1.66	1.79
2	CQ	213	MET	SD-CE	-5.26	1.66	1.79
2	Cv	213	MET	SD-CE	-5.26	1.66	1.79
3	De	125	VAL	CA-C	-5.26	1.48	1.53
2	CV	213	MET	SD-CE	-5.26	1.66	1.79
3	DQ	125	VAL	CA-C	-5.26	1.48	1.53
2	CM	148	PRO	CA-C	5.26	1.59	1.52
2	CW	213	MET	SD-CE	-5.26	1.66	1.79
2	CX	148	PRO	CA-C	5.26	1.59	1.52
2	CX	213	MET	SD-CE	-5.26	1.66	1.79
3	Dq	125	VAL	CA-C	-5.26	1.48	1.53
2	C0	213	MET	SD-CE	-5.25	1.66	1.79
3	DT	125	VAL	CA-C	-5.25	1.48	1.53
2	CP	148	PRO	CA-C	5.25	1.59	1.52
2	CR	213	MET	SD-CE	-5.25	1.66	1.79
2	CW	148	PRO	CA-C	5.25	1.59	1.52
2	CZ	213	MET	SD-CE	-5.25	1.66	1.79
3	D4	125	VAL	CA-C	-5.25	1.48	1.53
2	C2	213	MET	SD-CE	-5.25	1.66	1.79
2	C3	213	MET	SD-CE	-5.25	1.66	1.79
2	CJ	148	PRO	CA-C	5.25	1.59	1.52
2	CT	213	MET	SD-CE	-5.25	1.66	1.79
2	Cc	148	PRO	CA-C	5.25	1.59	1.52
2	Cr	148	PRO	CA-C	5.25	1.59	1.52
2	C1	148	PRO	CA-C	5.25	1.59	1.52
2	CS	148	PRO	CA-C	5.25	1.59	1.52
3	Db	125	VAL	CA-C	-5.25	1.48	1.53
2	Cf	148	PRO	CA-C	5.25	1.59	1.52
2	Ch	148	PRO	CA-C	5.25	1.59	1.52
2	Cd	148	PRO	CA-C	5.25	1.59	1.52
3	D5	125	VAL	CA-C	-5.25	1.48	1.53
2	CM	213	MET	SD-CE	-5.24	1.66	1.79
2	Ci	148	PRO	CA-C	5.24	1.59	1.52
2	Co	148	PRO	CA-C	5.24	1.59	1.52
2	Cg	148	PRO	CA-C	5.24	1.59	1.52
3	D3	125	VAL	CA-C	-5.24	1.48	1.53
3	D7	125	VAL	CA-C	-5.24	1.48	1.53
2	Cj	213	MET	SD-CE	-5.24	1.66	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Co	213	MET	SD-CE	-5.24	1.66	1.79
3	DL	125	VAL	CA-C	-5.24	1.48	1.53
3	DI	125	VAL	CA-C	-5.24	1.48	1.53
2	CZ	148	PRO	CA-C	5.24	1.59	1.52
3	DG	125	VAL	CA-C	-5.24	1.48	1.53
2	CS	213	MET	SD-CE	-5.24	1.66	1.79
2	Cm	148	PRO	CA-C	5.24	1.59	1.52
3	DZ	125	VAL	CA-C	-5.24	1.48	1.53
2	Cm	213	MET	SD-CE	-5.23	1.66	1.79
3	DW	125	VAL	CA-C	-5.23	1.48	1.53
3	Dj	125	VAL	CA-C	-5.23	1.48	1.53
3	Ds	125	VAL	CA-C	-5.23	1.48	1.53
3	DI	125	VAL	CA-C	-5.23	1.48	1.53
2	Ci	213	MET	SD-CE	-5.23	1.66	1.79
2	CG	213	MET	SD-CE	-5.22	1.66	1.79
2	C9	148	PRO	CA-C	5.22	1.59	1.52
3	DK	125	VAL	CA-C	-5.22	1.48	1.53
2	CP	213	MET	SD-CE	-5.22	1.66	1.79
3	DY	125	VAL	CA-C	-5.22	1.48	1.53
3	D2	125	VAL	CA-C	-5.22	1.48	1.53
3	Dd	125	VAL	CA-C	-5.22	1.48	1.53
2	CU	148	PRO	CA-C	5.21	1.59	1.52
2	CQ	148	PRO	CA-C	5.21	1.59	1.52
3	Dc	125	VAL	CA-C	-5.21	1.48	1.53
3	D8	125	VAL	CA-C	-5.21	1.48	1.53
3	ED	125	VAL	CA-C	-5.21	1.48	1.53
3	EA	125	VAL	CA-C	-5.20	1.48	1.53
3	DC	125	VAL	CA-C	-5.20	1.48	1.53
2	Cp	148	PRO	CA-C	5.20	1.59	1.52
2	C7	148	PRO	CA-C	5.19	1.59	1.52
3	DD	125	VAL	CA-C	-5.19	1.48	1.53
3	D1	125	VAL	CA-C	-5.19	1.48	1.53
3	DJ	125	VAL	CA-C	-5.19	1.48	1.53
2	CH	148	PRO	CA-C	5.18	1.59	1.52
3	DE	125	VAL	CA-C	-5.17	1.48	1.53
3	D6	125	VAL	CA-C	-5.17	1.48	1.53
3	DO	125	VAL	CA-C	-5.16	1.48	1.53
3	DP	125	VAL	CA-C	-5.16	1.48	1.53
3	DA	125	VAL	CA-C	-5.15	1.48	1.53
3	D9	125	VAL	CA-C	-5.15	1.48	1.53
3	Dk	125	VAL	CA-C	-5.15	1.48	1.53
3	DM	125	VAL	CA-C	-5.13	1.48	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	EE	125	VAL	CA-C	-5.12	1.48	1.53
3	DB	125	VAL	CA-C	-5.12	1.48	1.53
3	DR	125	VAL	CA-C	-5.11	1.48	1.53
3	Dm	126	PRO	CA-C	5.01	1.56	1.52

All (7997) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AN	139	SER	CA-C-N	12.36	135.29	119.84
1	AN	139	SER	C-N-CA	12.36	135.29	119.84
1	BA	139	SER	CA-C-N	12.36	135.28	119.84
1	BA	139	SER	C-N-CA	12.36	135.28	119.84
1	AG	139	SER	CA-C-N	12.34	135.27	119.84
1	AG	139	SER	C-N-CA	12.34	135.27	119.84
1	AI	139	SER	CA-C-N	12.34	135.27	119.84
1	AI	139	SER	C-N-CA	12.34	135.27	119.84
1	Al	139	SER	CA-C-N	12.34	135.27	119.84
1	Al	139	SER	C-N-CA	12.34	135.27	119.84
1	AK	139	SER	CA-C-N	12.34	135.27	119.84
1	AK	139	SER	C-N-CA	12.34	135.27	119.84
1	A4	139	SER	CA-C-N	12.33	135.25	119.84
1	A4	139	SER	C-N-CA	12.33	135.25	119.84
1	A6	139	SER	CA-C-N	12.32	135.25	119.84
1	A6	139	SER	C-N-CA	12.32	135.25	119.84
1	Ag	139	SER	CA-C-N	12.32	135.25	119.84
1	Ag	139	SER	C-N-CA	12.32	135.25	119.84
1	A0	139	SER	CA-C-N	12.32	135.24	119.84
1	A0	139	SER	C-N-CA	12.32	135.24	119.84
1	AU	139	SER	CA-C-N	12.32	135.24	119.84
1	AU	139	SER	C-N-CA	12.32	135.24	119.84
1	A7	139	SER	CA-C-N	12.32	135.24	119.84
1	A7	139	SER	C-N-CA	12.32	135.24	119.84
1	AV	139	SER	CA-C-N	12.32	135.24	119.84
1	AV	139	SER	C-N-CA	12.32	135.24	119.84
1	AD	139	SER	CA-C-N	12.31	135.23	119.84
1	AD	139	SER	C-N-CA	12.31	135.23	119.84
1	BF	139	SER	CA-C-N	12.31	135.23	119.84
1	BF	139	SER	C-N-CA	12.31	135.23	119.84
1	Ak	139	SER	CA-C-N	12.31	135.23	119.84
1	Ak	139	SER	C-N-CA	12.31	135.23	119.84
1	AH	139	SER	CA-C-N	12.31	135.22	119.84
1	AH	139	SER	C-N-CA	12.31	135.22	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AZ	139	SER	CA-C-N	12.30	135.22	119.84
1	AZ	139	SER	C-N-CA	12.30	135.22	119.84
1	An	139	SER	CA-C-N	12.30	135.22	119.84
1	An	139	SER	C-N-CA	12.30	135.22	119.84
1	BG	139	SER	CA-C-N	12.30	135.22	119.84
1	BG	139	SER	C-N-CA	12.30	135.22	119.84
1	BI	139	SER	CA-C-N	12.30	135.22	119.84
1	BI	139	SER	C-N-CA	12.30	135.22	119.84
1	A3	139	SER	CA-C-N	12.30	135.22	119.84
1	A3	139	SER	C-N-CA	12.30	135.22	119.84
1	A8	139	SER	CA-C-N	12.30	135.21	119.84
1	A8	139	SER	C-N-CA	12.30	135.21	119.84
1	BD	139	SER	CA-C-N	12.30	135.21	119.84
1	BD	139	SER	C-N-CA	12.30	135.21	119.84
1	Aj	139	SER	CA-C-N	12.30	135.21	119.84
1	Aj	139	SER	C-N-CA	12.30	135.21	119.84
1	Ao	139	SER	CA-C-N	12.30	135.21	119.84
1	Ao	139	SER	C-N-CA	12.30	135.21	119.84
1	BE	139	SER	CA-C-N	12.29	135.21	119.84
1	BE	139	SER	C-N-CA	12.29	135.21	119.84
1	AP	139	SER	CA-C-N	12.29	135.20	119.84
1	AP	139	SER	C-N-CA	12.29	135.20	119.84
1	AF	139	SER	CA-C-N	12.29	135.20	119.84
1	AF	139	SER	C-N-CA	12.29	135.20	119.84
1	AT	139	SER	CA-C-N	12.29	135.20	119.84
1	AT	139	SER	C-N-CA	12.29	135.20	119.84
1	Aa	139	SER	CA-C-N	12.29	135.20	119.84
1	Aa	139	SER	C-N-CA	12.29	135.20	119.84
1	AB	139	SER	CA-C-N	12.29	135.20	119.84
1	AB	139	SER	C-N-CA	12.29	135.20	119.84
1	AM	139	SER	CA-C-N	12.29	135.20	119.84
1	AM	139	SER	C-N-CA	12.29	135.20	119.84
1	AR	139	SER	CA-C-N	12.29	135.20	119.84
1	AR	139	SER	C-N-CA	12.29	135.20	119.84
1	AY	139	SER	CA-C-N	12.29	135.20	119.84
1	AY	139	SER	C-N-CA	12.29	135.20	119.84
1	BC	139	SER	CA-C-N	12.29	135.20	119.84
1	BC	139	SER	C-N-CA	12.29	135.20	119.84
1	A1	139	SER	CA-C-N	12.28	135.19	119.84
1	A1	139	SER	C-N-CA	12.28	135.19	119.84
1	Ah	139	SER	CA-C-N	12.28	135.19	119.84
1	Ah	139	SER	C-N-CA	12.28	135.19	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	139	SER	CA-C-N	12.28	135.19	119.84
1	AE	139	SER	C-N-CA	12.28	135.19	119.84
1	AS	139	SER	CA-C-N	12.28	135.19	119.84
1	AS	139	SER	C-N-CA	12.28	135.19	119.84
1	AX	139	SER	CA-C-N	12.28	135.19	119.84
1	AX	139	SER	C-N-CA	12.28	135.19	119.84
1	Am	139	SER	CA-C-N	12.28	135.19	119.84
1	Am	139	SER	C-N-CA	12.28	135.19	119.84
1	BB	139	SER	CA-C-N	12.28	135.19	119.84
1	BB	139	SER	C-N-CA	12.28	135.19	119.84
1	A5	139	SER	CA-C-N	12.28	135.19	119.84
1	A5	139	SER	C-N-CA	12.28	135.19	119.84
1	AA	139	SER	CA-C-N	12.28	135.19	119.84
1	AA	139	SER	C-N-CA	12.28	135.19	119.84
1	A9	139	SER	CA-C-N	12.27	135.18	119.84
1	A9	139	SER	C-N-CA	12.27	135.18	119.84
1	AW	139	SER	CA-C-N	12.26	135.17	119.84
1	AW	139	SER	C-N-CA	12.26	135.17	119.84
1	Ab	139	SER	CA-C-N	12.26	135.17	119.84
1	Ab	139	SER	C-N-CA	12.26	135.17	119.84
1	Ac	139	SER	CA-C-N	12.26	135.17	119.84
1	Ac	139	SER	C-N-CA	12.26	135.17	119.84
1	Af	139	SER	CA-C-N	12.26	135.17	119.84
1	Af	139	SER	C-N-CA	12.26	135.17	119.84
1	BH	139	SER	CA-C-N	12.26	135.17	119.84
1	BH	139	SER	C-N-CA	12.26	135.17	119.84
1	Ai	139	SER	CA-C-N	12.26	135.16	119.84
1	Ai	139	SER	C-N-CA	12.26	135.16	119.84
1	AO	139	SER	CA-C-N	12.25	135.16	119.84
1	AO	139	SER	C-N-CA	12.25	135.16	119.84
1	AJ	139	SER	CA-C-N	12.25	135.15	119.84
1	AJ	139	SER	C-N-CA	12.25	135.15	119.84
1	AL	139	SER	CA-C-N	12.25	135.15	119.84
1	AL	139	SER	C-N-CA	12.25	135.15	119.84
1	AQ	139	SER	CA-C-N	12.25	135.15	119.84
1	AQ	139	SER	C-N-CA	12.25	135.15	119.84
1	Ad	139	SER	CA-C-N	12.24	135.13	119.84
1	Ad	139	SER	C-N-CA	12.24	135.13	119.84
1	AC	139	SER	CA-C-N	12.23	135.13	119.84
1	AC	139	SER	C-N-CA	12.23	135.13	119.84
1	Ae	139	SER	CA-C-N	12.22	135.12	119.84
1	Ae	139	SER	C-N-CA	12.22	135.12	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A2	139	SER	CA-C-N	12.21	135.10	119.84
1	A2	139	SER	C-N-CA	12.21	135.10	119.84
2	CL	55	GLY	CA-C-N	11.18	131.46	119.05
2	CL	55	GLY	C-N-CA	11.18	131.46	119.05
2	C3	55	GLY	CA-C-N	11.17	131.45	119.05
2	C3	55	GLY	C-N-CA	11.17	131.45	119.05
2	CZ	55	GLY	CA-C-N	11.16	131.44	119.05
2	CZ	55	GLY	C-N-CA	11.16	131.44	119.05
2	CN	55	GLY	CA-C-N	11.16	131.44	119.05
2	CN	55	GLY	C-N-CA	11.16	131.44	119.05
2	Cq	55	GLY	CA-C-N	11.16	131.44	119.05
2	Cq	55	GLY	C-N-CA	11.16	131.44	119.05
2	Cs	55	GLY	CA-C-N	11.16	131.44	119.05
2	Cs	55	GLY	C-N-CA	11.16	131.44	119.05
2	C9	55	GLY	CA-C-N	11.15	131.43	119.05
2	C9	55	GLY	C-N-CA	11.15	131.43	119.05
2	CM	55	GLY	CA-C-N	11.15	131.43	119.05
2	CM	55	GLY	C-N-CA	11.15	131.43	119.05
2	Cd	55	GLY	CA-C-N	11.14	131.42	119.05
2	Cd	55	GLY	C-N-CA	11.14	131.42	119.05
2	CV	55	GLY	CA-C-N	11.14	131.42	119.05
2	CV	55	GLY	C-N-CA	11.14	131.42	119.05
2	CU	55	GLY	CA-C-N	11.13	131.41	119.05
2	CU	55	GLY	C-N-CA	11.13	131.41	119.05
2	C6	55	GLY	CA-C-N	11.13	131.40	119.05
2	C6	55	GLY	C-N-CA	11.13	131.40	119.05
2	C8	55	GLY	CA-C-N	11.12	131.40	119.05
2	C8	55	GLY	C-N-CA	11.12	131.40	119.05
2	Cx	55	GLY	CA-C-N	11.13	131.40	119.05
2	Cx	55	GLY	C-N-CA	11.13	131.40	119.05
2	CY	55	GLY	CA-C-N	11.12	131.40	119.05
2	CY	55	GLY	C-N-CA	11.12	131.40	119.05
2	CQ	55	GLY	CA-C-N	11.12	131.39	119.05
2	CQ	55	GLY	C-N-CA	11.12	131.39	119.05
2	Ce	55	GLY	CA-C-N	11.12	131.39	119.05
2	Ce	55	GLY	C-N-CA	11.12	131.39	119.05
2	CC	55	GLY	CA-C-N	11.12	131.39	119.05
2	CC	55	GLY	C-N-CA	11.12	131.39	119.05
2	Cf	55	GLY	CA-C-N	11.11	131.39	119.05
2	Cf	55	GLY	C-N-CA	11.11	131.39	119.05
2	C0	55	GLY	CA-C-N	11.11	131.39	119.05
2	C0	55	GLY	C-N-CA	11.11	131.39	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CP	55	GLY	CA-C-N	11.11	131.39	119.05
2	CP	55	GLY	C-N-CA	11.11	131.39	119.05
2	CX	55	GLY	CA-C-N	11.11	131.38	119.05
2	CX	55	GLY	C-N-CA	11.11	131.38	119.05
2	Cv	55	GLY	CA-C-N	11.11	131.38	119.05
2	Cv	55	GLY	C-N-CA	11.11	131.38	119.05
2	C7	55	GLY	CA-C-N	11.11	131.38	119.05
2	C7	55	GLY	C-N-CA	11.11	131.38	119.05
2	Ca	55	GLY	CA-C-N	11.11	131.38	119.05
2	Ca	55	GLY	C-N-CA	11.11	131.38	119.05
2	Cb	55	GLY	CA-C-N	11.11	131.38	119.05
2	Cb	55	GLY	C-N-CA	11.11	131.38	119.05
2	Cj	55	GLY	CA-C-N	11.11	131.38	119.05
2	Cj	55	GLY	C-N-CA	11.11	131.38	119.05
2	Cl	55	GLY	CA-C-N	11.11	131.38	119.05
2	Cl	55	GLY	C-N-CA	11.11	131.38	119.05
2	Cg	55	GLY	CA-C-N	11.10	131.38	119.05
2	Cg	55	GLY	C-N-CA	11.10	131.38	119.05
2	C5	55	GLY	CA-C-N	11.10	131.37	119.05
2	C5	55	GLY	C-N-CA	11.10	131.37	119.05
2	CF	55	GLY	CA-C-N	11.10	131.37	119.05
2	CF	55	GLY	C-N-CA	11.10	131.37	119.05
2	CK	55	GLY	CA-C-N	11.10	131.37	119.05
2	CK	55	GLY	C-N-CA	11.10	131.37	119.05
2	Cc	55	GLY	CA-C-N	11.10	131.37	119.05
2	Cc	55	GLY	C-N-CA	11.10	131.37	119.05
2	Ch	55	GLY	CA-C-N	11.10	131.37	119.05
2	Ch	55	GLY	C-N-CA	11.10	131.37	119.05
2	C1	55	GLY	CA-C-N	11.10	131.37	119.05
2	C1	55	GLY	C-N-CA	11.10	131.37	119.05
2	CA	55	GLY	CA-C-N	11.10	131.37	119.05
2	CA	55	GLY	C-N-CA	11.10	131.37	119.05
2	CD	55	GLY	CA-C-N	11.10	131.37	119.05
2	CD	55	GLY	C-N-CA	11.10	131.37	119.05
2	CW	55	GLY	CA-C-N	11.10	131.37	119.05
2	CW	55	GLY	C-N-CA	11.10	131.37	119.05
2	Cn	55	GLY	CA-C-N	11.10	131.37	119.05
2	Cn	55	GLY	C-N-CA	11.10	131.37	119.05
2	C2	55	GLY	CA-C-N	11.10	131.37	119.05
2	C2	55	GLY	C-N-CA	11.10	131.37	119.05
2	CE	55	GLY	CA-C-N	11.09	131.36	119.05
2	CE	55	GLY	C-N-CA	11.09	131.36	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Co	55	GLY	CA-C-N	11.09	131.36	119.05
2	Co	55	GLY	C-N-CA	11.09	131.36	119.05
2	CH	55	GLY	CA-C-N	11.09	131.36	119.05
2	CH	55	GLY	C-N-CA	11.09	131.36	119.05
2	Ck	55	GLY	CA-C-N	11.09	131.35	119.05
2	Ck	55	GLY	C-N-CA	11.09	131.35	119.05
2	CG	55	GLY	CA-C-N	11.08	131.35	119.05
2	CG	55	GLY	C-N-CA	11.08	131.35	119.05
2	CT	55	GLY	CA-C-N	11.08	131.35	119.05
2	CT	55	GLY	C-N-CA	11.08	131.35	119.05
2	Ct	55	GLY	CA-C-N	11.08	131.35	119.05
2	Ct	55	GLY	C-N-CA	11.08	131.35	119.05
2	CO	55	GLY	CA-C-N	11.08	131.35	119.05
2	CO	55	GLY	C-N-CA	11.08	131.35	119.05
2	Cw	55	GLY	CA-C-N	11.08	131.35	119.05
2	Cw	55	GLY	C-N-CA	11.08	131.35	119.05
2	Cr	55	GLY	CA-C-N	11.08	131.34	119.05
2	Cr	55	GLY	C-N-CA	11.08	131.34	119.05
2	Cu	55	GLY	CA-C-N	11.08	131.34	119.05
2	Cu	55	GLY	C-N-CA	11.08	131.34	119.05
2	CI	55	GLY	CA-C-N	11.07	131.34	119.05
2	CI	55	GLY	C-N-CA	11.07	131.34	119.05
2	CS	55	GLY	CA-C-N	11.06	131.33	119.05
2	CS	55	GLY	C-N-CA	11.06	131.33	119.05
2	CJ	55	GLY	CA-C-N	11.06	131.33	119.05
2	CJ	55	GLY	C-N-CA	11.06	131.33	119.05
2	CR	55	GLY	CA-C-N	11.06	131.32	119.05
2	CR	55	GLY	C-N-CA	11.06	131.32	119.05
2	Ci	55	GLY	CA-C-N	11.05	131.32	119.05
2	Ci	55	GLY	C-N-CA	11.05	131.32	119.05
2	Cp	55	GLY	CA-C-N	11.05	131.31	119.05
2	Cp	55	GLY	C-N-CA	11.05	131.31	119.05
2	C4	55	GLY	CA-C-N	11.04	131.31	119.05
2	C4	55	GLY	C-N-CA	11.04	131.31	119.05
2	CB	55	GLY	CA-C-N	11.04	131.31	119.05
2	CB	55	GLY	C-N-CA	11.04	131.31	119.05
2	Cm	55	GLY	CA-C-N	11.04	131.31	119.05
2	Cm	55	GLY	C-N-CA	11.04	131.31	119.05
1	Ao	70	ARG	N-CA-C	-10.70	94.44	110.28
1	A2	70	ARG	N-CA-C	-10.69	94.46	110.28
1	A3	70	ARG	N-CA-C	-10.69	94.46	110.28
1	Af	70	ARG	N-CA-C	-10.69	94.46	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	70	ARG	N-CA-C	-10.69	94.46	110.28
1	AU	70	ARG	N-CA-C	-10.69	94.46	110.28
1	AP	70	ARG	N-CA-C	-10.68	94.47	110.28
1	AY	70	ARG	N-CA-C	-10.68	94.47	110.28
1	An	70	ARG	N-CA-C	-10.68	94.47	110.28
1	AF	70	ARG	N-CA-C	-10.68	94.47	110.28
1	AI	70	ARG	N-CA-C	-10.67	94.48	110.28
1	Am	70	ARG	N-CA-C	-10.67	94.49	110.28
1	AK	70	ARG	N-CA-C	-10.67	94.49	110.28
1	Ac	70	ARG	N-CA-C	-10.67	94.49	110.28
1	AV	70	ARG	N-CA-C	-10.67	94.49	110.28
1	AW	70	ARG	N-CA-C	-10.67	94.49	110.28
1	AA	70	ARG	N-CA-C	-10.67	94.50	110.28
1	AS	70	ARG	N-CA-C	-10.66	94.50	110.28
1	Ak	70	ARG	N-CA-C	-10.66	94.50	110.28
1	AL	70	ARG	N-CA-C	-10.66	94.50	110.28
1	AN	70	ARG	N-CA-C	-10.66	94.50	110.28
1	AQ	70	ARG	N-CA-C	-10.66	94.50	110.28
1	AX	70	ARG	N-CA-C	-10.66	94.50	110.28
1	BI	70	ARG	N-CA-C	-10.66	94.50	110.28
1	Aj	70	ARG	N-CA-C	-10.66	94.51	110.28
1	BD	70	ARG	N-CA-C	-10.66	94.51	110.28
1	AZ	70	ARG	N-CA-C	-10.65	94.51	110.28
1	Ai	70	ARG	N-CA-C	-10.65	94.51	110.28
1	BB	70	ARG	N-CA-C	-10.65	94.51	110.28
1	BG	70	ARG	N-CA-C	-10.65	94.51	110.28
1	A6	70	ARG	N-CA-C	-10.65	94.52	110.28
1	AJ	70	ARG	N-CA-C	-10.65	94.52	110.28
1	Aa	70	ARG	N-CA-C	-10.65	94.52	110.28
1	AT	70	ARG	N-CA-C	-10.65	94.52	110.28
1	Ab	70	ARG	N-CA-C	-10.65	94.52	110.28
1	A4	70	ARG	N-CA-C	-10.65	94.53	110.28
1	AR	70	ARG	N-CA-C	-10.65	94.52	110.28
1	Ae	70	ARG	N-CA-C	-10.65	94.52	110.28
1	A5	70	ARG	N-CA-C	-10.64	94.53	110.28
1	A7	70	ARG	N-CA-C	-10.64	94.53	110.28
1	AH	70	ARG	N-CA-C	-10.64	94.53	110.28
1	AM	70	ARG	N-CA-C	-10.64	94.53	110.28
1	A0	70	ARG	N-CA-C	-10.64	94.53	110.28
1	A1	70	ARG	N-CA-C	-10.64	94.53	110.28
1	A9	70	ARG	N-CA-C	-10.64	94.53	110.28
1	Ad	70	ARG	N-CA-C	-10.64	94.53	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AB	70	ARG	N-CA-C	-10.64	94.54	110.28
1	Al	70	ARG	N-CA-C	-10.64	94.54	110.28
1	BA	70	ARG	N-CA-C	-10.64	94.53	110.28
1	BC	70	ARG	N-CA-C	-10.64	94.54	110.28
1	BE	70	ARG	N-CA-C	-10.64	94.54	110.28
1	BF	70	ARG	N-CA-C	-10.64	94.54	110.28
1	Ag	70	ARG	N-CA-C	-10.63	94.54	110.28
1	AC	70	ARG	N-CA-C	-10.63	94.55	110.28
1	AG	70	ARG	N-CA-C	-10.63	94.55	110.28
1	AD	70	ARG	N-CA-C	-10.62	94.56	110.28
1	Ah	70	ARG	N-CA-C	-10.62	94.56	110.28
1	AO	70	ARG	N-CA-C	-10.62	94.56	110.28
1	BH	70	ARG	N-CA-C	-10.62	94.57	110.28
1	A8	70	ARG	N-CA-C	-10.62	94.57	110.28
3	DO	44	ILE	N-CA-C	-10.52	100.32	110.42
3	DL	44	ILE	N-CA-C	-10.52	100.33	110.42
3	DV	44	ILE	N-CA-C	-10.51	100.33	110.42
3	DA	44	ILE	N-CA-C	-10.50	100.34	110.42
3	DH	44	ILE	N-CA-C	-10.49	100.35	110.42
3	Dn	44	ILE	N-CA-C	-10.48	100.36	110.42
3	DS	44	ILE	N-CA-C	-10.48	100.36	110.42
3	DQ	44	ILE	N-CA-C	-10.47	100.36	110.42
3	EA	44	ILE	N-CA-C	-10.47	100.37	110.42
3	D0	44	ILE	N-CA-C	-10.47	100.37	110.42
3	DU	44	ILE	N-CA-C	-10.47	100.37	110.42
3	Df	44	ILE	N-CA-C	-10.47	100.37	110.42
3	D3	44	ILE	N-CA-C	-10.46	100.38	110.42
3	DF	44	ILE	N-CA-C	-10.46	100.38	110.42
3	Dj	44	ILE	N-CA-C	-10.46	100.38	110.42
3	D6	44	ILE	N-CA-C	-10.46	100.38	110.42
3	DD	44	ILE	N-CA-C	-10.46	100.38	110.42
3	DK	44	ILE	N-CA-C	-10.46	100.38	110.42
3	Do	44	ILE	N-CA-C	-10.46	100.38	110.42
3	D9	44	ILE	N-CA-C	-10.46	100.38	110.42
3	DI	44	ILE	N-CA-C	-10.45	100.39	110.42
3	Dk	44	ILE	N-CA-C	-10.45	100.39	110.42
3	Dh	44	ILE	N-CA-C	-10.45	100.39	110.42
3	D8	44	ILE	N-CA-C	-10.45	100.39	110.42
3	DN	44	ILE	N-CA-C	-10.45	100.39	110.42
3	DG	44	ILE	N-CA-C	-10.44	100.39	110.42
2	CL	224	GLY	CA-C-N	10.44	130.37	120.03
2	CL	224	GLY	C-N-CA	10.44	130.37	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DY	44	ILE	N-CA-C	-10.44	100.40	110.42
3	DW	44	ILE	N-CA-C	-10.44	100.40	110.42
3	Dg	44	ILE	N-CA-C	-10.44	100.40	110.42
3	Dl	44	ILE	N-CA-C	-10.44	100.40	110.42
3	ED	44	ILE	N-CA-C	-10.44	100.40	110.42
3	Da	44	ILE	N-CA-C	-10.43	100.40	110.42
2	Cv	224	GLY	CA-C-N	10.43	130.36	120.03
2	Cv	224	GLY	C-N-CA	10.43	130.36	120.03
2	CK	224	GLY	CA-C-N	10.43	130.35	120.03
2	CK	224	GLY	C-N-CA	10.43	130.35	120.03
3	DE	44	ILE	N-CA-C	-10.43	100.41	110.42
3	DX	44	ILE	N-CA-C	-10.43	100.41	110.42
3	Ds	44	ILE	N-CA-C	-10.43	100.41	110.42
3	DB	44	ILE	N-CA-C	-10.43	100.41	110.42
2	Ck	224	GLY	CA-C-N	10.42	130.35	120.03
2	Ck	224	GLY	C-N-CA	10.42	130.35	120.03
3	DM	44	ILE	N-CA-C	-10.42	100.41	110.42
2	C4	224	GLY	CA-C-N	10.42	130.34	120.03
2	C4	224	GLY	C-N-CA	10.42	130.34	120.03
3	EB	44	ILE	N-CA-C	-10.42	100.42	110.42
2	CN	224	GLY	CA-C-N	10.41	130.34	120.03
2	CN	224	GLY	C-N-CA	10.41	130.34	120.03
3	Dm	44	ILE	N-CA-C	-10.41	100.42	110.42
3	Dq	44	ILE	N-CA-C	-10.41	100.42	110.42
3	DC	44	ILE	N-CA-C	-10.41	100.42	110.42
3	EE	44	ILE	N-CA-C	-10.41	100.42	110.42
3	DZ	44	ILE	N-CA-C	-10.41	100.43	110.42
3	Dc	44	ILE	N-CA-C	-10.41	100.43	110.42
3	EC	44	ILE	N-CA-C	-10.41	100.43	110.42
3	D5	44	ILE	N-CA-C	-10.41	100.43	110.42
2	CI	224	GLY	CA-C-N	10.40	130.33	120.03
2	CI	224	GLY	C-N-CA	10.40	130.33	120.03
2	Cs	224	GLY	CA-C-N	10.40	130.33	120.03
2	Cs	224	GLY	C-N-CA	10.40	130.33	120.03
3	D1	44	ILE	N-CA-C	-10.40	100.43	110.42
3	De	44	ILE	N-CA-C	-10.40	100.43	110.42
2	CO	224	GLY	CA-C-N	10.40	130.32	120.03
2	CO	224	GLY	C-N-CA	10.40	130.32	120.03
2	Cd	224	GLY	CA-C-N	10.40	130.32	120.03
2	Cd	224	GLY	C-N-CA	10.40	130.32	120.03
2	Ci	224	GLY	CA-C-N	10.40	130.32	120.03
2	Ci	224	GLY	C-N-CA	10.40	130.32	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D2	44	ILE	N-CA-C	-10.40	100.44	110.42
3	D4	44	ILE	N-CA-C	-10.39	100.44	110.42
2	CQ	224	GLY	CA-C-N	10.39	130.32	120.03
2	CQ	224	GLY	C-N-CA	10.39	130.32	120.03
3	DT	44	ILE	N-CA-C	-10.39	100.44	110.42
3	Di	44	ILE	N-CA-C	-10.39	100.44	110.42
2	C5	224	GLY	CA-C-N	10.39	130.32	120.03
2	C5	224	GLY	C-N-CA	10.39	130.32	120.03
2	CC	224	GLY	CA-C-N	10.39	130.31	120.03
2	CC	224	GLY	C-N-CA	10.39	130.31	120.03
2	CJ	224	GLY	CA-C-N	10.39	130.31	120.03
2	CJ	224	GLY	C-N-CA	10.39	130.31	120.03
2	CM	224	GLY	CA-C-N	10.39	130.31	120.03
2	CM	224	GLY	C-N-CA	10.39	130.31	120.03
3	Dd	44	ILE	N-CA-C	-10.38	100.45	110.42
3	Dr	44	ILE	N-CA-C	-10.39	100.45	110.42
3	DR	44	ILE	N-CA-C	-10.38	100.45	110.42
2	Cr	224	GLY	CA-C-N	10.38	130.30	120.03
2	Cr	224	GLY	C-N-CA	10.38	130.30	120.03
2	CR	224	GLY	CA-C-N	10.38	130.30	120.03
2	CR	224	GLY	C-N-CA	10.38	130.30	120.03
2	Ce	224	GLY	CA-C-N	10.38	130.30	120.03
2	Ce	224	GLY	C-N-CA	10.38	130.30	120.03
2	Cm	224	GLY	CA-C-N	10.37	130.30	120.03
2	Cm	224	GLY	C-N-CA	10.37	130.30	120.03
3	DJ	44	ILE	N-CA-C	-10.37	100.46	110.42
2	CE	224	GLY	CA-C-N	10.37	130.29	120.03
2	CE	224	GLY	C-N-CA	10.37	130.29	120.03
2	CG	224	GLY	CA-C-N	10.37	130.30	120.03
2	CG	224	GLY	C-N-CA	10.37	130.30	120.03
3	DP	44	ILE	N-CA-C	-10.37	100.47	110.42
3	Db	44	ILE	N-CA-C	-10.37	100.47	110.42
2	CP	224	GLY	CA-C-N	10.36	130.29	120.03
2	CP	224	GLY	C-N-CA	10.36	130.29	120.03
2	Cc	224	GLY	CA-C-N	10.36	130.29	120.03
2	Cc	224	GLY	C-N-CA	10.36	130.29	120.03
3	D7	44	ILE	N-CA-C	-10.36	100.47	110.42
2	CS	224	GLY	CA-C-N	10.36	130.29	120.03
2	CS	224	GLY	C-N-CA	10.36	130.29	120.03
2	Ca	224	GLY	CA-C-N	10.36	130.28	120.03
2	Ca	224	GLY	C-N-CA	10.36	130.28	120.03
2	Co	224	GLY	CA-C-N	10.36	130.29	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Co	224	GLY	C-N-CA	10.36	130.29	120.03
2	Cl	224	GLY	CA-C-N	10.36	130.28	120.03
2	Cl	224	GLY	C-N-CA	10.36	130.28	120.03
2	CF	224	GLY	CA-C-N	10.36	130.28	120.03
2	CF	224	GLY	C-N-CA	10.36	130.28	120.03
2	Cp	224	GLY	CA-C-N	10.36	130.28	120.03
2	Cp	224	GLY	C-N-CA	10.36	130.28	120.03
2	CT	224	GLY	CA-C-N	10.35	130.28	120.03
2	CT	224	GLY	C-N-CA	10.35	130.28	120.03
2	Cn	224	GLY	CA-C-N	10.35	130.28	120.03
2	Cn	224	GLY	C-N-CA	10.35	130.28	120.03
2	C8	224	GLY	CA-C-N	10.35	130.28	120.03
2	C8	224	GLY	C-N-CA	10.35	130.28	120.03
2	CV	224	GLY	CA-C-N	10.35	130.28	120.03
2	CV	224	GLY	C-N-CA	10.35	130.28	120.03
3	Dp	44	ILE	N-CA-C	-10.35	100.48	110.42
2	CX	224	GLY	CA-C-N	10.35	130.28	120.03
2	CX	224	GLY	C-N-CA	10.35	130.28	120.03
2	CY	224	GLY	CA-C-N	10.35	130.28	120.03
2	CY	224	GLY	C-N-CA	10.35	130.28	120.03
1	AK	9	GLU	CA-C-N	10.35	132.78	119.84
1	AK	9	GLU	C-N-CA	10.35	132.78	119.84
2	C7	224	GLY	CA-C-N	10.35	130.27	120.03
2	C7	224	GLY	C-N-CA	10.35	130.27	120.03
2	CB	224	GLY	CA-C-N	10.34	130.26	120.03
2	CB	224	GLY	C-N-CA	10.34	130.26	120.03
2	Ct	224	GLY	CA-C-N	10.34	130.27	120.03
2	Ct	224	GLY	C-N-CA	10.34	130.27	120.03
1	BF	9	GLU	CA-C-N	10.34	132.76	119.84
1	BF	9	GLU	C-N-CA	10.34	132.76	119.84
1	A1	9	GLU	CA-C-N	10.33	132.76	119.84
1	A1	9	GLU	C-N-CA	10.33	132.76	119.84
2	Cx	224	GLY	CA-C-N	10.33	130.26	120.03
2	Cx	224	GLY	C-N-CA	10.33	130.26	120.03
2	C9	224	GLY	CA-C-N	10.33	130.26	120.03
2	C9	224	GLY	C-N-CA	10.33	130.26	120.03
2	CZ	224	GLY	CA-C-N	10.33	130.26	120.03
2	CZ	224	GLY	C-N-CA	10.33	130.26	120.03
2	Cb	224	GLY	CA-C-N	10.33	130.26	120.03
2	Cb	224	GLY	C-N-CA	10.33	130.26	120.03
1	Ac	9	GLU	CA-C-N	10.32	132.74	119.84
1	Ac	9	GLU	C-N-CA	10.32	132.74	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ch	224	GLY	CA-C-N	10.32	130.25	120.03
2	Ch	224	GLY	C-N-CA	10.32	130.25	120.03
1	Ag	9	GLU	CA-C-N	10.32	132.74	119.84
1	Ag	9	GLU	C-N-CA	10.32	132.74	119.84
2	C3	224	GLY	CA-C-N	10.32	130.25	120.03
2	C3	224	GLY	C-N-CA	10.32	130.25	120.03
2	Cw	224	GLY	CA-C-N	10.32	130.25	120.03
2	Cw	224	GLY	C-N-CA	10.32	130.25	120.03
1	AI	9	GLU	CA-C-N	10.31	132.73	119.84
1	AI	9	GLU	C-N-CA	10.31	132.73	119.84
2	C1	224	GLY	CA-C-N	10.31	130.24	120.03
2	C1	224	GLY	C-N-CA	10.31	130.24	120.03
2	C2	224	GLY	CA-C-N	10.31	130.24	120.03
2	C2	224	GLY	C-N-CA	10.31	130.24	120.03
2	CH	224	GLY	CA-C-N	10.31	130.24	120.03
2	CH	224	GLY	C-N-CA	10.31	130.24	120.03
2	Cu	224	GLY	CA-C-N	10.31	130.24	120.03
2	Cu	224	GLY	C-N-CA	10.31	130.24	120.03
1	AT	9	GLU	CA-C-N	10.31	132.73	119.84
1	AT	9	GLU	C-N-CA	10.31	132.73	119.84
2	Cg	224	GLY	CA-C-N	10.31	130.24	120.03
2	Cg	224	GLY	C-N-CA	10.31	130.24	120.03
2	C6	224	GLY	CA-C-N	10.31	130.23	120.03
2	C6	224	GLY	C-N-CA	10.31	130.23	120.03
1	A6	9	GLU	CA-C-N	10.31	132.72	119.84
1	A6	9	GLU	C-N-CA	10.31	132.72	119.84
1	A3	9	GLU	CA-C-N	10.30	132.72	119.84
1	A3	9	GLU	C-N-CA	10.30	132.72	119.84
1	BD	9	GLU	CA-C-N	10.30	132.72	119.84
1	BD	9	GLU	C-N-CA	10.30	132.72	119.84
2	CA	224	GLY	CA-C-N	10.30	130.23	120.03
2	CA	224	GLY	C-N-CA	10.30	130.23	120.03
2	Cq	224	GLY	CA-C-N	10.30	130.23	120.03
2	Cq	224	GLY	C-N-CA	10.30	130.23	120.03
1	AE	9	GLU	CA-C-N	10.30	132.72	119.84
1	AE	9	GLU	C-N-CA	10.30	132.72	119.84
1	AN	9	GLU	CA-C-N	10.30	132.72	119.84
1	AN	9	GLU	C-N-CA	10.30	132.72	119.84
1	BC	9	GLU	CA-C-N	10.30	132.72	119.84
1	BC	9	GLU	C-N-CA	10.30	132.72	119.84
1	BB	9	GLU	CA-C-N	10.30	132.71	119.84
1	BB	9	GLU	C-N-CA	10.30	132.71	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BG	9	GLU	CA-C-N	10.30	132.71	119.84
1	BG	9	GLU	C-N-CA	10.30	132.71	119.84
2	CD	224	GLY	CA-C-N	10.30	130.23	120.03
2	CD	224	GLY	C-N-CA	10.30	130.23	120.03
2	CU	224	GLY	CA-C-N	10.30	130.22	120.03
2	CU	224	GLY	C-N-CA	10.30	130.22	120.03
1	A0	9	GLU	CA-C-N	10.29	132.71	119.84
1	A0	9	GLU	C-N-CA	10.29	132.71	119.84
1	AO	9	GLU	CA-C-N	10.29	132.71	119.84
1	AO	9	GLU	C-N-CA	10.29	132.71	119.84
1	Aa	9	GLU	CA-C-N	10.29	132.71	119.84
1	Aa	9	GLU	C-N-CA	10.29	132.71	119.84
1	Ab	9	GLU	CA-C-N	10.29	132.71	119.84
1	Ab	9	GLU	C-N-CA	10.29	132.71	119.84
1	Ae	9	GLU	CA-C-N	10.29	132.71	119.84
1	Ae	9	GLU	C-N-CA	10.29	132.71	119.84
1	BE	9	GLU	CA-C-N	10.29	132.71	119.84
1	BE	9	GLU	C-N-CA	10.29	132.71	119.84
1	AJ	9	GLU	CA-C-N	10.29	132.71	119.84
1	AJ	9	GLU	C-N-CA	10.29	132.71	119.84
2	Cj	224	GLY	CA-C-N	10.29	130.22	120.03
2	Cj	224	GLY	C-N-CA	10.29	130.22	120.03
1	A7	9	GLU	CA-C-N	10.29	132.70	119.84
1	A7	9	GLU	C-N-CA	10.29	132.70	119.84
1	AB	9	GLU	CA-C-N	10.29	132.70	119.84
1	AB	9	GLU	C-N-CA	10.29	132.70	119.84
1	AF	9	GLU	CA-C-N	10.29	132.70	119.84
1	AF	9	GLU	C-N-CA	10.29	132.70	119.84
1	AH	9	GLU	CA-C-N	10.29	132.70	119.84
1	AH	9	GLU	C-N-CA	10.29	132.70	119.84
1	AL	9	GLU	CA-C-N	10.29	132.70	119.84
1	AL	9	GLU	C-N-CA	10.29	132.70	119.84
1	AY	9	GLU	CA-C-N	10.29	132.70	119.84
1	AY	9	GLU	C-N-CA	10.29	132.70	119.84
1	Ak	9	GLU	CA-C-N	10.29	132.70	119.84
1	Ak	9	GLU	C-N-CA	10.29	132.70	119.84
1	AX	9	GLU	CA-C-N	10.29	132.70	119.84
1	AX	9	GLU	C-N-CA	10.29	132.70	119.84
1	Am	9	GLU	CA-C-N	10.29	132.70	119.84
1	Am	9	GLU	C-N-CA	10.29	132.70	119.84
2	Cf	224	GLY	CA-C-N	10.29	130.21	120.03
2	Cf	224	GLY	C-N-CA	10.29	130.21	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ai	9	GLU	CA-C-N	10.28	132.69	119.84
1	Ai	9	GLU	C-N-CA	10.28	132.69	119.84
1	A8	9	GLU	CA-C-N	10.28	132.69	119.84
1	A8	9	GLU	C-N-CA	10.28	132.69	119.84
1	AW	9	GLU	CA-C-N	10.28	132.69	119.84
1	AW	9	GLU	C-N-CA	10.28	132.69	119.84
1	BI	9	GLU	CA-C-N	10.28	132.69	119.84
1	BI	9	GLU	C-N-CA	10.28	132.69	119.84
2	CW	224	GLY	CA-C-N	10.28	130.21	120.03
2	CW	224	GLY	C-N-CA	10.28	130.21	120.03
1	BA	9	GLU	CA-C-N	10.27	132.68	119.84
1	BA	9	GLU	C-N-CA	10.27	132.68	119.84
1	AP	9	GLU	CA-C-N	10.27	132.68	119.84
1	AP	9	GLU	C-N-CA	10.27	132.68	119.84
1	Ao	9	GLU	CA-C-N	10.27	132.68	119.84
1	Ao	9	GLU	C-N-CA	10.27	132.68	119.84
1	AC	9	GLU	CA-C-N	10.27	132.68	119.84
1	AC	9	GLU	C-N-CA	10.27	132.68	119.84
1	AU	9	GLU	CA-C-N	10.27	132.68	119.84
1	AU	9	GLU	C-N-CA	10.27	132.68	119.84
1	Ad	9	GLU	CA-C-N	10.27	132.68	119.84
1	Ad	9	GLU	C-N-CA	10.27	132.68	119.84
1	Al	9	GLU	CA-C-N	10.27	132.68	119.84
1	Al	9	GLU	C-N-CA	10.27	132.68	119.84
1	A2	9	GLU	CA-C-N	10.26	132.67	119.84
1	A2	9	GLU	C-N-CA	10.26	132.67	119.84
1	AG	9	GLU	CA-C-N	10.26	132.67	119.84
1	AG	9	GLU	C-N-CA	10.26	132.67	119.84
1	BH	9	GLU	CA-C-N	10.26	132.67	119.84
1	BH	9	GLU	C-N-CA	10.26	132.67	119.84
1	A5	9	GLU	CA-C-N	10.26	132.67	119.84
1	A5	9	GLU	C-N-CA	10.26	132.67	119.84
1	AM	9	GLU	CA-C-N	10.26	132.67	119.84
1	AM	9	GLU	C-N-CA	10.26	132.67	119.84
1	Aj	9	GLU	CA-C-N	10.26	132.66	119.84
1	Aj	9	GLU	C-N-CA	10.26	132.66	119.84
1	An	9	GLU	CA-C-N	10.26	132.66	119.84
2	C0	224	GLY	CA-C-N	10.26	130.19	120.03
2	C0	224	GLY	C-N-CA	10.26	130.19	120.03
1	A4	9	GLU	CA-C-N	10.26	132.66	119.84
1	A4	9	GLU	C-N-CA	10.26	132.66	119.84
1	AA	9	GLU	CA-C-N	10.26	132.66	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	9	GLU	C-N-CA	10.26	132.66	119.84
1	An	9	GLU	C-N-CA	10.26	132.66	119.84
1	AD	9	GLU	CA-C-N	10.25	132.66	119.84
1	AD	9	GLU	C-N-CA	10.25	132.66	119.84
1	AQ	9	GLU	CA-C-N	10.25	132.66	119.84
1	AQ	9	GLU	C-N-CA	10.25	132.66	119.84
1	AS	9	GLU	CA-C-N	10.25	132.65	119.84
1	AS	9	GLU	C-N-CA	10.25	132.65	119.84
1	AZ	9	GLU	CA-C-N	10.25	132.65	119.84
1	AZ	9	GLU	C-N-CA	10.25	132.65	119.84
1	AV	9	GLU	CA-C-N	10.25	132.65	119.84
1	AV	9	GLU	C-N-CA	10.25	132.65	119.84
1	Ah	9	GLU	CA-C-N	10.25	132.65	119.84
1	Ah	9	GLU	C-N-CA	10.25	132.65	119.84
1	Af	9	GLU	CA-C-N	10.23	132.63	119.84
1	Af	9	GLU	C-N-CA	10.23	132.63	119.84
1	A9	9	GLU	CA-C-N	10.23	132.62	119.84
1	A9	9	GLU	C-N-CA	10.23	132.62	119.84
1	AR	9	GLU	CA-C-N	10.20	132.59	119.84
1	AR	9	GLU	C-N-CA	10.20	132.59	119.84
1	An	225	PRO	N-CA-C	10.17	123.10	110.70
1	AJ	225	PRO	N-CA-C	10.16	123.10	110.70
1	BH	225	PRO	N-CA-C	10.16	123.10	110.70
1	AR	225	PRO	N-CA-C	10.16	123.09	110.70
1	AO	225	PRO	N-CA-C	10.15	123.09	110.70
1	AU	225	PRO	N-CA-C	10.15	123.08	110.70
1	Af	225	PRO	N-CA-C	10.15	123.08	110.70
1	BA	225	PRO	N-CA-C	10.15	123.08	110.70
1	Aa	225	PRO	N-CA-C	10.15	123.08	110.70
1	A8	225	PRO	N-CA-C	10.14	123.07	110.70
1	AG	225	PRO	N-CA-C	10.14	123.07	110.70
1	BD	225	PRO	N-CA-C	10.14	123.07	110.70
1	A0	225	PRO	N-CA-C	10.14	123.07	110.70
1	AT	225	PRO	N-CA-C	10.13	123.06	110.70
1	BG	225	PRO	N-CA-C	10.13	123.06	110.70
1	Al	225	PRO	N-CA-C	10.13	123.06	110.70
1	BE	225	PRO	N-CA-C	10.13	123.06	110.70
1	AF	225	PRO	N-CA-C	10.13	123.06	110.70
1	BI	225	PRO	N-CA-C	10.13	123.06	110.70
1	AC	225	PRO	N-CA-C	10.12	123.05	110.70
1	AS	225	PRO	N-CA-C	10.12	123.05	110.70
1	AM	225	PRO	N-CA-C	10.12	123.05	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AQ	225	PRO	N-CA-C	10.12	123.05	110.70
1	Ag	225	PRO	N-CA-C	10.12	123.05	110.70
1	Ah	225	PRO	N-CA-C	10.12	123.05	110.70
1	AX	225	PRO	N-CA-C	10.12	123.05	110.70
1	AD	225	PRO	N-CA-C	10.12	123.05	110.70
1	AI	225	PRO	N-CA-C	10.12	123.05	110.70
1	Ai	225	PRO	N-CA-C	10.12	123.05	110.70
1	A9	225	PRO	N-CA-C	10.12	123.04	110.70
1	AA	225	PRO	N-CA-C	10.11	123.04	110.70
1	Ao	225	PRO	N-CA-C	10.11	123.04	110.70
1	BF	225	PRO	N-CA-C	10.11	123.04	110.70
1	AE	225	PRO	N-CA-C	10.11	123.04	110.70
1	A3	225	PRO	N-CA-C	10.11	123.03	110.70
1	A4	225	PRO	N-CA-C	10.11	123.03	110.70
1	AY	225	PRO	N-CA-C	10.11	123.03	110.70
1	AZ	225	PRO	N-CA-C	10.11	123.03	110.70
1	Ab	225	PRO	N-CA-C	10.11	123.03	110.70
1	AB	225	PRO	N-CA-C	10.11	123.03	110.70
1	Ak	225	PRO	N-CA-C	10.11	123.03	110.70
1	AW	225	PRO	N-CA-C	10.10	123.02	110.70
1	A5	225	PRO	N-CA-C	10.10	123.02	110.70
1	AH	225	PRO	N-CA-C	10.10	123.02	110.70
1	AV	225	PRO	N-CA-C	10.09	123.01	110.70
1	AL	225	PRO	N-CA-C	10.09	123.01	110.70
1	Ad	225	PRO	N-CA-C	10.09	123.01	110.70
1	AN	225	PRO	N-CA-C	10.09	123.00	110.70
1	Ae	225	PRO	N-CA-C	10.08	123.00	110.70
1	BB	225	PRO	N-CA-C	10.08	123.00	110.70
1	AP	225	PRO	N-CA-C	10.08	123.00	110.70
1	Am	225	PRO	N-CA-C	10.08	123.00	110.70
1	A1	225	PRO	N-CA-C	10.07	122.99	110.70
1	A7	225	PRO	N-CA-C	10.07	122.99	110.70
1	BC	225	PRO	N-CA-C	10.07	122.99	110.70
1	AK	225	PRO	N-CA-C	10.07	122.98	110.70
1	Ac	225	PRO	N-CA-C	10.07	122.98	110.70
1	A2	225	PRO	N-CA-C	10.06	122.97	110.70
1	Aj	225	PRO	N-CA-C	10.06	122.97	110.70
1	A6	225	PRO	N-CA-C	10.04	122.95	110.70
1	Ak	242	ASN	N-CA-C	-9.93	100.42	111.14
1	Ag	242	ASN	N-CA-C	-9.92	100.43	111.14
1	BF	242	ASN	N-CA-C	-9.91	100.43	111.14
1	A3	242	ASN	N-CA-C	-9.91	100.44	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AV	242	ASN	N-CA-C	-9.91	100.44	111.14
1	AG	242	ASN	N-CA-C	-9.91	100.44	111.14
1	AU	242	ASN	N-CA-C	-9.91	100.44	111.14
1	Af	242	ASN	N-CA-C	-9.90	100.44	111.14
1	Ah	242	ASN	N-CA-C	-9.90	100.44	111.14
1	AC	242	ASN	N-CA-C	-9.90	100.45	111.14
1	AI	242	ASN	N-CA-C	-9.90	100.45	111.14
1	AW	242	ASN	N-CA-C	-9.90	100.45	111.14
1	AX	242	ASN	N-CA-C	-9.90	100.45	111.14
1	AJ	242	ASN	N-CA-C	-9.89	100.45	111.14
1	An	242	ASN	N-CA-C	-9.89	100.45	111.14
1	BC	242	ASN	N-CA-C	-9.89	100.45	111.14
1	AB	242	ASN	N-CA-C	-9.89	100.46	111.14
1	AF	242	ASN	N-CA-C	-9.89	100.46	111.14
1	AY	242	ASN	N-CA-C	-9.89	100.46	111.14
1	A1	242	ASN	N-CA-C	-9.89	100.46	111.14
1	AT	242	ASN	N-CA-C	-9.89	100.46	111.14
1	Ai	242	ASN	N-CA-C	-9.89	100.46	111.14
1	A0	242	ASN	N-CA-C	-9.88	100.47	111.14
1	AD	242	ASN	N-CA-C	-9.88	100.46	111.14
1	Ae	242	ASN	N-CA-C	-9.89	100.46	111.14
1	Am	242	ASN	N-CA-C	-9.88	100.47	111.14
1	AP	242	ASN	N-CA-C	-9.88	100.47	111.14
1	AL	242	ASN	N-CA-C	-9.87	100.48	111.14
1	BE	242	ASN	N-CA-C	-9.88	100.47	111.14
1	AO	242	ASN	N-CA-C	-9.87	100.48	111.14
1	BI	242	ASN	N-CA-C	-9.87	100.48	111.14
1	AK	242	ASN	N-CA-C	-9.87	100.48	111.14
1	Aj	242	ASN	N-CA-C	-9.87	100.48	111.14
1	BD	242	ASN	N-CA-C	-9.87	100.48	111.14
1	A5	242	ASN	N-CA-C	-9.87	100.48	111.14
1	Aa	242	ASN	N-CA-C	-9.87	100.49	111.14
1	Al	242	ASN	N-CA-C	-9.86	100.49	111.14
1	Ao	242	ASN	N-CA-C	-9.87	100.49	111.14
1	AQ	242	ASN	N-CA-C	-9.86	100.49	111.14
1	BH	242	ASN	N-CA-C	-9.86	100.49	111.14
1	BB	242	ASN	N-CA-C	-9.86	100.50	111.14
1	A7	242	ASN	N-CA-C	-9.85	100.50	111.14
1	AA	242	ASN	N-CA-C	-9.85	100.50	111.14
1	BG	242	ASN	N-CA-C	-9.85	100.50	111.14
1	A4	242	ASN	N-CA-C	-9.85	100.50	111.14
1	A6	242	ASN	N-CA-C	-9.85	100.50	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AN	242	ASN	N-CA-C	-9.85	100.50	111.14
1	AE	242	ASN	N-CA-C	-9.85	100.50	111.14
1	AM	242	ASN	N-CA-C	-9.85	100.50	111.14
1	AS	242	ASN	N-CA-C	-9.85	100.50	111.14
1	Ab	242	ASN	N-CA-C	-9.85	100.50	111.14
1	A8	242	ASN	N-CA-C	-9.85	100.50	111.14
1	A2	242	ASN	N-CA-C	-9.85	100.51	111.14
1	AR	242	ASN	N-CA-C	-9.84	100.52	111.14
1	Ad	242	ASN	N-CA-C	-9.84	100.52	111.14
1	AH	242	ASN	N-CA-C	-9.83	100.52	111.14
1	A9	242	ASN	N-CA-C	-9.83	100.52	111.14
1	AZ	242	ASN	N-CA-C	-9.83	100.52	111.14
1	BA	242	ASN	N-CA-C	-9.82	100.53	111.14
1	Ac	242	ASN	N-CA-C	-9.79	100.56	111.14
3	Dc	96	PHE	N-CA-C	-9.61	101.55	113.28
3	DR	96	PHE	N-CA-C	-9.61	101.56	113.28
3	DG	96	PHE	N-CA-C	-9.61	101.56	113.28
3	DH	96	PHE	N-CA-C	-9.61	101.56	113.28
3	DY	96	PHE	N-CA-C	-9.61	101.56	113.28
3	D7	96	PHE	N-CA-C	-9.61	101.56	113.28
3	Dl	96	PHE	N-CA-C	-9.60	101.56	113.28
3	DU	96	PHE	N-CA-C	-9.60	101.57	113.28
3	Dm	96	PHE	N-CA-C	-9.60	101.57	113.28
3	D8	96	PHE	N-CA-C	-9.60	101.57	113.28
3	DJ	96	PHE	N-CA-C	-9.60	101.57	113.28
3	Dk	96	PHE	N-CA-C	-9.59	101.58	113.28
3	DQ	96	PHE	N-CA-C	-9.59	101.58	113.28
3	Dp	96	PHE	N-CA-C	-9.59	101.58	113.28
3	Dq	96	PHE	N-CA-C	-9.59	101.58	113.28
3	Db	96	PHE	N-CA-C	-9.59	101.58	113.28
3	EB	96	PHE	N-CA-C	-9.59	101.58	113.28
3	D5	96	PHE	N-CA-C	-9.58	101.59	113.28
3	DF	96	PHE	N-CA-C	-9.58	101.59	113.28
3	D2	96	PHE	N-CA-C	-9.58	101.59	113.28
3	DE	96	PHE	N-CA-C	-9.58	101.59	113.28
3	D4	96	PHE	N-CA-C	-9.58	101.60	113.28
3	D9	96	PHE	N-CA-C	-9.58	101.60	113.28
3	DL	96	PHE	N-CA-C	-9.58	101.60	113.28
3	Dg	96	PHE	N-CA-C	-9.58	101.60	113.28
3	DC	96	PHE	N-CA-C	-9.57	101.60	113.28
3	DK	96	PHE	N-CA-C	-9.57	101.60	113.28
3	DP	96	PHE	N-CA-C	-9.57	101.60	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	EC	96	PHE	N-CA-C	-9.57	101.61	113.28
3	D0	96	PHE	N-CA-C	-9.56	101.61	113.28
3	DZ	96	PHE	N-CA-C	-9.56	101.61	113.28
3	Dj	96	PHE	N-CA-C	-9.56	101.61	113.28
3	Dm	149	GLY	N-CA-C	-9.56	90.51	113.18
3	Dn	96	PHE	N-CA-C	-9.56	101.61	113.28
3	Do	96	PHE	N-CA-C	-9.56	101.61	113.28
3	EC	149	GLY	N-CA-C	-9.56	90.52	113.18
3	D1	96	PHE	N-CA-C	-9.56	101.62	113.28
3	D3	96	PHE	N-CA-C	-9.56	101.62	113.28
3	DH	149	GLY	N-CA-C	-9.56	90.53	113.18
3	DW	96	PHE	N-CA-C	-9.56	101.62	113.28
3	DK	149	GLY	N-CA-C	-9.55	90.54	113.18
3	DT	96	PHE	N-CA-C	-9.55	101.62	113.28
3	De	96	PHE	N-CA-C	-9.55	101.63	113.28
3	Dr	149	GLY	N-CA-C	-9.55	90.54	113.18
3	EE	149	GLY	N-CA-C	-9.55	90.53	113.18
3	EE	96	PHE	N-CA-C	-9.55	101.63	113.28
3	D6	96	PHE	N-CA-C	-9.55	101.63	113.28
3	De	149	GLY	N-CA-C	-9.55	90.54	113.18
3	DU	149	GLY	N-CA-C	-9.55	90.55	113.18
3	DB	96	PHE	N-CA-C	-9.55	101.63	113.28
3	Da	149	GLY	N-CA-C	-9.55	90.55	113.18
3	Dd	96	PHE	N-CA-C	-9.55	101.63	113.28
3	D6	149	GLY	N-CA-C	-9.54	90.56	113.18
3	DD	96	PHE	N-CA-C	-9.54	101.64	113.28
3	DI	96	PHE	N-CA-C	-9.54	101.64	113.28
3	DS	96	PHE	N-CA-C	-9.55	101.63	113.28
3	DO	96	PHE	N-CA-C	-9.54	101.64	113.28
3	DT	149	GLY	N-CA-C	-9.54	90.56	113.18
3	Dk	149	GLY	N-CA-C	-9.54	90.56	113.18
3	Dq	149	GLY	N-CA-C	-9.54	90.56	113.18
3	D8	149	GLY	N-CA-C	-9.54	90.56	113.18
3	DI	149	GLY	N-CA-C	-9.54	90.56	113.18
3	Db	149	GLY	N-CA-C	-9.54	90.57	113.18
3	Dh	96	PHE	N-CA-C	-9.54	101.64	113.28
3	Dh	149	GLY	N-CA-C	-9.54	90.57	113.18
3	DA	149	GLY	N-CA-C	-9.54	90.58	113.18
3	DM	96	PHE	N-CA-C	-9.54	101.64	113.28
3	DP	149	GLY	N-CA-C	-9.54	90.58	113.18
3	DZ	149	GLY	N-CA-C	-9.54	90.58	113.18
3	Di	149	GLY	N-CA-C	-9.54	90.58	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Ds	96	PHE	N-CA-C	-9.54	101.64	113.28
3	ED	149	GLY	N-CA-C	-9.54	90.58	113.18
3	D1	149	GLY	N-CA-C	-9.54	90.58	113.18
3	DS	149	GLY	N-CA-C	-9.54	90.58	113.18
3	Dn	149	GLY	N-CA-C	-9.54	90.58	113.18
3	Dr	96	PHE	N-CA-C	-9.54	101.65	113.28
3	D9	149	GLY	N-CA-C	-9.53	90.58	113.18
3	DV	96	PHE	N-CA-C	-9.53	101.65	113.28
3	DY	149	GLY	N-CA-C	-9.53	90.58	113.18
3	Dg	149	GLY	N-CA-C	-9.53	90.58	113.18
3	D3	149	GLY	N-CA-C	-9.53	90.59	113.18
3	DN	149	GLY	N-CA-C	-9.53	90.59	113.18
3	Dc	149	GLY	N-CA-C	-9.53	90.59	113.18
3	Dp	149	GLY	N-CA-C	-9.53	90.59	113.18
3	EA	149	GLY	N-CA-C	-9.53	90.59	113.18
3	ED	96	PHE	N-CA-C	-9.53	101.65	113.28
3	D0	149	GLY	N-CA-C	-9.53	90.60	113.18
3	DA	96	PHE	N-CA-C	-9.53	101.65	113.28
3	DR	149	GLY	N-CA-C	-9.53	90.59	113.18
3	D2	149	GLY	N-CA-C	-9.53	90.60	113.18
3	D4	149	GLY	N-CA-C	-9.53	90.60	113.18
3	DB	149	GLY	N-CA-C	-9.53	90.60	113.18
3	DJ	149	GLY	N-CA-C	-9.53	90.59	113.18
3	DQ	149	GLY	N-CA-C	-9.53	90.60	113.18
3	DV	149	GLY	N-CA-C	-9.53	90.60	113.18
3	DW	149	GLY	N-CA-C	-9.53	90.60	113.18
3	DX	149	GLY	N-CA-C	-9.53	90.60	113.18
3	Df	149	GLY	N-CA-C	-9.53	90.60	113.18
2	Co	216	ALA	CA-C-N	9.53	129.35	120.21
2	Co	216	ALA	C-N-CA	9.53	129.35	120.21
3	Da	96	PHE	N-CA-C	-9.53	101.66	113.28
3	EA	96	PHE	N-CA-C	-9.53	101.66	113.28
3	Dd	149	GLY	N-CA-C	-9.53	90.61	113.18
3	Dj	149	GLY	N-CA-C	-9.53	90.61	113.18
3	DI	149	GLY	N-CA-C	-9.53	90.61	113.18
3	Ds	149	GLY	N-CA-C	-9.53	90.60	113.18
3	EB	149	GLY	N-CA-C	-9.53	90.61	113.18
3	DD	149	GLY	N-CA-C	-9.52	90.61	113.18
3	Df	96	PHE	N-CA-C	-9.52	101.66	113.28
2	CD	216	ALA	CA-C-N	9.52	129.35	120.21
2	CD	216	ALA	C-N-CA	9.52	129.35	120.21
3	DE	149	GLY	N-CA-C	-9.52	90.61	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DF	149	GLY	N-CA-C	-9.52	90.61	113.18
3	DG	149	GLY	N-CA-C	-9.52	90.61	113.18
3	D7	149	GLY	N-CA-C	-9.52	90.62	113.18
3	DN	96	PHE	N-CA-C	-9.52	101.66	113.28
3	DO	149	GLY	N-CA-C	-9.52	90.61	113.18
3	Do	149	GLY	N-CA-C	-9.52	90.62	113.18
2	Cp	216	ALA	CA-C-N	9.52	129.35	120.21
2	Cp	216	ALA	C-N-CA	9.52	129.35	120.21
2	Cm	216	ALA	CA-C-N	9.52	129.35	120.21
2	Cm	216	ALA	C-N-CA	9.52	129.35	120.21
3	Di	96	PHE	N-CA-C	-9.52	101.67	113.28
2	Cf	216	ALA	CA-C-N	9.52	129.34	120.21
2	Cf	216	ALA	C-N-CA	9.52	129.34	120.21
3	DM	149	GLY	N-CA-C	-9.51	90.63	113.18
2	CY	216	ALA	CA-C-N	9.51	129.34	120.21
2	CY	216	ALA	C-N-CA	9.51	129.34	120.21
3	DC	149	GLY	N-CA-C	-9.51	90.64	113.18
3	DL	149	GLY	N-CA-C	-9.51	90.63	113.18
2	CT	216	ALA	CA-C-N	9.51	129.34	120.21
2	CT	216	ALA	C-N-CA	9.51	129.34	120.21
3	DX	96	PHE	N-CA-C	-9.51	101.68	113.28
2	C6	216	ALA	CA-C-N	9.50	129.33	120.21
2	C6	216	ALA	C-N-CA	9.50	129.33	120.21
2	Cj	216	ALA	CA-C-N	9.50	129.33	120.21
2	Cj	216	ALA	C-N-CA	9.50	129.33	120.21
3	D5	149	GLY	N-CA-C	-9.50	90.67	113.18
2	C4	216	ALA	CA-C-N	9.49	129.32	120.21
2	C4	216	ALA	C-N-CA	9.49	129.32	120.21
2	CU	216	ALA	CA-C-N	9.49	129.33	120.21
2	CU	216	ALA	C-N-CA	9.49	129.33	120.21
2	Ch	216	ALA	CA-C-N	9.49	129.32	120.21
2	Ch	216	ALA	C-N-CA	9.49	129.32	120.21
2	Ck	216	ALA	CA-C-N	9.49	129.32	120.21
2	Ck	216	ALA	C-N-CA	9.49	129.32	120.21
2	C8	216	ALA	CA-C-N	9.49	129.32	120.21
2	C8	216	ALA	C-N-CA	9.49	129.32	120.21
2	C7	216	ALA	CA-C-N	9.48	129.31	120.21
2	C7	216	ALA	C-N-CA	9.48	129.31	120.21
2	CV	216	ALA	CA-C-N	9.48	129.31	120.21
2	CV	216	ALA	C-N-CA	9.48	129.31	120.21
2	C9	216	ALA	CA-C-N	9.48	129.31	120.21
2	C9	216	ALA	C-N-CA	9.48	129.31	120.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cx	216	ALA	CA-C-N	9.48	129.31	120.21
2	Cx	216	ALA	C-N-CA	9.48	129.31	120.21
2	C5	216	ALA	CA-C-N	9.47	129.31	120.21
2	C5	216	ALA	C-N-CA	9.47	129.31	120.21
2	CR	216	ALA	CA-C-N	9.47	129.30	120.21
2	CR	216	ALA	C-N-CA	9.47	129.30	120.21
2	C3	216	ALA	CA-C-N	9.47	129.30	120.21
2	C3	216	ALA	C-N-CA	9.47	129.30	120.21
2	Cr	216	ALA	CA-C-N	9.47	129.30	120.21
2	Cr	216	ALA	C-N-CA	9.47	129.30	120.21
2	Cg	216	ALA	CA-C-N	9.47	129.30	120.21
2	Cg	216	ALA	C-N-CA	9.47	129.30	120.21
2	C1	216	ALA	CA-C-N	9.46	129.30	120.21
2	C1	216	ALA	C-N-CA	9.46	129.30	120.21
2	CG	216	ALA	CA-C-N	9.46	129.30	120.21
2	CG	216	ALA	C-N-CA	9.46	129.30	120.21
2	Cs	216	ALA	CA-C-N	9.46	129.29	120.21
2	Cs	216	ALA	C-N-CA	9.46	129.29	120.21
2	CX	216	ALA	CA-C-N	9.46	129.29	120.21
2	CX	216	ALA	C-N-CA	9.46	129.29	120.21
2	Ce	216	ALA	CA-C-N	9.46	129.29	120.21
2	Ce	216	ALA	C-N-CA	9.46	129.29	120.21
2	Ct	216	ALA	CA-C-N	9.46	129.29	120.21
2	Ct	216	ALA	C-N-CA	9.46	129.29	120.21
2	Cc	216	ALA	CA-C-N	9.46	129.29	120.21
2	Cc	216	ALA	C-N-CA	9.46	129.29	120.21
2	Cl	216	ALA	CA-C-N	9.45	129.28	120.21
2	Cl	216	ALA	C-N-CA	9.45	129.28	120.21
2	CH	216	ALA	CA-C-N	9.45	129.28	120.21
2	CH	216	ALA	C-N-CA	9.45	129.28	120.21
2	CB	216	ALA	CA-C-N	9.45	129.28	120.21
2	CB	216	ALA	C-N-CA	9.45	129.28	120.21
2	CQ	216	ALA	CA-C-N	9.45	129.28	120.21
2	CQ	216	ALA	C-N-CA	9.45	129.28	120.21
2	CK	216	ALA	CA-C-N	9.44	129.28	120.21
2	CK	216	ALA	C-N-CA	9.44	129.28	120.21
2	CL	216	ALA	CA-C-N	9.44	129.28	120.21
2	CL	216	ALA	C-N-CA	9.44	129.28	120.21
2	CW	216	ALA	CA-C-N	9.45	129.28	120.21
2	CW	216	ALA	C-N-CA	9.45	129.28	120.21
2	CO	216	ALA	CA-C-N	9.44	129.28	120.21
2	CO	216	ALA	C-N-CA	9.44	129.28	120.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ca	216	ALA	CA-C-N	9.44	129.28	120.21
2	Ca	216	ALA	C-N-CA	9.44	129.28	120.21
2	CJ	216	ALA	CA-C-N	9.44	129.27	120.21
2	CJ	216	ALA	C-N-CA	9.44	129.27	120.21
2	CA	216	ALA	CA-C-N	9.44	129.27	120.21
2	CA	216	ALA	C-N-CA	9.44	129.27	120.21
2	CI	216	ALA	CA-C-N	9.44	129.27	120.21
2	CI	216	ALA	C-N-CA	9.44	129.27	120.21
2	C0	216	ALA	CA-C-N	9.43	129.26	120.21
2	C0	216	ALA	C-N-CA	9.43	129.26	120.21
2	C2	216	ALA	CA-C-N	9.43	129.27	120.21
2	C2	216	ALA	C-N-CA	9.43	129.27	120.21
2	CM	216	ALA	CA-C-N	9.43	129.27	120.21
2	CM	216	ALA	C-N-CA	9.43	129.27	120.21
2	Cb	216	ALA	CA-C-N	9.43	129.26	120.21
2	Cb	216	ALA	C-N-CA	9.43	129.26	120.21
2	Cu	216	ALA	CA-C-N	9.43	129.26	120.21
2	Cu	216	ALA	C-N-CA	9.43	129.26	120.21
2	Ci	216	ALA	CA-C-N	9.43	129.26	120.21
2	Ci	216	ALA	C-N-CA	9.43	129.26	120.21
2	CS	216	ALA	CA-C-N	9.43	129.26	120.21
2	CS	216	ALA	C-N-CA	9.43	129.26	120.21
2	Cw	216	ALA	CA-C-N	9.43	129.26	120.21
2	Cw	216	ALA	C-N-CA	9.43	129.26	120.21
2	CZ	216	ALA	CA-C-N	9.42	129.26	120.21
2	CZ	216	ALA	C-N-CA	9.42	129.26	120.21
2	Cd	216	ALA	CA-C-N	9.42	129.25	120.21
2	Cd	216	ALA	C-N-CA	9.42	129.25	120.21
2	CN	216	ALA	CA-C-N	9.42	129.25	120.21
2	CN	216	ALA	C-N-CA	9.42	129.25	120.21
2	Cq	216	ALA	CA-C-N	9.41	129.25	120.21
2	Cq	216	ALA	C-N-CA	9.41	129.25	120.21
2	CP	216	ALA	CA-C-N	9.41	129.24	120.21
2	CP	216	ALA	C-N-CA	9.41	129.24	120.21
2	Cn	216	ALA	CA-C-N	9.40	129.24	120.21
2	Cn	216	ALA	C-N-CA	9.40	129.24	120.21
2	CE	216	ALA	CA-C-N	9.39	129.23	120.21
2	CE	216	ALA	C-N-CA	9.39	129.23	120.21
2	CF	216	ALA	CA-C-N	9.39	129.23	120.21
2	CF	216	ALA	C-N-CA	9.39	129.23	120.21
2	CC	216	ALA	CA-C-N	9.39	129.22	120.21
2	CC	216	ALA	C-N-CA	9.39	129.22	120.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CS	138	LYS	N-CA-C	-9.39	99.13	111.71
2	Cv	216	ALA	CA-C-N	9.38	129.22	120.21
2	Cv	216	ALA	C-N-CA	9.38	129.22	120.21
2	Cn	138	LYS	N-CA-C	-9.37	99.16	111.71
2	CZ	138	LYS	N-CA-C	-9.36	99.16	111.71
2	CO	138	LYS	N-CA-C	-9.36	99.17	111.71
2	CR	138	LYS	N-CA-C	-9.36	99.17	111.71
2	CP	138	LYS	N-CA-C	-9.36	99.17	111.71
2	CX	138	LYS	N-CA-C	-9.36	99.17	111.71
2	Cb	138	LYS	N-CA-C	-9.35	99.17	111.71
2	CL	138	LYS	N-CA-C	-9.35	99.18	111.71
2	C0	138	LYS	N-CA-C	-9.35	99.18	111.71
2	C7	138	LYS	N-CA-C	-9.35	99.18	111.71
2	Cg	138	LYS	N-CA-C	-9.34	99.20	111.71
2	CY	138	LYS	N-CA-C	-9.34	99.20	111.71
2	Cl	138	LYS	N-CA-C	-9.34	99.20	111.71
2	Cq	138	LYS	N-CA-C	-9.34	99.20	111.71
2	Cx	138	LYS	N-CA-C	-9.34	99.20	111.71
2	CV	138	LYS	N-CA-C	-9.33	99.21	111.71
2	Cs	138	LYS	N-CA-C	-9.33	99.21	111.71
2	CI	138	LYS	N-CA-C	-9.33	99.21	111.71
2	Ct	138	LYS	N-CA-C	-9.33	99.21	111.71
2	Cc	138	LYS	N-CA-C	-9.32	99.22	111.71
2	Cf	138	LYS	N-CA-C	-9.32	99.22	111.71
2	Cm	138	LYS	N-CA-C	-9.32	99.22	111.71
2	Co	138	LYS	N-CA-C	-9.32	99.22	111.71
2	CU	138	LYS	N-CA-C	-9.31	99.23	111.71
2	C3	138	LYS	N-CA-C	-9.31	99.23	111.71
2	Cd	138	LYS	N-CA-C	-9.31	99.23	111.71
2	Ck	138	LYS	N-CA-C	-9.31	99.23	111.71
2	Cp	138	LYS	N-CA-C	-9.31	99.23	111.71
2	CA	138	LYS	N-CA-C	-9.31	99.23	111.71
2	CB	138	LYS	N-CA-C	-9.31	99.23	111.71
2	Ce	138	LYS	N-CA-C	-9.31	99.23	111.71
2	CK	138	LYS	N-CA-C	-9.31	99.24	111.71
2	CM	138	LYS	N-CA-C	-9.31	99.24	111.71
2	C2	138	LYS	N-CA-C	-9.30	99.24	111.71
2	CC	138	LYS	N-CA-C	-9.30	99.24	111.71
2	CG	138	LYS	N-CA-C	-9.30	99.25	111.71
2	CN	138	LYS	N-CA-C	-9.30	99.24	111.71
2	Ca	138	LYS	N-CA-C	-9.30	99.24	111.71
2	CW	138	LYS	N-CA-C	-9.30	99.24	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cw	138	LYS	N-CA-C	-9.30	99.24	111.71
2	C8	138	LYS	N-CA-C	-9.30	99.25	111.71
2	CE	138	LYS	N-CA-C	-9.30	99.25	111.71
2	Ch	138	LYS	N-CA-C	-9.30	99.25	111.71
2	Cv	138	LYS	N-CA-C	-9.30	99.25	111.71
2	Ci	138	LYS	N-CA-C	-9.30	99.25	111.71
2	CF	138	LYS	N-CA-C	-9.30	99.25	111.71
2	CH	138	LYS	N-CA-C	-9.30	99.25	111.71
2	C4	138	LYS	N-CA-C	-9.29	99.25	111.71
2	Cr	138	LYS	N-CA-C	-9.29	99.25	111.71
2	Cu	138	LYS	N-CA-C	-9.29	99.25	111.71
2	C6	138	LYS	N-CA-C	-9.29	99.26	111.71
2	C9	138	LYS	N-CA-C	-9.28	99.27	111.71
2	CD	138	LYS	N-CA-C	-9.28	99.27	111.71
2	C1	138	LYS	N-CA-C	-9.28	99.28	111.71
2	C5	138	LYS	N-CA-C	-9.28	99.28	111.71
2	CJ	138	LYS	N-CA-C	-9.28	99.27	111.71
2	CT	138	LYS	N-CA-C	-9.28	99.28	111.71
2	Cj	138	LYS	N-CA-C	-9.28	99.28	111.71
2	CQ	138	LYS	N-CA-C	-9.24	99.32	111.71
1	BH	20	SER	CA-C-N	9.11	131.22	119.84
1	BH	20	SER	C-N-CA	9.11	131.22	119.84
1	AY	20	SER	CA-C-N	9.10	131.22	119.84
1	AY	20	SER	C-N-CA	9.10	131.22	119.84
1	AG	20	SER	CA-C-N	9.09	131.20	119.84
1	AG	20	SER	C-N-CA	9.09	131.20	119.84
1	A0	20	SER	CA-C-N	9.09	131.20	119.84
1	A0	20	SER	C-N-CA	9.09	131.20	119.84
1	A2	20	SER	CA-C-N	9.09	131.20	119.84
1	A2	20	SER	C-N-CA	9.09	131.20	119.84
1	A8	20	SER	CA-C-N	9.08	131.19	119.84
1	A8	20	SER	C-N-CA	9.08	131.19	119.84
1	AA	20	SER	CA-C-N	9.08	131.19	119.84
1	AA	20	SER	C-N-CA	9.08	131.19	119.84
1	AS	20	SER	CA-C-N	9.07	131.18	119.84
1	AS	20	SER	C-N-CA	9.07	131.18	119.84
1	Ag	20	SER	CA-C-N	9.07	131.18	119.84
1	Ag	20	SER	C-N-CA	9.07	131.18	119.84
1	AT	20	SER	CA-C-N	9.06	131.17	119.84
1	AT	20	SER	C-N-CA	9.06	131.17	119.84
1	Am	20	SER	CA-C-N	9.06	131.17	119.84
1	Am	20	SER	C-N-CA	9.06	131.17	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A3	20	SER	CA-C-N	9.06	131.16	119.84
1	A3	20	SER	C-N-CA	9.06	131.16	119.84
1	Al	20	SER	CA-C-N	9.06	131.16	119.84
1	Al	20	SER	C-N-CA	9.06	131.16	119.84
1	AL	20	SER	CA-C-N	9.05	131.15	119.84
1	AL	20	SER	C-N-CA	9.05	131.15	119.84
1	AP	20	SER	CA-C-N	9.05	131.15	119.84
1	AP	20	SER	C-N-CA	9.05	131.15	119.84
1	AQ	20	SER	CA-C-N	9.05	131.15	119.84
1	AQ	20	SER	C-N-CA	9.05	131.15	119.84
1	A5	20	SER	CA-C-N	9.05	131.15	119.84
1	A5	20	SER	C-N-CA	9.05	131.15	119.84
1	Ac	20	SER	CA-C-N	9.05	131.15	119.84
1	Ac	20	SER	C-N-CA	9.05	131.15	119.84
1	An	20	SER	CA-C-N	9.05	131.15	119.84
1	An	20	SER	C-N-CA	9.05	131.15	119.84
1	BF	20	SER	CA-C-N	9.05	131.15	119.84
1	BF	20	SER	C-N-CA	9.05	131.15	119.84
1	AO	20	SER	CA-C-N	9.04	131.15	119.84
1	AO	20	SER	C-N-CA	9.04	131.15	119.84
1	Ak	20	SER	CA-C-N	9.04	131.15	119.84
1	Ak	20	SER	C-N-CA	9.04	131.15	119.84
1	BC	20	SER	CA-C-N	9.04	131.15	119.84
1	BC	20	SER	C-N-CA	9.04	131.15	119.84
1	BD	20	SER	CA-C-N	9.04	131.15	119.84
1	BD	20	SER	C-N-CA	9.04	131.15	119.84
1	A4	20	SER	CA-C-N	9.04	131.14	119.84
1	A4	20	SER	C-N-CA	9.04	131.14	119.84
1	AB	20	SER	CA-C-N	9.04	131.14	119.84
1	AB	20	SER	C-N-CA	9.04	131.14	119.84
1	Ad	20	SER	CA-C-N	9.04	131.14	119.84
1	Ad	20	SER	C-N-CA	9.04	131.14	119.84
1	Ah	20	SER	CA-C-N	9.04	131.14	119.84
1	Ah	20	SER	C-N-CA	9.04	131.14	119.84
1	AV	20	SER	CA-C-N	9.04	131.14	119.84
1	AV	20	SER	C-N-CA	9.04	131.14	119.84
1	Ae	20	SER	CA-C-N	9.04	131.14	119.84
1	Ae	20	SER	C-N-CA	9.04	131.14	119.84
1	BE	20	SER	CA-C-N	9.04	131.14	119.84
1	BE	20	SER	C-N-CA	9.04	131.14	119.84
1	AF	20	SER	CA-C-N	9.04	131.14	119.84
1	AF	20	SER	C-N-CA	9.04	131.14	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AR	20	SER	CA-C-N	9.04	131.13	119.84
1	AC	20	SER	CA-C-N	9.03	131.13	119.84
1	AC	20	SER	C-N-CA	9.03	131.13	119.84
1	AH	20	SER	CA-C-N	9.04	131.13	119.84
1	AH	20	SER	C-N-CA	9.04	131.13	119.84
1	AR	20	SER	C-N-CA	9.04	131.13	119.84
1	Aa	20	SER	CA-C-N	9.03	131.13	119.84
1	Aa	20	SER	C-N-CA	9.03	131.13	119.84
1	Aj	20	SER	CA-C-N	9.03	131.12	119.84
1	Aj	20	SER	C-N-CA	9.03	131.12	119.84
1	AK	20	SER	CA-C-N	9.03	131.12	119.84
1	AK	20	SER	C-N-CA	9.03	131.12	119.84
1	AM	20	SER	CA-C-N	9.03	131.12	119.84
1	AM	20	SER	C-N-CA	9.03	131.12	119.84
1	AX	20	SER	CA-C-N	9.03	131.12	119.84
1	AX	20	SER	C-N-CA	9.03	131.12	119.84
1	Ab	20	SER	CA-C-N	9.03	131.12	119.84
1	Ab	20	SER	C-N-CA	9.03	131.12	119.84
1	AI	20	SER	CA-C-N	9.02	131.12	119.84
1	AI	20	SER	C-N-CA	9.02	131.12	119.84
1	AU	20	SER	CA-C-N	9.02	131.12	119.84
1	AU	20	SER	C-N-CA	9.02	131.12	119.84
1	Ai	20	SER	CA-C-N	9.02	131.12	119.84
1	Ai	20	SER	C-N-CA	9.02	131.12	119.84
1	AW	20	SER	CA-C-N	9.02	131.11	119.84
1	AW	20	SER	C-N-CA	9.02	131.11	119.84
1	BB	20	SER	CA-C-N	9.02	131.11	119.84
1	BB	20	SER	C-N-CA	9.02	131.11	119.84
1	BA	20	SER	CA-C-N	9.01	131.11	119.84
1	BA	20	SER	C-N-CA	9.01	131.11	119.84
1	BG	20	SER	CA-C-N	9.01	131.11	119.84
1	BG	20	SER	C-N-CA	9.01	131.11	119.84
1	A6	20	SER	CA-C-N	9.01	131.10	119.84
1	A6	20	SER	C-N-CA	9.01	131.10	119.84
1	AN	20	SER	CA-C-N	9.01	131.10	119.84
1	AN	20	SER	C-N-CA	9.01	131.10	119.84
1	AZ	20	SER	CA-C-N	9.01	131.10	119.84
1	AZ	20	SER	C-N-CA	9.01	131.10	119.84
1	Af	235	THR	N-CA-C	9.00	123.77	110.17
1	BI	20	SER	CA-C-N	9.00	131.09	119.84
1	BI	20	SER	C-N-CA	9.00	131.09	119.84
1	BI	235	THR	N-CA-C	9.00	123.76	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AD	20	SER	CA-C-N	9.00	131.09	119.84
1	AD	20	SER	C-N-CA	9.00	131.09	119.84
1	A2	235	THR	N-CA-C	9.00	123.75	110.17
1	AC	235	THR	N-CA-C	8.99	123.75	110.17
1	AE	20	SER	CA-C-N	8.99	131.08	119.84
1	AE	20	SER	C-N-CA	8.99	131.08	119.84
1	AJ	20	SER	CA-C-N	8.99	131.08	119.84
1	AJ	20	SER	C-N-CA	8.99	131.08	119.84
1	AM	235	THR	N-CA-C	8.99	123.75	110.17
1	Al	235	THR	N-CA-C	8.99	123.75	110.17
1	Ao	20	SER	CA-C-N	8.99	131.08	119.84
1	Ao	20	SER	C-N-CA	8.99	131.08	119.84
1	A1	20	SER	CA-C-N	8.99	131.07	119.84
1	A1	20	SER	C-N-CA	8.99	131.07	119.84
1	A7	20	SER	CA-C-N	8.99	131.07	119.84
1	A7	20	SER	C-N-CA	8.99	131.07	119.84
1	AK	235	THR	N-CA-C	8.99	123.74	110.17
1	AS	235	THR	N-CA-C	8.99	123.74	110.17
1	AF	235	THR	N-CA-C	8.98	123.74	110.17
1	AR	235	THR	N-CA-C	8.98	123.73	110.17
1	A8	235	THR	N-CA-C	8.98	123.72	110.17
1	Ae	235	THR	N-CA-C	8.98	123.73	110.17
1	A6	235	THR	N-CA-C	8.97	123.72	110.17
1	AT	235	THR	N-CA-C	8.97	123.72	110.17
1	Ac	235	THR	N-CA-C	8.97	123.72	110.17
1	A3	235	THR	N-CA-C	8.97	123.72	110.17
1	A9	20	SER	CA-C-N	8.97	131.06	119.84
1	A9	20	SER	C-N-CA	8.97	131.06	119.84
1	Ah	235	THR	N-CA-C	8.97	123.72	110.17
1	A5	235	THR	N-CA-C	8.97	123.71	110.17
1	AW	235	THR	N-CA-C	8.97	123.71	110.17
1	Aj	235	THR	N-CA-C	8.97	123.71	110.17
1	BD	235	THR	N-CA-C	8.97	123.71	110.17
1	BC	235	THR	N-CA-C	8.97	123.71	110.17
1	Ai	235	THR	N-CA-C	8.96	123.70	110.17
1	A0	235	THR	N-CA-C	8.96	123.70	110.17
1	BE	235	THR	N-CA-C	8.96	123.70	110.17
1	An	235	THR	N-CA-C	8.96	123.70	110.17
1	AB	235	THR	N-CA-C	8.96	123.69	110.17
1	AE	191	HIS	N-CA-C	8.96	120.07	108.34
1	AO	235	THR	N-CA-C	8.95	123.69	110.17
1	A9	235	THR	N-CA-C	8.95	123.69	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AH	235	THR	N-CA-C	8.95	123.69	110.17
1	AZ	235	THR	N-CA-C	8.95	123.69	110.17
1	AJ	235	THR	N-CA-C	8.95	123.69	110.17
1	AX	235	THR	N-CA-C	8.95	123.69	110.17
1	Ab	191	HIS	N-CA-C	8.95	120.07	108.34
1	BH	235	THR	N-CA-C	8.95	123.69	110.17
1	AQ	235	THR	N-CA-C	8.95	123.68	110.17
1	Af	191	HIS	N-CA-C	8.95	120.06	108.34
1	Af	20	SER	CA-C-N	8.95	131.02	119.84
1	Af	20	SER	C-N-CA	8.95	131.02	119.84
1	A7	191	HIS	N-CA-C	8.94	120.06	108.34
1	Ab	235	THR	N-CA-C	8.94	123.67	110.17
1	Ak	235	THR	N-CA-C	8.95	123.68	110.17
1	A6	191	HIS	N-CA-C	8.94	120.05	108.34
1	AP	191	HIS	N-CA-C	8.94	120.06	108.34
1	BA	235	THR	N-CA-C	8.94	123.67	110.17
1	AJ	191	HIS	N-CA-C	8.94	120.05	108.34
1	AU	235	THR	N-CA-C	8.94	123.67	110.17
1	Ad	235	THR	N-CA-C	8.94	123.67	110.17
1	BG	235	THR	N-CA-C	8.94	123.67	110.17
1	A3	191	HIS	N-CA-C	8.94	120.05	108.34
1	AI	235	THR	N-CA-C	8.94	123.66	110.17
1	AL	235	THR	N-CA-C	8.94	123.67	110.17
1	Ao	235	THR	N-CA-C	8.94	123.66	110.17
1	AA	191	HIS	N-CA-C	8.93	120.04	108.34
1	AD	235	THR	N-CA-C	8.93	123.66	110.17
1	AG	235	THR	N-CA-C	8.93	123.66	110.17
1	AU	191	HIS	N-CA-C	8.93	120.04	108.34
1	Aa	235	THR	N-CA-C	8.93	123.66	110.17
1	BB	235	THR	N-CA-C	8.93	123.66	110.17
1	AA	235	THR	N-CA-C	8.93	123.65	110.17
1	AP	235	THR	N-CA-C	8.93	123.65	110.17
1	AR	191	HIS	N-CA-C	8.93	120.04	108.34
1	Ae	191	HIS	N-CA-C	8.93	120.04	108.34
1	A4	235	THR	N-CA-C	8.93	123.65	110.17
1	AY	191	HIS	N-CA-C	8.93	120.03	108.34
1	AF	191	HIS	N-CA-C	8.93	120.03	108.34
1	AC	191	HIS	N-CA-C	8.92	120.03	108.34
1	AS	191	HIS	N-CA-C	8.92	120.03	108.34
1	AL	191	HIS	N-CA-C	8.92	120.03	108.34
1	Ag	235	THR	N-CA-C	8.92	123.64	110.17
1	Am	235	THR	N-CA-C	8.92	123.64	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A7	235	THR	N-CA-C	8.92	123.64	110.17
1	AI	191	HIS	N-CA-C	8.92	120.02	108.34
1	Ag	191	HIS	N-CA-C	8.92	120.02	108.34
1	AN	235	THR	N-CA-C	8.92	123.63	110.17
1	AZ	191	HIS	N-CA-C	8.92	120.02	108.34
1	AY	235	THR	N-CA-C	8.91	123.63	110.17
1	Ac	191	HIS	N-CA-C	8.91	120.02	108.34
1	Ao	191	HIS	N-CA-C	8.91	120.02	108.34
1	BF	235	THR	N-CA-C	8.91	123.63	110.17
1	An	191	HIS	N-CA-C	8.91	120.02	108.34
1	BF	191	HIS	N-CA-C	8.91	120.02	108.34
1	BD	191	HIS	N-CA-C	8.91	120.02	108.34
1	A4	191	HIS	N-CA-C	8.91	120.01	108.34
1	A9	191	HIS	N-CA-C	8.91	120.01	108.34
1	AE	235	THR	N-CA-C	8.91	123.62	110.17
1	AM	191	HIS	N-CA-C	8.91	120.01	108.34
1	AV	235	THR	N-CA-C	8.91	123.62	110.17
1	Aj	191	HIS	N-CA-C	8.91	120.01	108.34
1	BH	191	HIS	N-CA-C	8.91	120.01	108.34
1	AV	191	HIS	N-CA-C	8.91	120.01	108.34
1	AW	191	HIS	N-CA-C	8.91	120.01	108.34
1	AX	191	HIS	N-CA-C	8.91	120.01	108.34
1	BI	191	HIS	N-CA-C	8.91	120.01	108.34
1	A1	235	THR	N-CA-C	8.90	123.62	110.17
1	A8	191	HIS	N-CA-C	8.90	120.01	108.34
1	AK	191	HIS	N-CA-C	8.90	120.00	108.34
1	BB	191	HIS	N-CA-C	8.90	120.00	108.34
1	BE	191	HIS	N-CA-C	8.90	120.00	108.34
1	AN	191	HIS	N-CA-C	8.90	120.00	108.34
1	Ad	191	HIS	N-CA-C	8.90	120.00	108.34
1	AH	191	HIS	N-CA-C	8.90	120.00	108.34
1	BG	191	HIS	N-CA-C	8.90	120.00	108.34
1	AQ	191	HIS	N-CA-C	8.89	119.99	108.34
1	Al	191	HIS	N-CA-C	8.89	119.99	108.34
1	AG	191	HIS	N-CA-C	8.89	119.99	108.34
1	AT	191	HIS	N-CA-C	8.89	119.99	108.34
1	Am	191	HIS	N-CA-C	8.89	119.99	108.34
1	Ai	191	HIS	N-CA-C	8.89	119.98	108.34
1	BC	191	HIS	N-CA-C	8.89	119.98	108.34
1	Aa	191	HIS	N-CA-C	8.89	119.98	108.34
1	AB	191	HIS	N-CA-C	8.88	119.98	108.34
1	BA	191	HIS	N-CA-C	8.88	119.98	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A2	191	HIS	N-CA-C	8.88	119.97	108.34
1	A1	191	HIS	N-CA-C	8.87	119.96	108.34
1	A5	191	HIS	N-CA-C	8.87	119.96	108.34
1	AO	191	HIS	N-CA-C	8.87	119.96	108.34
1	AD	191	HIS	N-CA-C	8.87	119.96	108.34
1	A0	191	HIS	N-CA-C	8.87	119.95	108.34
1	AK	191	HIS	N-CA-C	8.86	119.95	108.34
2	CM	57	THR	N-CA-C	-8.85	98.14	110.35
2	C9	57	THR	N-CA-C	-8.84	98.15	110.35
1	Ah	191	HIS	N-CA-C	8.84	119.92	108.34
2	C5	57	THR	N-CA-C	-8.84	98.15	110.35
2	CT	57	THR	N-CA-C	-8.84	98.16	110.35
2	C4	57	THR	N-CA-C	-8.83	98.17	110.35
2	CN	57	THR	N-CA-C	-8.83	98.17	110.35
2	CQ	57	THR	N-CA-C	-8.83	98.17	110.35
2	Cg	57	THR	N-CA-C	-8.83	98.17	110.35
2	Cs	57	THR	N-CA-C	-8.83	98.17	110.35
2	Co	57	THR	N-CA-C	-8.82	98.18	110.35
2	Cb	57	THR	N-CA-C	-8.82	98.18	110.35
2	Cp	57	THR	N-CA-C	-8.82	98.18	110.35
2	CC	57	THR	N-CA-C	-8.82	98.18	110.35
2	Cl	57	THR	N-CA-C	-8.81	98.19	110.35
2	Cv	57	THR	N-CA-C	-8.81	98.19	110.35
2	Ch	57	THR	N-CA-C	-8.81	98.19	110.35
2	C3	57	THR	N-CA-C	-8.81	98.19	110.35
2	CA	57	THR	N-CA-C	-8.81	98.19	110.35
2	Ci	57	THR	N-CA-C	-8.81	98.19	110.35
2	Cn	57	THR	N-CA-C	-8.81	98.19	110.35
2	Cq	57	THR	N-CA-C	-8.81	98.19	110.35
2	CF	57	THR	N-CA-C	-8.81	98.19	110.35
2	Cr	57	THR	N-CA-C	-8.81	98.19	110.35
2	CR	57	THR	N-CA-C	-8.81	98.20	110.35
2	Ca	57	THR	N-CA-C	-8.81	98.20	110.35
2	CE	57	THR	N-CA-C	-8.80	98.20	110.35
2	CW	57	THR	N-CA-C	-8.80	98.20	110.35
2	Cw	57	THR	N-CA-C	-8.80	98.20	110.35
2	C6	57	THR	N-CA-C	-8.80	98.20	110.35
2	CY	57	THR	N-CA-C	-8.80	98.21	110.35
2	Cx	57	THR	N-CA-C	-8.80	98.20	110.35
2	CS	57	THR	N-CA-C	-8.80	98.21	110.35
2	CJ	57	THR	N-CA-C	-8.80	98.21	110.35
2	CZ	57	THR	N-CA-C	-8.80	98.21	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ck	57	THR	N-CA-C	-8.80	98.21	110.35
2	CL	57	THR	N-CA-C	-8.79	98.21	110.35
2	CP	57	THR	N-CA-C	-8.79	98.21	110.35
2	Cf	57	THR	N-CA-C	-8.79	98.21	110.35
2	Cj	57	THR	N-CA-C	-8.80	98.21	110.35
2	Ct	57	THR	N-CA-C	-8.79	98.21	110.35
2	C7	57	THR	N-CA-C	-8.79	98.22	110.35
2	CV	57	THR	N-CA-C	-8.79	98.22	110.35
2	CX	57	THR	N-CA-C	-8.79	98.22	110.35
2	C1	57	THR	N-CA-C	-8.79	98.22	110.35
2	CO	57	THR	N-CA-C	-8.78	98.23	110.35
2	CK	57	THR	N-CA-C	-8.78	98.23	110.35
2	CU	57	THR	N-CA-C	-8.78	98.23	110.35
2	Cm	57	THR	N-CA-C	-8.78	98.23	110.35
2	Cu	57	THR	N-CA-C	-8.78	98.24	110.35
2	CB	57	THR	N-CA-C	-8.78	98.24	110.35
2	Ce	57	THR	N-CA-C	-8.78	98.24	110.35
2	CG	57	THR	N-CA-C	-8.77	98.25	110.35
2	CH	57	THR	N-CA-C	-8.77	98.24	110.35
2	CD	57	THR	N-CA-C	-8.77	98.25	110.35
2	Cc	57	THR	N-CA-C	-8.77	98.25	110.35
2	C0	57	THR	N-CA-C	-8.76	98.26	110.35
2	C2	57	THR	N-CA-C	-8.76	98.26	110.35
2	Cd	57	THR	N-CA-C	-8.76	98.26	110.35
2	C8	57	THR	N-CA-C	-8.76	98.26	110.35
2	CI	57	THR	N-CA-C	-8.76	98.26	110.35
2	Cs	46	THR	CB-CA-C	-8.63	100.27	111.40
2	Ci	46	THR	CB-CA-C	-8.62	100.29	111.40
2	Cv	46	THR	CB-CA-C	-8.61	100.29	111.40
2	C0	46	THR	CB-CA-C	-8.60	100.30	111.40
2	CG	46	THR	CB-CA-C	-8.60	100.31	111.40
2	Cm	46	THR	CB-CA-C	-8.60	100.31	111.40
2	Ce	46	THR	CB-CA-C	-8.60	100.31	111.40
2	Cp	46	THR	CB-CA-C	-8.60	100.31	111.40
2	CU	46	THR	CB-CA-C	-8.59	100.32	111.40
2	Cx	46	THR	CB-CA-C	-8.59	100.31	111.40
2	CC	46	THR	CB-CA-C	-8.59	100.32	111.40
2	CM	46	THR	CB-CA-C	-8.59	100.32	111.40
2	CI	46	THR	CB-CA-C	-8.59	100.33	111.40
2	CQ	46	THR	CB-CA-C	-8.59	100.32	111.40
2	CZ	46	THR	CB-CA-C	-8.59	100.32	111.40
2	Cd	46	THR	CB-CA-C	-8.59	100.32	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ca	46	THR	CB-CA-C	-8.58	100.33	111.40
2	CB	46	THR	CB-CA-C	-8.58	100.33	111.40
2	Cq	46	THR	CB-CA-C	-8.58	100.33	111.40
2	CD	46	THR	CB-CA-C	-8.58	100.33	111.40
2	CJ	46	THR	CB-CA-C	-8.58	100.33	111.40
2	CX	46	THR	CB-CA-C	-8.57	100.34	111.40
2	CY	46	THR	CB-CA-C	-8.57	100.34	111.40
2	Ch	46	THR	CB-CA-C	-8.57	100.34	111.40
2	CV	46	THR	CB-CA-C	-8.57	100.34	111.40
2	C6	46	THR	CB-CA-C	-8.57	100.35	111.40
2	CA	46	THR	CB-CA-C	-8.57	100.35	111.40
2	CF	46	THR	CB-CA-C	-8.57	100.35	111.40
2	CH	46	THR	CB-CA-C	-8.57	100.35	111.40
2	Cu	46	THR	CB-CA-C	-8.57	100.35	111.40
2	C9	46	THR	CB-CA-C	-8.56	100.35	111.40
2	Cr	46	THR	CB-CA-C	-8.56	100.35	111.40
2	C8	46	THR	CB-CA-C	-8.56	100.35	111.40
2	CO	46	THR	CB-CA-C	-8.56	100.35	111.40
2	Cb	46	THR	CB-CA-C	-8.56	100.35	111.40
2	CE	46	THR	CB-CA-C	-8.56	100.36	111.40
2	Cf	46	THR	CB-CA-C	-8.56	100.36	111.40
2	CL	46	THR	CB-CA-C	-8.55	100.36	111.40
2	CP	46	THR	CB-CA-C	-8.55	100.37	111.40
2	Cn	46	THR	CB-CA-C	-8.55	100.36	111.40
2	Cl	46	THR	CB-CA-C	-8.55	100.37	111.40
2	CW	46	THR	CB-CA-C	-8.55	100.37	111.40
2	Ck	46	THR	CB-CA-C	-8.55	100.37	111.40
2	C3	46	THR	CB-CA-C	-8.55	100.37	111.40
2	CN	46	THR	CB-CA-C	-8.55	100.37	111.40
2	C2	46	THR	CB-CA-C	-8.55	100.38	111.40
2	CK	46	THR	CB-CA-C	-8.55	100.38	111.40
2	CS	46	THR	CB-CA-C	-8.54	100.38	111.40
2	Ct	46	THR	CB-CA-C	-8.55	100.38	111.40
2	C7	46	THR	CB-CA-C	-8.54	100.39	111.40
2	Cw	46	THR	CB-CA-C	-8.54	100.39	111.40
2	Cc	46	THR	CB-CA-C	-8.54	100.39	111.40
2	Co	46	THR	CB-CA-C	-8.53	100.39	111.40
2	C5	46	THR	CB-CA-C	-8.53	100.39	111.40
2	Cg	46	THR	CB-CA-C	-8.53	100.40	111.40
2	CR	46	THR	CB-CA-C	-8.52	100.41	111.40
2	Cj	46	THR	CB-CA-C	-8.52	100.41	111.40
2	C4	46	THR	CB-CA-C	-8.51	100.42	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CT	46	THR	CB-CA-C	-8.51	100.42	111.40
2	C1	46	THR	CB-CA-C	-8.51	100.42	111.40
2	CM	184	THR	N-CA-C	8.43	121.40	108.42
2	CD	184	THR	N-CA-C	8.42	121.39	108.42
2	CX	184	THR	N-CA-C	8.42	121.39	108.42
2	Cg	184	THR	N-CA-C	8.42	121.39	108.42
2	Ck	184	THR	N-CA-C	8.42	121.39	108.42
2	C8	184	THR	N-CA-C	8.42	121.38	108.42
2	CE	184	THR	N-CA-C	8.42	121.38	108.42
3	Dq	120	PHE	CB-CA-C	-8.42	93.67	110.42
2	CU	184	THR	N-CA-C	8.41	121.38	108.42
2	C0	184	THR	N-CA-C	8.41	121.37	108.42
2	Cb	184	THR	N-CA-C	8.41	121.38	108.42
2	Cf	184	THR	N-CA-C	8.41	121.38	108.42
2	CZ	184	THR	N-CA-C	8.41	121.37	108.42
2	CI	184	THR	N-CA-C	8.41	121.37	108.42
2	Ca	184	THR	N-CA-C	8.41	121.37	108.42
2	Cq	184	THR	N-CA-C	8.40	121.36	108.42
3	DT	120	PHE	CB-CA-C	-8.40	93.70	110.42
3	Ds	120	PHE	CB-CA-C	-8.40	93.70	110.42
3	EA	120	PHE	CB-CA-C	-8.40	93.70	110.42
2	C3	184	THR	N-CA-C	8.40	121.36	108.42
2	CK	184	THR	N-CA-C	8.40	121.36	108.42
2	Cd	184	THR	N-CA-C	8.40	121.36	108.42
3	DW	120	PHE	CB-CA-C	-8.40	93.70	110.42
2	CB	184	THR	N-CA-C	8.40	121.36	108.42
3	DI	120	PHE	CB-CA-C	-8.40	93.70	110.42
3	Dd	120	PHE	CB-CA-C	-8.40	93.70	110.42
3	Di	120	PHE	CB-CA-C	-8.40	93.70	110.42
3	ED	120	PHE	CB-CA-C	-8.40	93.70	110.42
2	Cc	184	THR	N-CA-C	8.40	121.35	108.42
2	C4	184	THR	N-CA-C	8.40	121.35	108.42
2	CY	184	THR	N-CA-C	8.40	121.35	108.42
2	Cu	184	THR	N-CA-C	8.40	121.35	108.42
3	Dn	120	PHE	CB-CA-C	-8.40	93.71	110.42
3	Dr	120	PHE	CB-CA-C	-8.40	93.71	110.42
2	Cl	184	THR	N-CA-C	8.40	121.35	108.42
3	Dc	120	PHE	CB-CA-C	-8.40	93.71	110.42
3	EC	120	PHE	CB-CA-C	-8.40	93.71	110.42
2	CR	184	THR	N-CA-C	8.39	121.35	108.42
2	Co	184	THR	N-CA-C	8.39	121.34	108.42
2	Cw	184	THR	N-CA-C	8.39	121.35	108.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CA	184	THR	N-CA-C	8.39	121.34	108.42
2	Cv	184	THR	N-CA-C	8.39	121.34	108.42
3	DE	120	PHE	CB-CA-C	-8.39	93.72	110.42
3	DK	120	PHE	CB-CA-C	-8.39	93.72	110.42
3	D5	120	PHE	CB-CA-C	-8.39	93.72	110.42
3	D7	120	PHE	CB-CA-C	-8.39	93.73	110.42
3	DO	120	PHE	CB-CA-C	-8.39	93.73	110.42
3	DD	120	PHE	CB-CA-C	-8.39	93.73	110.42
3	DR	120	PHE	CB-CA-C	-8.39	93.73	110.42
3	DS	120	PHE	CB-CA-C	-8.39	93.73	110.42
3	DU	120	PHE	CB-CA-C	-8.39	93.73	110.42
3	DY	120	PHE	CB-CA-C	-8.39	93.73	110.42
3	EB	120	PHE	CB-CA-C	-8.39	93.73	110.42
2	Cm	184	THR	N-CA-C	8.39	121.33	108.42
3	D8	120	PHE	CB-CA-C	-8.39	93.73	110.42
3	D9	120	PHE	CB-CA-C	-8.39	93.73	110.42
2	CN	184	THR	N-CA-C	8.38	121.33	108.42
2	CO	184	THR	N-CA-C	8.38	121.33	108.42
2	C7	184	THR	N-CA-C	8.38	121.33	108.42
2	CW	184	THR	N-CA-C	8.38	121.33	108.42
2	Cj	184	THR	N-CA-C	8.38	121.33	108.42
3	DQ	120	PHE	CB-CA-C	-8.38	93.74	110.42
2	Cs	184	THR	N-CA-C	8.38	121.33	108.42
3	DC	120	PHE	CB-CA-C	-8.38	93.74	110.42
3	DG	120	PHE	CB-CA-C	-8.38	93.74	110.42
2	CC	184	THR	N-CA-C	8.38	121.32	108.42
2	CS	184	THR	N-CA-C	8.38	121.32	108.42
3	DH	120	PHE	CB-CA-C	-8.38	93.75	110.42
3	Dg	120	PHE	CB-CA-C	-8.38	93.75	110.42
3	DI	120	PHE	CB-CA-C	-8.38	93.75	110.42
2	CP	184	THR	N-CA-C	8.38	121.32	108.42
2	CV	184	THR	N-CA-C	8.38	121.32	108.42
2	C6	184	THR	N-CA-C	8.38	121.32	108.42
3	DZ	120	PHE	CB-CA-C	-8.38	93.75	110.42
2	Ce	184	THR	N-CA-C	8.37	121.32	108.42
3	DF	120	PHE	CB-CA-C	-8.38	93.75	110.42
3	DJ	120	PHE	CB-CA-C	-8.38	93.75	110.42
3	DP	120	PHE	CB-CA-C	-8.38	93.75	110.42
3	De	120	PHE	CB-CA-C	-8.38	93.75	110.42
3	Dh	120	PHE	CB-CA-C	-8.37	93.75	110.42
3	EE	120	PHE	CB-CA-C	-8.38	93.75	110.42
2	CG	184	THR	N-CA-C	8.37	121.31	108.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cn	184	THR	N-CA-C	8.37	121.31	108.42
3	Da	120	PHE	CB-CA-C	-8.37	93.76	110.42
2	Cx	184	THR	N-CA-C	8.37	121.31	108.42
3	D1	120	PHE	CB-CA-C	-8.37	93.76	110.42
3	D3	120	PHE	CB-CA-C	-8.37	93.76	110.42
3	D6	120	PHE	CB-CA-C	-8.37	93.76	110.42
3	Dm	120	PHE	CB-CA-C	-8.37	93.76	110.42
2	C2	184	THR	N-CA-C	8.37	121.31	108.42
3	Dj	120	PHE	CB-CA-C	-8.37	93.76	110.42
3	Dk	120	PHE	CB-CA-C	-8.37	93.76	110.42
2	C9	184	THR	N-CA-C	8.37	121.31	108.42
2	CJ	184	THR	N-CA-C	8.37	121.31	108.42
2	Ct	184	THR	N-CA-C	8.37	121.31	108.42
3	DB	120	PHE	CB-CA-C	-8.37	93.77	110.42
3	DM	120	PHE	CB-CA-C	-8.37	93.77	110.42
3	DX	120	PHE	CB-CA-C	-8.37	93.77	110.42
2	CF	184	THR	N-CA-C	8.37	121.30	108.42
2	CH	184	THR	N-CA-C	8.37	121.30	108.42
2	CT	184	THR	N-CA-C	8.37	121.30	108.42
3	DA	120	PHE	CB-CA-C	-8.37	93.77	110.42
3	Do	120	PHE	CB-CA-C	-8.37	93.77	110.42
3	Dp	120	PHE	CB-CA-C	-8.36	93.78	110.42
2	Ch	184	THR	N-CA-C	8.36	121.30	108.42
3	D0	120	PHE	CB-CA-C	-8.36	93.78	110.42
3	DN	120	PHE	CB-CA-C	-8.36	93.78	110.42
2	CL	184	THR	N-CA-C	8.36	121.29	108.42
2	CQ	184	THR	N-CA-C	8.36	121.30	108.42
2	Ci	184	THR	N-CA-C	8.36	121.29	108.42
3	Db	120	PHE	CB-CA-C	-8.36	93.78	110.42
2	C5	184	THR	N-CA-C	8.36	121.29	108.42
3	Df	120	PHE	CB-CA-C	-8.36	93.79	110.42
2	C1	184	THR	N-CA-C	8.35	121.29	108.42
3	D2	120	PHE	CB-CA-C	-8.35	93.80	110.42
3	D4	120	PHE	CB-CA-C	-8.35	93.80	110.42
3	DV	120	PHE	CB-CA-C	-8.35	93.80	110.42
3	DL	120	PHE	CB-CA-C	-8.35	93.80	110.42
2	Cr	184	THR	N-CA-C	8.34	121.27	108.42
2	Cp	184	THR	N-CA-C	8.34	121.26	108.42
1	AP	225	PRO	CA-C-N	8.22	130.12	119.84
1	AP	225	PRO	C-N-CA	8.22	130.12	119.84
1	Ag	225	PRO	CA-C-N	8.22	130.12	119.84
1	Ag	225	PRO	C-N-CA	8.22	130.12	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AZ	225	PRO	CA-C-N	8.21	130.10	119.84
1	AZ	225	PRO	C-N-CA	8.21	130.10	119.84
1	A9	225	PRO	CA-C-N	8.20	130.09	119.84
1	A9	225	PRO	C-N-CA	8.20	130.09	119.84
1	BA	225	PRO	CA-C-N	8.19	130.08	119.84
1	BA	225	PRO	C-N-CA	8.19	130.08	119.84
1	BF	225	PRO	CA-C-N	8.19	130.08	119.84
1	BF	225	PRO	C-N-CA	8.19	130.08	119.84
1	AH	225	PRO	CA-C-N	8.19	130.08	119.84
1	AH	225	PRO	C-N-CA	8.19	130.08	119.84
1	BB	225	PRO	CA-C-N	8.19	130.08	119.84
1	BB	225	PRO	C-N-CA	8.19	130.08	119.84
1	Am	47	ASN	N-CA-C	-8.19	98.36	110.48
1	BF	47	ASN	N-CA-C	-8.19	98.37	110.48
1	AC	225	PRO	CA-C-N	8.18	130.07	119.84
1	AC	225	PRO	C-N-CA	8.18	130.07	119.84
1	BE	225	PRO	CA-C-N	8.18	130.07	119.84
1	BE	225	PRO	C-N-CA	8.18	130.07	119.84
1	AG	225	PRO	CA-C-N	8.18	130.07	119.84
1	AG	225	PRO	C-N-CA	8.18	130.07	119.84
1	AO	225	PRO	CA-C-N	8.18	130.07	119.84
1	AO	225	PRO	C-N-CA	8.18	130.07	119.84
1	AA	225	PRO	CA-C-N	8.18	130.06	119.84
1	AA	225	PRO	C-N-CA	8.18	130.06	119.84
1	AX	47	ASN	N-CA-C	-8.18	98.38	110.48
1	Aa	225	PRO	CA-C-N	8.18	130.06	119.84
1	Aa	225	PRO	C-N-CA	8.18	130.06	119.84
1	Af	225	PRO	CA-C-N	8.18	130.06	119.84
1	Af	225	PRO	C-N-CA	8.18	130.06	119.84
1	AQ	225	PRO	CA-C-N	8.18	130.06	119.84
1	AQ	225	PRO	C-N-CA	8.18	130.06	119.84
1	AT	225	PRO	CA-C-N	8.18	130.06	119.84
1	AT	225	PRO	C-N-CA	8.18	130.06	119.84
1	BH	225	PRO	CA-C-N	8.18	130.06	119.84
1	BH	225	PRO	C-N-CA	8.18	130.06	119.84
1	Ao	225	PRO	CA-C-N	8.17	130.06	119.84
1	Ao	225	PRO	C-N-CA	8.17	130.06	119.84
1	AU	225	PRO	CA-C-N	8.17	130.05	119.84
1	AU	225	PRO	C-N-CA	8.17	130.05	119.84
1	A4	225	PRO	CA-C-N	8.17	130.05	119.84
1	A4	225	PRO	C-N-CA	8.17	130.05	119.84
1	Ab	225	PRO	CA-C-N	8.17	130.05	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ab	225	PRO	C-N-CA	8.17	130.05	119.84
2	CZ	65	LYS	N-CA-C	-8.17	96.75	109.25
1	BG	225	PRO	CA-C-N	8.17	130.05	119.84
1	A2	225	PRO	CA-C-N	8.17	130.05	119.84
1	A2	225	PRO	C-N-CA	8.17	130.05	119.84
1	AB	47	ASN	N-CA-C	-8.17	98.39	110.48
1	BG	225	PRO	C-N-CA	8.17	130.05	119.84
1	AL	225	PRO	CA-C-N	8.17	130.05	119.84
1	AL	225	PRO	C-N-CA	8.17	130.05	119.84
1	Ab	47	ASN	N-CA-C	-8.17	98.39	110.48
1	BA	47	ASN	N-CA-C	-8.17	98.39	110.48
1	BC	47	ASN	N-CA-C	-8.17	98.39	110.48
1	BD	225	PRO	CA-C-N	8.17	130.05	119.84
1	BD	225	PRO	C-N-CA	8.17	130.05	119.84
1	BI	225	PRO	CA-C-N	8.17	130.05	119.84
1	BI	225	PRO	C-N-CA	8.17	130.05	119.84
1	A7	47	ASN	N-CA-C	-8.16	98.40	110.48
1	AD	225	PRO	CA-C-N	8.16	130.04	119.84
1	AD	225	PRO	C-N-CA	8.16	130.04	119.84
1	AK	225	PRO	CA-C-N	8.16	130.04	119.84
1	AK	225	PRO	C-N-CA	8.16	130.04	119.84
1	AR	47	ASN	N-CA-C	-8.16	98.40	110.48
1	Ai	47	ASN	N-CA-C	-8.16	98.40	110.48
1	BI	47	ASN	N-CA-C	-8.16	98.40	110.48
2	CC	65	LYS	N-CA-C	-8.16	96.76	109.25
2	CT	65	LYS	N-CA-C	-8.16	96.76	109.25
2	Cp	65	LYS	N-CA-C	-8.16	96.77	109.25
1	A0	225	PRO	CA-C-N	8.16	130.04	119.84
1	A0	225	PRO	C-N-CA	8.16	130.04	119.84
1	A3	225	PRO	CA-C-N	8.16	130.04	119.84
1	A3	225	PRO	C-N-CA	8.16	130.04	119.84
1	AE	47	ASN	N-CA-C	-8.16	98.41	110.48
1	AM	47	ASN	N-CA-C	-8.16	98.41	110.48
1	AV	47	ASN	N-CA-C	-8.16	98.41	110.48
1	AY	47	ASN	N-CA-C	-8.16	98.41	110.48
1	Aj	225	PRO	CA-C-N	8.16	130.04	119.84
1	Aj	225	PRO	C-N-CA	8.16	130.04	119.84
2	CA	65	LYS	N-CA-C	-8.16	96.77	109.25
1	A7	225	PRO	CA-C-N	8.15	130.03	119.84
1	A7	225	PRO	C-N-CA	8.15	130.03	119.84
1	AK	47	ASN	N-CA-C	-8.15	98.41	110.48
1	AN	225	PRO	CA-C-N	8.15	130.03	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AN	225	PRO	C-N-CA	8.15	130.03	119.84
1	AP	47	ASN	N-CA-C	-8.15	98.41	110.48
1	AX	225	PRO	CA-C-N	8.15	130.03	119.84
1	AX	225	PRO	C-N-CA	8.15	130.03	119.84
1	Ag	47	ASN	N-CA-C	-8.15	98.41	110.48
2	C7	65	LYS	N-CA-C	-8.15	96.77	109.25
2	CJ	65	LYS	N-CA-C	-8.15	96.77	109.25
2	CE	65	LYS	N-CA-C	-8.15	96.78	109.25
2	CS	65	LYS	N-CA-C	-8.15	96.78	109.25
2	C3	65	LYS	N-CA-C	-8.15	96.78	109.25
1	AF	225	PRO	CA-C-N	8.15	130.03	119.84
1	AF	225	PRO	C-N-CA	8.15	130.03	119.84
1	AU	47	ASN	N-CA-C	-8.15	98.42	110.48
1	Al	47	ASN	N-CA-C	-8.15	98.42	110.48
2	C2	65	LYS	N-CA-C	-8.15	96.78	109.25
2	Cf	65	LYS	N-CA-C	-8.15	96.78	109.25
1	Al	225	PRO	CA-C-N	8.15	130.03	119.84
1	Al	225	PRO	C-N-CA	8.15	130.03	119.84
2	CD	65	LYS	N-CA-C	-8.15	96.78	109.25
2	Cs	65	LYS	N-CA-C	-8.15	96.78	109.25
1	A1	225	PRO	CA-C-N	8.15	130.02	119.84
1	A1	225	PRO	C-N-CA	8.15	130.02	119.84
1	AG	47	ASN	N-CA-C	-8.15	98.42	110.48
1	AQ	47	ASN	N-CA-C	-8.15	98.42	110.48
1	Ak	225	PRO	CA-C-N	8.15	130.02	119.84
1	Ak	225	PRO	C-N-CA	8.15	130.02	119.84
1	BB	47	ASN	N-CA-C	-8.15	98.42	110.48
2	Ci	65	LYS	N-CA-C	-8.15	96.78	109.25
2	C9	65	LYS	N-CA-C	-8.15	96.79	109.25
2	CW	65	LYS	N-CA-C	-8.15	96.78	109.25
1	A5	225	PRO	CA-C-N	8.14	130.02	119.84
1	A5	225	PRO	C-N-CA	8.14	130.02	119.84
1	AV	225	PRO	CA-C-N	8.14	130.02	119.84
1	AV	225	PRO	C-N-CA	8.14	130.02	119.84
1	Ae	47	ASN	N-CA-C	-8.14	98.43	110.48
1	Aj	47	ASN	N-CA-C	-8.14	98.43	110.48
2	Ck	65	LYS	N-CA-C	-8.14	96.79	109.25
1	AD	47	ASN	N-CA-C	-8.14	98.43	110.48
1	AI	47	ASN	N-CA-C	-8.14	98.43	110.48
1	Ac	47	ASN	N-CA-C	-8.14	98.43	110.48
1	Ai	225	PRO	CA-C-N	8.14	130.02	119.84
1	Ai	225	PRO	C-N-CA	8.14	130.02	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	An	225	PRO	CA-C-N	8.14	130.02	119.84
1	An	225	PRO	C-N-CA	8.14	130.02	119.84
2	Cg	65	LYS	N-CA-C	-8.14	96.79	109.25
1	Ah	47	ASN	N-CA-C	-8.14	98.43	110.48
2	CG	65	LYS	N-CA-C	-8.14	96.80	109.25
2	CH	65	LYS	N-CA-C	-8.14	96.80	109.25
2	CO	65	LYS	N-CA-C	-8.14	96.80	109.25
2	Cv	65	LYS	N-CA-C	-8.14	96.79	109.25
1	AB	225	PRO	CA-C-N	8.14	130.01	119.84
1	AB	225	PRO	C-N-CA	8.14	130.01	119.84
1	AH	47	ASN	N-CA-C	-8.14	98.44	110.48
1	AO	47	ASN	N-CA-C	-8.14	98.44	110.48
1	Af	47	ASN	N-CA-C	-8.14	98.44	110.48
1	Ak	47	ASN	N-CA-C	-8.14	98.44	110.48
2	Co	65	LYS	N-CA-C	-8.14	96.80	109.25
2	Cx	65	LYS	N-CA-C	-8.14	96.80	109.25
1	AI	225	PRO	CA-C-N	8.14	130.01	119.84
1	AI	225	PRO	C-N-CA	8.14	130.01	119.84
1	AM	225	PRO	CA-C-N	8.14	130.01	119.84
1	AM	225	PRO	C-N-CA	8.14	130.01	119.84
1	A5	47	ASN	N-CA-C	-8.13	98.44	110.48
1	AJ	225	PRO	CA-C-N	8.13	130.01	119.84
1	AJ	225	PRO	C-N-CA	8.13	130.01	119.84
1	AT	47	ASN	N-CA-C	-8.13	98.44	110.48
1	AW	225	PRO	CA-C-N	8.13	130.01	119.84
1	AW	225	PRO	C-N-CA	8.13	130.01	119.84
2	C0	65	LYS	N-CA-C	-8.13	96.81	109.25
2	C5	65	LYS	N-CA-C	-8.13	96.80	109.25
2	CM	65	LYS	N-CA-C	-8.13	96.80	109.25
2	Ct	65	LYS	N-CA-C	-8.13	96.81	109.25
1	A8	47	ASN	N-CA-C	-8.13	98.44	110.48
1	AF	47	ASN	N-CA-C	-8.13	98.44	110.48
1	AS	47	ASN	N-CA-C	-8.13	98.44	110.48
2	CX	65	LYS	N-CA-C	-8.13	96.81	109.25
1	AN	47	ASN	N-CA-C	-8.13	98.45	110.48
1	Ao	47	ASN	N-CA-C	-8.13	98.45	110.48
1	BC	225	PRO	CA-C-N	8.13	130.00	119.84
1	BC	225	PRO	C-N-CA	8.13	130.00	119.84
1	BD	47	ASN	N-CA-C	-8.13	98.44	110.48
1	BG	47	ASN	N-CA-C	-8.13	98.45	110.48
2	CF	65	LYS	N-CA-C	-8.13	96.81	109.25
2	CI	65	LYS	N-CA-C	-8.13	96.81	109.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cb	65	LYS	N-CA-C	-8.13	96.81	109.25
1	A6	225	PRO	CA-C-N	8.13	130.00	119.84
1	A6	225	PRO	C-N-CA	8.13	130.00	119.84
1	A8	225	PRO	CA-C-N	8.13	130.00	119.84
1	A8	225	PRO	C-N-CA	8.13	130.00	119.84
1	Ac	225	PRO	CA-C-N	8.13	130.00	119.84
1	Ac	225	PRO	C-N-CA	8.13	130.00	119.84
2	C1	65	LYS	N-CA-C	-8.13	96.81	109.25
2	CU	65	LYS	N-CA-C	-8.13	96.81	109.25
1	AS	225	PRO	CA-C-N	8.13	130.00	119.84
1	AS	225	PRO	C-N-CA	8.13	130.00	119.84
1	Ae	225	PRO	CA-C-N	8.13	130.00	119.84
1	Ae	225	PRO	C-N-CA	8.13	130.00	119.84
2	C6	65	LYS	N-CA-C	-8.13	96.81	109.25
2	Cm	65	LYS	N-CA-C	-8.13	96.82	109.25
1	A6	47	ASN	N-CA-C	-8.13	98.45	110.48
1	A9	47	ASN	N-CA-C	-8.12	98.46	110.48
1	AC	47	ASN	N-CA-C	-8.12	98.45	110.48
2	CK	65	LYS	N-CA-C	-8.12	96.82	109.25
2	CR	65	LYS	N-CA-C	-8.12	96.82	109.25
2	Cc	65	LYS	N-CA-C	-8.12	96.82	109.25
2	Cw	65	LYS	N-CA-C	-8.12	96.82	109.25
1	Aa	47	ASN	N-CA-C	-8.12	98.46	110.48
1	An	47	ASN	N-CA-C	-8.12	98.46	110.48
1	AY	225	PRO	CA-C-N	8.12	129.99	119.84
1	AY	225	PRO	C-N-CA	8.12	129.99	119.84
1	Ah	225	PRO	CA-C-N	8.12	129.99	119.84
1	Ah	225	PRO	C-N-CA	8.12	129.99	119.84
2	C4	65	LYS	N-CA-C	-8.12	96.83	109.25
2	C8	65	LYS	N-CA-C	-8.12	96.83	109.25
2	CB	65	LYS	N-CA-C	-8.12	96.83	109.25
2	Cr	65	LYS	N-CA-C	-8.12	96.82	109.25
1	AL	47	ASN	N-CA-C	-8.12	98.47	110.48
1	AZ	47	ASN	N-CA-C	-8.12	98.47	110.48
1	Ad	47	ASN	N-CA-C	-8.12	98.47	110.48
1	BH	47	ASN	N-CA-C	-8.12	98.47	110.48
2	CL	65	LYS	N-CA-C	-8.12	96.83	109.25
2	CV	65	LYS	N-CA-C	-8.12	96.83	109.25
2	Cd	65	LYS	N-CA-C	-8.12	96.83	109.25
1	A4	47	ASN	N-CA-C	-8.12	98.47	110.48
1	AR	225	PRO	CA-C-N	8.12	129.98	119.84
1	AR	225	PRO	C-N-CA	8.12	129.98	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cl	65	LYS	N-CA-C	-8.12	96.83	109.25
2	CQ	65	LYS	N-CA-C	-8.11	96.83	109.25
2	Cq	65	LYS	N-CA-C	-8.11	96.84	109.25
2	Cj	65	LYS	N-CA-C	-8.11	96.84	109.25
1	A0	47	ASN	N-CA-C	-8.11	98.48	110.48
1	AA	47	ASN	N-CA-C	-8.11	98.48	110.48
2	CP	65	LYS	N-CA-C	-8.11	96.84	109.25
1	A2	47	ASN	N-CA-C	-8.11	98.48	110.48
2	CN	65	LYS	N-CA-C	-8.11	96.84	109.25
2	Cu	65	LYS	N-CA-C	-8.11	96.84	109.25
1	A1	47	ASN	N-CA-C	-8.11	98.48	110.48
1	AE	225	PRO	CA-C-N	8.11	129.97	119.84
1	AE	225	PRO	C-N-CA	8.11	129.97	119.84
2	Ch	65	LYS	N-CA-C	-8.11	96.85	109.25
1	BE	47	ASN	N-CA-C	-8.10	98.49	110.48
2	Ce	65	LYS	N-CA-C	-8.10	96.85	109.25
2	Cn	65	LYS	N-CA-C	-8.10	96.85	109.25
1	AJ	47	ASN	N-CA-C	-8.10	98.49	110.48
1	Ad	225	PRO	CA-C-N	8.10	129.97	119.84
1	Ad	225	PRO	C-N-CA	8.10	129.97	119.84
1	A3	47	ASN	N-CA-C	-8.10	98.49	110.48
1	Am	225	PRO	CA-C-N	8.10	129.97	119.84
1	Am	225	PRO	C-N-CA	8.10	129.97	119.84
2	CY	65	LYS	N-CA-C	-8.10	96.86	109.25
2	Ca	65	LYS	N-CA-C	-8.10	96.86	109.25
1	AW	47	ASN	N-CA-C	-8.09	98.51	110.48
2	Cv	99	LYS	N-CA-C	-8.06	102.09	111.03
2	CL	99	LYS	N-CA-C	-8.03	102.12	111.03
2	CS	99	LYS	N-CA-C	-8.02	102.13	111.03
2	Ch	99	LYS	N-CA-C	-8.02	102.13	111.03
2	Cr	99	LYS	N-CA-C	-8.02	102.13	111.03
2	Cd	99	LYS	N-CA-C	-8.01	102.14	111.03
2	Cg	99	LYS	N-CA-C	-8.01	102.14	111.03
2	Cb	99	LYS	N-CA-C	-8.01	102.14	111.03
1	AN	74	THR	N-CA-C	-8.01	102.78	114.39
1	AX	74	THR	N-CA-C	-8.01	102.78	114.39
2	C6	99	LYS	N-CA-C	-8.00	102.15	111.03
2	C9	99	LYS	N-CA-C	-8.00	102.15	111.03
2	CF	99	LYS	N-CA-C	-7.99	102.16	111.03
1	AU	74	THR	N-CA-C	-7.99	102.80	114.39
2	CB	99	LYS	N-CA-C	-7.99	102.16	111.03
2	Cj	99	LYS	N-CA-C	-7.99	102.16	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C0	99	LYS	N-CA-C	-7.99	102.16	111.03
2	CU	99	LYS	N-CA-C	-7.99	102.16	111.03
4	FJ	25	PHE	N-CA-C	-7.99	102.57	111.28
4	F1	25	PHE	N-CA-C	-7.99	102.57	111.28
4	FL	25	PHE	N-CA-C	-7.99	102.57	111.28
1	AV	74	THR	N-CA-C	-7.99	102.81	114.39
2	CH	99	LYS	N-CA-C	-7.99	102.17	111.03
2	CO	99	LYS	N-CA-C	-7.99	102.17	111.03
2	CZ	99	LYS	N-CA-C	-7.99	102.17	111.03
2	Co	99	LYS	N-CA-C	-7.99	102.17	111.03
1	Ad	74	THR	N-CA-C	-7.98	102.81	114.39
1	Af	74	THR	N-CA-C	-7.98	102.81	114.39
2	Cc	99	LYS	N-CA-C	-7.98	102.17	111.03
2	Cm	99	LYS	N-CA-C	-7.98	102.17	111.03
1	Ac	74	THR	N-CA-C	-7.98	102.82	114.39
2	Ce	99	LYS	N-CA-C	-7.98	102.17	111.03
1	AD	74	THR	N-CA-C	-7.98	102.82	114.39
2	CI	99	LYS	N-CA-C	-7.98	102.18	111.03
4	F4	25	PHE	N-CA-C	-7.98	102.59	111.28
1	A2	74	THR	N-CA-C	-7.97	102.83	114.39
1	Ak	74	THR	N-CA-C	-7.97	102.83	114.39
1	Am	74	THR	N-CA-C	-7.97	102.83	114.39
2	Cp	99	LYS	N-CA-C	-7.97	102.18	111.03
4	FH	25	PHE	N-CA-C	-7.97	102.59	111.28
1	A4	74	THR	N-CA-C	-7.97	102.83	114.39
1	Ah	74	THR	N-CA-C	-7.97	102.83	114.39
2	C8	99	LYS	N-CA-C	-7.97	102.18	111.03
2	CX	99	LYS	N-CA-C	-7.97	102.18	111.03
2	Cl	99	LYS	N-CA-C	-7.97	102.18	111.03
1	AL	74	THR	N-CA-C	-7.97	102.83	114.39
2	CD	99	LYS	N-CA-C	-7.97	102.19	111.03
4	Fw	25	PHE	N-CA-C	-7.97	102.59	111.28
2	Cu	99	LYS	N-CA-C	-7.97	102.19	111.03
1	AF	74	THR	N-CA-C	-7.97	102.84	114.39
1	AO	74	THR	N-CA-C	-7.97	102.84	114.39
1	BA	74	THR	N-CA-C	-7.97	102.84	114.39
2	C4	99	LYS	N-CA-C	-7.97	102.19	111.03
4	FF	25	PHE	N-CA-C	-7.97	102.60	111.28
1	An	74	THR	N-CA-C	-7.96	102.84	114.39
2	CE	99	LYS	N-CA-C	-7.96	102.19	111.03
2	Ca	99	LYS	N-CA-C	-7.96	102.19	111.03
1	A9	74	THR	N-CA-C	-7.96	102.84	114.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ag	74	THR	N-CA-C	-7.96	102.84	114.39
2	CT	99	LYS	N-CA-C	-7.96	102.19	111.03
4	FP	25	PHE	N-CA-C	-7.96	102.60	111.28
1	BB	74	THR	N-CA-C	-7.96	102.84	114.39
2	CR	99	LYS	N-CA-C	-7.96	102.19	111.03
2	CK	99	LYS	N-CA-C	-7.96	102.19	111.03
2	Cs	99	LYS	N-CA-C	-7.96	102.19	111.03
1	A1	74	THR	N-CA-C	-7.96	102.85	114.39
2	CJ	99	LYS	N-CA-C	-7.96	102.20	111.03
2	CW	99	LYS	N-CA-C	-7.96	102.20	111.03
1	A3	74	THR	N-CA-C	-7.96	102.85	114.39
1	AB	74	THR	N-CA-C	-7.96	102.85	114.39
2	C2	99	LYS	N-CA-C	-7.96	102.20	111.03
2	C3	99	LYS	N-CA-C	-7.96	102.20	111.03
4	FE	25	PHE	N-CA-C	-7.96	102.61	111.28
1	AP	74	THR	N-CA-C	-7.96	102.86	114.39
1	AK	74	THR	N-CA-C	-7.95	102.86	114.39
1	BI	74	THR	N-CA-C	-7.95	102.86	114.39
2	C7	99	LYS	N-CA-C	-7.95	102.20	111.03
2	CN	99	LYS	N-CA-C	-7.95	102.20	111.03
2	CY	99	LYS	N-CA-C	-7.95	102.20	111.03
2	Cf	99	LYS	N-CA-C	-7.95	102.20	111.03
4	F8	25	PHE	N-CA-C	-7.95	102.61	111.28
1	Ae	74	THR	N-CA-C	-7.95	102.86	114.39
2	CP	99	LYS	N-CA-C	-7.95	102.20	111.03
1	A8	74	THR	N-CA-C	-7.95	102.86	114.39
1	AE	74	THR	N-CA-C	-7.95	102.86	114.39
1	AI	74	THR	N-CA-C	-7.95	102.86	114.39
1	Ao	74	THR	N-CA-C	-7.95	102.86	114.39
1	BE	74	THR	N-CA-C	-7.95	102.86	114.39
2	Cx	99	LYS	N-CA-C	-7.95	102.20	111.03
4	Fa	25	PHE	N-CA-C	-7.95	102.61	111.28
1	AA	74	THR	N-CA-C	-7.95	102.86	114.39
1	AT	74	THR	N-CA-C	-7.95	102.86	114.39
1	A0	74	THR	N-CA-C	-7.95	102.87	114.39
4	Fp	25	PHE	N-CA-C	-7.95	102.62	111.28
1	BC	74	THR	N-CA-C	-7.94	102.87	114.39
1	AS	74	THR	N-CA-C	-7.94	102.87	114.39
2	CA	99	LYS	N-CA-C	-7.94	102.21	111.03
2	Ci	99	LYS	N-CA-C	-7.94	102.21	111.03
2	Cn	99	LYS	N-CA-C	-7.94	102.21	111.03
1	A5	74	THR	N-CA-C	-7.94	102.88	114.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AH	74	THR	N-CA-C	-7.94	102.88	114.39
1	Ab	74	THR	N-CA-C	-7.94	102.88	114.39
2	Cw	99	LYS	N-CA-C	-7.94	102.22	111.03
4	Fr	25	PHE	N-CA-C	-7.94	102.63	111.28
1	AW	74	THR	N-CA-C	-7.94	102.88	114.39
1	BD	74	THR	N-CA-C	-7.94	102.88	114.39
2	C5	99	LYS	N-CA-C	-7.94	102.22	111.03
4	FZ	25	PHE	N-CA-C	-7.94	102.63	111.28
2	CV	99	LYS	N-CA-C	-7.94	102.22	111.03
1	AG	74	THR	N-CA-C	-7.94	102.88	114.39
1	AJ	74	THR	N-CA-C	-7.94	102.88	114.39
1	AM	74	THR	N-CA-C	-7.93	102.89	114.39
2	CG	99	LYS	N-CA-C	-7.93	102.22	111.03
2	CM	99	LYS	N-CA-C	-7.93	102.22	111.03
2	CQ	99	LYS	N-CA-C	-7.93	102.22	111.03
2	Ct	99	LYS	N-CA-C	-7.93	102.22	111.03
1	BF	74	THR	N-CA-C	-7.93	102.89	114.39
1	AQ	74	THR	N-CA-C	-7.93	102.89	114.39
1	Al	74	THR	N-CA-C	-7.93	102.89	114.39
4	FC	25	PHE	N-CA-C	-7.93	102.64	111.28
4	Fb	25	PHE	N-CA-C	-7.93	102.64	111.28
1	A6	74	THR	N-CA-C	-7.93	102.89	114.39
1	A7	74	THR	N-CA-C	-7.93	102.89	114.39
1	AZ	74	THR	N-CA-C	-7.93	102.89	114.39
4	FV	25	PHE	N-CA-C	-7.93	102.64	111.28
4	F1	25	PHE	N-CA-C	-7.93	102.64	111.28
4	F2	25	PHE	N-CA-C	-7.93	102.64	111.28
4	FD	25	PHE	N-CA-C	-7.93	102.64	111.28
1	Ai	74	THR	N-CA-C	-7.93	102.90	114.39
1	Aj	74	THR	N-CA-C	-7.93	102.90	114.39
1	AC	74	THR	N-CA-C	-7.92	102.90	114.39
4	F3	25	PHE	N-CA-C	-7.92	102.64	111.28
4	Ff	25	PHE	N-CA-C	-7.92	102.64	111.28
4	Fq	25	PHE	N-CA-C	-7.92	102.64	111.28
4	Fs	25	PHE	N-CA-C	-7.92	102.65	111.28
4	FB	25	PHE	N-CA-C	-7.92	102.65	111.28
1	BG	74	THR	N-CA-C	-7.92	102.91	114.39
4	FN	25	PHE	N-CA-C	-7.92	102.65	111.28
4	FR	25	PHE	N-CA-C	-7.92	102.65	111.28
2	Cq	99	LYS	N-CA-C	-7.92	102.24	111.03
4	Fd	25	PHE	N-CA-C	-7.92	102.65	111.28
4	Fi	25	PHE	N-CA-C	-7.92	102.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CC	99	LYS	N-CA-C	-7.92	102.24	111.03
4	FI	25	PHE	N-CA-C	-7.92	102.65	111.28
1	BH	74	THR	N-CA-C	-7.91	102.92	114.39
2	Ck	99	LYS	N-CA-C	-7.91	102.25	111.03
4	Fx	25	PHE	N-CA-C	-7.91	102.66	111.28
4	Fu	25	PHE	N-CA-C	-7.91	102.66	111.28
2	C1	99	LYS	N-CA-C	-7.91	102.25	111.03
4	FS	25	PHE	N-CA-C	-7.91	102.66	111.28
4	Fe	25	PHE	N-CA-C	-7.91	102.66	111.28
1	AR	74	THR	N-CA-C	-7.91	102.92	114.39
4	FX	25	PHE	N-CA-C	-7.91	102.66	111.28
4	Ft	25	PHE	N-CA-C	-7.91	102.66	111.28
4	FK	25	PHE	N-CA-C	-7.91	102.66	111.28
1	AY	74	THR	N-CA-C	-7.91	102.93	114.39
4	F9	25	PHE	N-CA-C	-7.91	102.66	111.28
4	Fn	25	PHE	N-CA-C	-7.91	102.66	111.28
4	Fv	25	PHE	N-CA-C	-7.91	102.66	111.28
4	Fh	25	PHE	N-CA-C	-7.90	102.67	111.28
1	Aa	74	THR	N-CA-C	-7.90	102.93	114.39
4	FA	25	PHE	N-CA-C	-7.90	102.67	111.28
4	FM	25	PHE	N-CA-C	-7.90	102.67	111.28
4	Fg	25	PHE	N-CA-C	-7.90	102.67	111.28
4	Fo	25	PHE	N-CA-C	-7.90	102.67	111.28
2	CC	65	LYS	CA-C-N	7.90	130.57	120.70
2	CC	65	LYS	C-N-CA	7.90	130.57	120.70
2	Cg	65	LYS	CA-C-N	7.90	130.57	120.70
2	Cg	65	LYS	C-N-CA	7.90	130.57	120.70
2	CI	65	LYS	CA-C-N	7.89	130.57	120.70
2	CI	65	LYS	C-N-CA	7.89	130.57	120.70
2	CS	65	LYS	CA-C-N	7.89	130.57	120.70
2	CS	65	LYS	C-N-CA	7.89	130.57	120.70
2	CZ	65	LYS	CA-C-N	7.89	130.57	120.70
2	CZ	65	LYS	C-N-CA	7.89	130.57	120.70
4	FO	25	PHE	N-CA-C	-7.89	102.68	111.28
4	FT	25	PHE	N-CA-C	-7.89	102.68	111.28
4	FU	25	PHE	N-CA-C	-7.89	102.68	111.28
4	FW	25	PHE	N-CA-C	-7.89	102.68	111.28
4	Fj	25	PHE	N-CA-C	-7.89	102.68	111.28
2	Cp	48	SER	N-CA-C	-7.89	98.47	110.70
2	Ct	48	SER	N-CA-C	-7.89	98.47	110.70
4	F5	25	PHE	N-CA-C	-7.89	102.68	111.28
4	F7	25	PHE	N-CA-C	-7.89	102.68	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	FG	25	PHE	N-CA-C	-7.89	102.68	111.28
4	Fk	25	PHE	N-CA-C	-7.89	102.68	111.28
4	F0	25	PHE	N-CA-C	-7.88	102.69	111.28
4	F6	25	PHE	N-CA-C	-7.88	102.69	111.28
4	FY	25	PHE	N-CA-C	-7.88	102.69	111.28
2	Cm	48	SER	N-CA-C	-7.88	98.49	110.70
2	CE	65	LYS	CA-C-N	7.88	130.55	120.70
2	CE	65	LYS	C-N-CA	7.88	130.55	120.70
2	Ca	48	SER	N-CA-C	-7.88	98.49	110.70
2	Ci	48	SER	N-CA-C	-7.88	98.49	110.70
2	Ck	65	LYS	CA-C-N	7.88	130.55	120.70
2	Ck	65	LYS	C-N-CA	7.88	130.55	120.70
2	Cl	48	SER	N-CA-C	-7.88	98.49	110.70
2	Cx	65	LYS	CA-C-N	7.88	130.55	120.70
2	Cx	65	LYS	C-N-CA	7.88	130.55	120.70
4	Fc	25	PHE	N-CA-C	-7.88	102.69	111.28
2	CL	48	SER	N-CA-C	-7.88	98.49	110.70
2	CF	48	SER	N-CA-C	-7.87	98.50	110.70
2	CU	48	SER	N-CA-C	-7.87	98.50	110.70
2	CB	48	SER	N-CA-C	-7.87	98.50	110.70
2	Cq	48	SER	N-CA-C	-7.87	98.50	110.70
2	CQ	48	SER	N-CA-C	-7.87	98.50	110.70
2	CZ	48	SER	N-CA-C	-7.87	98.50	110.70
2	Cu	65	LYS	CA-C-N	7.87	130.53	120.70
2	Cu	65	LYS	C-N-CA	7.87	130.53	120.70
2	C4	65	LYS	CA-C-N	7.87	130.53	120.70
2	C4	65	LYS	C-N-CA	7.87	130.53	120.70
2	CW	65	LYS	CA-C-N	7.87	130.53	120.70
2	CW	65	LYS	C-N-CA	7.87	130.53	120.70
2	Cc	65	LYS	CA-C-N	7.87	130.53	120.70
2	Cc	65	LYS	C-N-CA	7.87	130.53	120.70
2	Cj	48	SER	N-CA-C	-7.87	98.51	110.70
2	Cw	65	LYS	CA-C-N	7.87	130.53	120.70
2	Cw	65	LYS	C-N-CA	7.87	130.53	120.70
2	Cd	48	SER	N-CA-C	-7.87	98.51	110.70
2	C6	65	LYS	CA-C-N	7.86	130.53	120.70
2	C6	65	LYS	C-N-CA	7.86	130.53	120.70
2	C7	48	SER	N-CA-C	-7.86	98.51	110.70
2	CQ	65	LYS	CA-C-N	7.86	130.53	120.70
2	CQ	65	LYS	C-N-CA	7.86	130.53	120.70
2	Ch	48	SER	N-CA-C	-7.86	98.51	110.70
4	FQ	25	PHE	N-CA-C	-7.86	102.71	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Fm	25	PHE	N-CA-C	-7.86	102.71	111.28
2	CF	65	LYS	CA-C-N	7.86	130.53	120.70
2	CF	65	LYS	C-N-CA	7.86	130.53	120.70
2	Cn	65	LYS	CA-C-N	7.86	130.53	120.70
2	Cn	65	LYS	C-N-CA	7.86	130.53	120.70
2	Cu	48	SER	N-CA-C	-7.86	98.51	110.70
2	C8	65	LYS	CA-C-N	7.86	130.53	120.70
2	C8	65	LYS	C-N-CA	7.86	130.53	120.70
2	CB	65	LYS	CA-C-N	7.86	130.52	120.70
2	CB	65	LYS	C-N-CA	7.86	130.52	120.70
2	C9	65	LYS	CA-C-N	7.86	130.52	120.70
2	C9	65	LYS	C-N-CA	7.86	130.52	120.70
2	CH	48	SER	N-CA-C	-7.86	98.52	110.70
2	Ck	48	SER	N-CA-C	-7.86	98.52	110.70
2	Cn	48	SER	N-CA-C	-7.86	98.52	110.70
2	Cs	65	LYS	CA-C-N	7.86	130.52	120.70
2	Cs	65	LYS	C-N-CA	7.86	130.52	120.70
2	C1	48	SER	N-CA-C	-7.86	98.52	110.70
2	C2	65	LYS	CA-C-N	7.86	130.52	120.70
2	C2	65	LYS	C-N-CA	7.86	130.52	120.70
2	CD	65	LYS	CA-C-N	7.86	130.52	120.70
2	CD	65	LYS	C-N-CA	7.86	130.52	120.70
2	CK	48	SER	N-CA-C	-7.86	98.52	110.70
2	CN	65	LYS	CA-C-N	7.86	130.52	120.70
2	CN	65	LYS	C-N-CA	7.86	130.52	120.70
2	Cq	65	LYS	CA-C-N	7.86	130.52	120.70
2	Cq	65	LYS	C-N-CA	7.86	130.52	120.70
2	CJ	48	SER	N-CA-C	-7.85	98.53	110.70
2	CI	48	SER	N-CA-C	-7.85	98.53	110.70
2	CN	48	SER	N-CA-C	-7.85	98.53	110.70
2	CV	65	LYS	CA-C-N	7.85	130.51	120.70
2	CV	65	LYS	C-N-CA	7.85	130.51	120.70
2	Cr	48	SER	N-CA-C	-7.85	98.53	110.70
2	Ch	65	LYS	CA-C-N	7.85	130.51	120.70
2	Ch	65	LYS	C-N-CA	7.85	130.51	120.70
2	CD	48	SER	N-CA-C	-7.85	98.53	110.70
2	C0	48	SER	N-CA-C	-7.85	98.54	110.70
2	C3	65	LYS	CA-C-N	7.85	130.51	120.70
2	C3	65	LYS	C-N-CA	7.85	130.51	120.70
2	C8	48	SER	N-CA-C	-7.85	98.54	110.70
2	CA	48	SER	N-CA-C	-7.85	98.54	110.70
2	C2	48	SER	N-CA-C	-7.84	98.54	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C6	48	SER	N-CA-C	-7.84	98.54	110.70
2	CO	48	SER	N-CA-C	-7.84	98.54	110.70
2	CP	48	SER	N-CA-C	-7.84	98.54	110.70
2	Cg	48	SER	N-CA-C	-7.84	98.54	110.70
2	CT	48	SER	N-CA-C	-7.84	98.55	110.70
2	CU	65	LYS	CA-C-N	7.84	130.50	120.70
2	CU	65	LYS	C-N-CA	7.84	130.50	120.70
2	Cb	48	SER	N-CA-C	-7.84	98.55	110.70
2	C5	48	SER	N-CA-C	-7.84	98.55	110.70
2	C5	65	LYS	CA-C-N	7.84	130.50	120.70
2	C5	65	LYS	C-N-CA	7.84	130.50	120.70
2	CJ	65	LYS	CA-C-N	7.84	130.50	120.70
2	CJ	65	LYS	C-N-CA	7.84	130.50	120.70
2	Cw	48	SER	N-CA-C	-7.84	98.55	110.70
2	CE	48	SER	N-CA-C	-7.84	98.55	110.70
2	CR	65	LYS	CA-C-N	7.84	130.50	120.70
2	CR	65	LYS	C-N-CA	7.84	130.50	120.70
2	Cc	48	SER	N-CA-C	-7.84	98.55	110.70
2	Ce	48	SER	N-CA-C	-7.84	98.55	110.70
2	Cj	65	LYS	CA-C-N	7.84	130.50	120.70
2	Cj	65	LYS	C-N-CA	7.84	130.50	120.70
2	Co	65	LYS	CA-C-N	7.84	130.50	120.70
2	Co	65	LYS	C-N-CA	7.84	130.50	120.70
2	Cr	65	LYS	CA-C-N	7.84	130.50	120.70
2	Cr	65	LYS	C-N-CA	7.84	130.50	120.70
2	C0	65	LYS	CA-C-N	7.84	130.50	120.70
2	C0	65	LYS	C-N-CA	7.84	130.50	120.70
2	C1	65	LYS	CA-C-N	7.84	130.50	120.70
2	C1	65	LYS	C-N-CA	7.84	130.50	120.70
2	CS	48	SER	N-CA-C	-7.84	98.55	110.70
2	CW	48	SER	N-CA-C	-7.84	98.55	110.70
2	CY	48	SER	N-CA-C	-7.84	98.55	110.70
2	C4	48	SER	N-CA-C	-7.83	98.56	110.70
2	CM	65	LYS	CA-C-N	7.83	130.49	120.70
2	CM	65	LYS	C-N-CA	7.83	130.49	120.70
2	CR	48	SER	N-CA-C	-7.83	98.56	110.70
2	CG	48	SER	N-CA-C	-7.83	98.56	110.70
2	CV	48	SER	N-CA-C	-7.83	98.56	110.70
2	Cs	48	SER	N-CA-C	-7.83	98.56	110.70
2	Cf	48	SER	N-CA-C	-7.83	98.56	110.70
2	C9	48	SER	N-CA-C	-7.83	98.56	110.70
2	CC	48	SER	N-CA-C	-7.83	98.57	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ce	65	LYS	CA-C-N	7.83	130.49	120.70
2	Ce	65	LYS	C-N-CA	7.83	130.49	120.70
2	Ci	65	LYS	CA-C-N	7.83	130.49	120.70
2	Ci	65	LYS	C-N-CA	7.83	130.49	120.70
2	Cv	65	LYS	CA-C-N	7.83	130.49	120.70
2	Cv	65	LYS	C-N-CA	7.83	130.49	120.70
2	CM	48	SER	N-CA-C	-7.83	98.57	110.70
2	CX	48	SER	N-CA-C	-7.83	98.57	110.70
2	CA	65	LYS	CA-C-N	7.83	130.48	120.70
2	CA	65	LYS	C-N-CA	7.83	130.48	120.70
2	CT	65	LYS	CA-C-N	7.83	130.48	120.70
2	CT	65	LYS	C-N-CA	7.83	130.48	120.70
2	Cl	65	LYS	CA-C-N	7.82	130.48	120.70
2	Cl	65	LYS	C-N-CA	7.82	130.48	120.70
2	Co	48	SER	N-CA-C	-7.82	98.57	110.70
2	Ct	65	LYS	CA-C-N	7.82	130.48	120.70
2	Ct	65	LYS	C-N-CA	7.82	130.48	120.70
2	CH	65	LYS	CA-C-N	7.82	130.47	120.70
2	CH	65	LYS	C-N-CA	7.82	130.47	120.70
2	Cb	65	LYS	CA-C-N	7.82	130.48	120.70
2	Cb	65	LYS	C-N-CA	7.82	130.48	120.70
2	Cv	48	SER	N-CA-C	-7.82	98.58	110.70
2	CX	65	LYS	CA-C-N	7.82	130.47	120.70
2	CX	65	LYS	C-N-CA	7.82	130.47	120.70
2	CY	65	LYS	CA-C-N	7.82	130.47	120.70
2	CY	65	LYS	C-N-CA	7.82	130.47	120.70
2	Cx	48	SER	N-CA-C	-7.82	98.58	110.70
2	CK	65	LYS	CA-C-N	7.81	130.47	120.70
2	CK	65	LYS	C-N-CA	7.81	130.47	120.70
2	C3	48	SER	N-CA-C	-7.81	98.60	110.70
2	Ca	65	LYS	CA-C-N	7.81	130.46	120.70
2	Ca	65	LYS	C-N-CA	7.81	130.46	120.70
2	CP	65	LYS	CA-C-N	7.81	130.46	120.70
2	CP	65	LYS	C-N-CA	7.81	130.46	120.70
2	Cf	65	LYS	CA-C-N	7.81	130.46	120.70
2	Cf	65	LYS	C-N-CA	7.81	130.46	120.70
2	CO	65	LYS	CA-C-N	7.81	130.46	120.70
2	CO	65	LYS	C-N-CA	7.81	130.46	120.70
2	Cm	65	LYS	CA-C-N	7.80	130.46	120.70
2	Cm	65	LYS	C-N-CA	7.80	130.46	120.70
2	CL	65	LYS	CA-C-N	7.80	130.45	120.70
2	CL	65	LYS	C-N-CA	7.80	130.45	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C7	65	LYS	CA-C-N	7.80	130.45	120.70
2	C7	65	LYS	C-N-CA	7.80	130.45	120.70
2	Cp	65	LYS	CA-C-N	7.80	130.45	120.70
2	Cp	65	LYS	C-N-CA	7.80	130.45	120.70
2	CG	65	LYS	CA-C-N	7.78	130.43	120.70
2	CG	65	LYS	C-N-CA	7.78	130.43	120.70
2	Cd	65	LYS	CA-C-N	7.78	130.43	120.70
2	Cd	65	LYS	C-N-CA	7.78	130.43	120.70
2	Ch	158	PHE	CB-CA-C	-7.68	101.24	110.08
2	C4	158	PHE	CB-CA-C	-7.68	101.25	110.08
2	CS	158	PHE	CB-CA-C	-7.68	101.25	110.08
2	CV	158	PHE	CB-CA-C	-7.67	101.25	110.08
2	Ce	158	PHE	CB-CA-C	-7.67	101.26	110.08
2	C3	158	PHE	CB-CA-C	-7.67	101.26	110.08
2	Cg	158	PHE	CB-CA-C	-7.67	101.26	110.08
2	Cu	158	PHE	CB-CA-C	-7.66	101.27	110.08
2	CR	158	PHE	CB-CA-C	-7.66	101.27	110.08
2	Cs	158	PHE	CB-CA-C	-7.66	101.28	110.08
2	Ct	158	PHE	CB-CA-C	-7.66	101.28	110.08
2	Ci	158	PHE	CB-CA-C	-7.65	101.28	110.08
2	Cd	158	PHE	CB-CA-C	-7.65	101.28	110.08
2	CK	158	PHE	CB-CA-C	-7.65	101.28	110.08
2	CM	158	PHE	CB-CA-C	-7.65	101.28	110.08
2	Cp	158	PHE	CB-CA-C	-7.65	101.29	110.08
2	CH	158	PHE	CB-CA-C	-7.64	101.29	110.08
2	CN	158	PHE	CB-CA-C	-7.64	101.29	110.08
2	CT	158	PHE	CB-CA-C	-7.64	101.29	110.08
2	C2	158	PHE	CB-CA-C	-7.64	101.29	110.08
2	CD	158	PHE	CB-CA-C	-7.64	101.29	110.08
2	CI	158	PHE	CB-CA-C	-7.64	101.29	110.08
2	Cb	158	PHE	CB-CA-C	-7.64	101.29	110.08
2	CW	158	PHE	CB-CA-C	-7.64	101.29	110.08
2	Ca	158	PHE	CB-CA-C	-7.64	101.29	110.08
2	CC	158	PHE	CB-CA-C	-7.64	101.29	110.08
2	Cm	158	PHE	CB-CA-C	-7.64	101.30	110.08
2	CV	104	VAL	N-CA-C	7.64	119.07	107.77
2	CZ	158	PHE	CB-CA-C	-7.64	101.30	110.08
1	Ao	156	PHE	N-CA-C	7.63	118.32	108.24
2	C7	158	PHE	CB-CA-C	-7.63	101.30	110.08
2	CE	158	PHE	CB-CA-C	-7.63	101.31	110.08
2	C0	158	PHE	CB-CA-C	-7.63	101.31	110.08
2	C6	158	PHE	CB-CA-C	-7.63	101.31	110.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CO	158	PHE	CB-CA-C	-7.63	101.31	110.08
2	CU	158	PHE	CB-CA-C	-7.63	101.31	110.08
2	Co	158	PHE	CB-CA-C	-7.63	101.31	110.08
2	Cx	158	PHE	CB-CA-C	-7.63	101.31	110.08
2	CF	158	PHE	CB-CA-C	-7.63	101.31	110.08
2	Cq	158	PHE	CB-CA-C	-7.62	101.31	110.08
2	CJ	158	PHE	CB-CA-C	-7.62	101.31	110.08
2	C9	158	PHE	CB-CA-C	-7.62	101.32	110.08
2	CB	158	PHE	CB-CA-C	-7.62	101.31	110.08
2	C6	104	VAL	N-CA-C	7.62	119.05	107.77
2	CG	158	PHE	CB-CA-C	-7.62	101.32	110.08
2	CP	158	PHE	CB-CA-C	-7.62	101.32	110.08
1	Al	156	PHE	N-CA-C	7.62	118.29	108.24
1	AO	156	PHE	N-CA-C	7.62	118.29	108.24
2	C5	158	PHE	CB-CA-C	-7.62	101.32	110.08
2	C8	158	PHE	CB-CA-C	-7.61	101.32	110.08
2	Cv	158	PHE	CB-CA-C	-7.61	101.32	110.08
1	AL	156	PHE	N-CA-C	7.61	118.29	108.24
2	CQ	158	PHE	CB-CA-C	-7.61	101.33	110.08
1	BI	156	PHE	N-CA-C	7.61	118.29	108.24
2	Cr	158	PHE	CB-CA-C	-7.61	101.33	110.08
2	Cu	104	VAL	N-CA-C	7.61	119.03	107.77
1	AE	156	PHE	N-CA-C	7.61	118.28	108.24
2	CN	104	VAL	N-CA-C	7.61	119.03	107.77
2	Ca	104	VAL	N-CA-C	7.61	119.03	107.77
2	C9	104	VAL	N-CA-C	7.60	119.02	107.77
2	CA	158	PHE	CB-CA-C	-7.60	101.33	110.08
2	CL	158	PHE	CB-CA-C	-7.60	101.34	110.08
1	Ag	156	PHE	N-CA-C	7.60	118.28	108.24
2	C4	104	VAL	N-CA-C	7.60	119.02	107.77
2	CX	158	PHE	CB-CA-C	-7.60	101.34	110.08
2	Ck	158	PHE	CB-CA-C	-7.60	101.34	110.08
1	AU	156	PHE	N-CA-C	7.60	118.27	108.24
2	CO	104	VAL	N-CA-C	7.60	119.02	107.77
1	AH	156	PHE	N-CA-C	7.60	118.27	108.24
2	C1	158	PHE	CB-CA-C	-7.60	101.34	110.08
2	CJ	104	VAL	N-CA-C	7.60	119.02	107.77
2	CM	104	VAL	N-CA-C	7.60	119.02	107.77
2	C2	104	VAL	N-CA-C	7.60	119.02	107.77
2	Cw	158	PHE	CB-CA-C	-7.60	101.34	110.08
1	AZ	156	PHE	N-CA-C	7.60	118.27	108.24
2	Cc	158	PHE	CB-CA-C	-7.60	101.34	110.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Am	156	PHE	N-CA-C	7.59	118.27	108.24
2	CS	104	VAL	N-CA-C	7.59	119.01	107.77
2	CT	104	VAL	N-CA-C	7.59	119.01	107.77
2	CY	158	PHE	CB-CA-C	-7.59	101.35	110.08
2	Cs	104	VAL	N-CA-C	7.59	119.00	107.77
1	BA	156	PHE	N-CA-C	7.59	118.26	108.24
2	Cf	158	PHE	CB-CA-C	-7.59	101.35	110.08
1	A7	156	PHE	N-CA-C	7.59	118.25	108.24
1	AY	156	PHE	N-CA-C	7.59	118.25	108.24
2	Cn	158	PHE	CB-CA-C	-7.59	101.36	110.08
2	Co	104	VAL	N-CA-C	7.58	119.00	107.77
2	Cq	104	VAL	N-CA-C	7.58	118.99	107.77
2	CH	104	VAL	N-CA-C	7.58	118.99	107.77
2	CR	104	VAL	N-CA-C	7.58	118.99	107.77
1	A3	156	PHE	N-CA-C	7.58	118.25	108.24
1	Aa	156	PHE	N-CA-C	7.58	118.24	108.24
2	Ck	104	VAL	N-CA-C	7.58	118.99	107.77
2	Cl	158	PHE	CB-CA-C	-7.58	101.36	110.08
1	AJ	156	PHE	N-CA-C	7.58	118.24	108.24
1	AN	156	PHE	N-CA-C	7.58	118.24	108.24
1	BG	156	PHE	N-CA-C	7.58	118.24	108.24
2	C8	104	VAL	N-CA-C	7.58	118.98	107.77
2	Cl	104	VAL	N-CA-C	7.58	118.98	107.77
1	Aj	156	PHE	N-CA-C	7.57	118.24	108.24
2	CC	104	VAL	N-CA-C	7.57	118.98	107.77
2	CP	104	VAL	N-CA-C	7.57	118.98	107.77
2	Cj	104	VAL	N-CA-C	7.57	118.98	107.77
2	Cj	158	PHE	CB-CA-C	-7.57	101.37	110.08
1	AS	156	PHE	N-CA-C	7.57	118.23	108.24
1	BF	156	PHE	N-CA-C	7.57	118.23	108.24
2	Cg	104	VAL	N-CA-C	7.57	118.98	107.77
1	AT	156	PHE	N-CA-C	7.57	118.23	108.24
1	BE	156	PHE	N-CA-C	7.57	118.23	108.24
2	CZ	104	VAL	N-CA-C	7.57	118.97	107.77
2	Ci	104	VAL	N-CA-C	7.57	118.98	107.77
2	C5	104	VAL	N-CA-C	7.57	118.97	107.77
1	AB	156	PHE	N-CA-C	7.57	118.23	108.24
1	BC	156	PHE	N-CA-C	7.57	118.23	108.24
2	C3	104	VAL	N-CA-C	7.57	118.97	107.77
2	Cr	104	VAL	N-CA-C	7.57	118.97	107.77
1	AK	156	PHE	N-CA-C	7.57	118.22	108.24
1	Ae	156	PHE	N-CA-C	7.57	118.23	108.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ak	156	PHE	N-CA-C	7.57	118.23	108.24
1	Af	156	PHE	N-CA-C	7.56	118.22	108.24
2	Cp	104	VAL	N-CA-C	7.56	118.97	107.77
2	CE	104	VAL	N-CA-C	7.56	118.96	107.77
2	Cn	104	VAL	N-CA-C	7.56	118.96	107.77
2	Cb	104	VAL	N-CA-C	7.56	118.96	107.77
1	AI	156	PHE	N-CA-C	7.56	118.22	108.24
1	Ac	156	PHE	N-CA-C	7.56	118.22	108.24
2	CI	104	VAL	N-CA-C	7.56	118.96	107.77
1	AM	156	PHE	N-CA-C	7.56	118.22	108.24
2	C1	104	VAL	N-CA-C	7.56	118.95	107.77
2	C7	104	VAL	N-CA-C	7.56	118.95	107.77
2	CG	104	VAL	N-CA-C	7.56	118.95	107.77
2	Cf	104	VAL	N-CA-C	7.56	118.96	107.77
2	Ct	104	VAL	N-CA-C	7.56	118.95	107.77
1	AD	156	PHE	N-CA-C	7.56	118.21	108.24
2	CL	104	VAL	N-CA-C	7.56	118.95	107.77
2	CA	104	VAL	N-CA-C	7.55	118.95	107.77
2	Cx	104	VAL	N-CA-C	7.55	118.95	107.77
2	CU	104	VAL	N-CA-C	7.55	118.95	107.77
2	CF	104	VAL	N-CA-C	7.55	118.95	107.77
2	Ce	104	VAL	N-CA-C	7.55	118.95	107.77
1	A5	156	PHE	N-CA-C	7.55	118.21	108.24
1	AA	156	PHE	N-CA-C	7.55	118.21	108.24
1	An	156	PHE	N-CA-C	7.55	118.21	108.24
2	Ch	104	VAL	N-CA-C	7.55	118.94	107.77
1	AR	156	PHE	N-CA-C	7.55	118.20	108.24
2	CQ	115	ASN	N-CA-C	7.55	122.13	108.17
2	Cm	104	VAL	N-CA-C	7.55	118.94	107.77
2	CD	104	VAL	N-CA-C	7.55	118.94	107.77
2	Cv	104	VAL	N-CA-C	7.55	118.94	107.77
1	A8	156	PHE	N-CA-C	7.54	118.20	108.24
1	AG	156	PHE	N-CA-C	7.54	118.20	108.24
1	AQ	156	PHE	N-CA-C	7.54	118.20	108.24
1	BB	156	PHE	N-CA-C	7.54	118.20	108.24
1	BH	156	PHE	N-CA-C	7.54	118.20	108.24
2	CY	104	VAL	N-CA-C	7.54	118.93	107.77
2	Cd	104	VAL	N-CA-C	7.54	118.93	107.77
1	Ah	156	PHE	N-CA-C	7.54	118.19	108.24
1	A9	156	PHE	N-CA-C	7.54	118.19	108.24
2	Cc	104	VAL	N-CA-C	7.54	118.93	107.77
2	Cw	104	VAL	N-CA-C	7.54	118.93	107.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A0	156	PHE	N-CA-C	7.54	118.19	108.24
1	A4	156	PHE	N-CA-C	7.54	118.19	108.24
1	AF	156	PHE	N-CA-C	7.54	118.19	108.24
1	AV	156	PHE	N-CA-C	7.54	118.19	108.24
1	BD	156	PHE	N-CA-C	7.54	118.19	108.24
2	C0	104	VAL	N-CA-C	7.54	118.92	107.77
2	CR	115	ASN	N-CA-C	7.54	122.11	108.17
2	CX	104	VAL	N-CA-C	7.54	118.92	107.77
2	CK	104	VAL	N-CA-C	7.53	118.92	107.77
1	AX	156	PHE	N-CA-C	7.53	118.18	108.24
1	Ad	156	PHE	N-CA-C	7.53	118.18	108.24
1	Ai	156	PHE	N-CA-C	7.53	118.18	108.24
1	AP	156	PHE	N-CA-C	7.53	118.18	108.24
2	C9	115	ASN	N-CA-C	7.53	122.10	108.17
1	AC	156	PHE	N-CA-C	7.53	118.18	108.24
2	CW	104	VAL	N-CA-C	7.53	118.91	107.77
1	AW	156	PHE	N-CA-C	7.52	118.17	108.24
1	Ab	156	PHE	N-CA-C	7.52	118.17	108.24
2	Cj	115	ASN	N-CA-C	7.52	122.09	108.17
1	A2	156	PHE	N-CA-C	7.52	118.17	108.24
1	A1	156	PHE	N-CA-C	7.52	118.16	108.24
2	CE	115	ASN	N-CA-C	7.52	122.08	108.17
2	CL	115	ASN	N-CA-C	7.52	122.08	108.17
2	CQ	104	VAL	N-CA-C	7.52	118.90	107.77
2	CT	115	ASN	N-CA-C	7.52	122.08	108.17
2	CC	115	ASN	N-CA-C	7.52	122.08	108.17
2	C5	115	ASN	N-CA-C	7.51	122.07	108.17
2	CJ	115	ASN	N-CA-C	7.51	122.07	108.17
2	CX	115	ASN	N-CA-C	7.51	122.07	108.17
2	CB	104	VAL	N-CA-C	7.51	118.89	107.77
2	CH	115	ASN	N-CA-C	7.51	122.07	108.17
2	Cq	115	ASN	N-CA-C	7.51	122.07	108.17
2	C2	115	ASN	N-CA-C	7.51	122.07	108.17
2	C3	115	ASN	N-CA-C	7.51	122.07	108.17
2	CI	115	ASN	N-CA-C	7.51	122.06	108.17
2	CG	115	ASN	N-CA-C	7.51	122.06	108.17
2	C4	115	ASN	N-CA-C	7.51	122.06	108.17
2	C8	115	ASN	N-CA-C	7.51	122.06	108.17
2	CK	115	ASN	N-CA-C	7.51	122.06	108.17
2	Ca	115	ASN	N-CA-C	7.51	122.06	108.17
2	Cr	115	ASN	N-CA-C	7.51	122.06	108.17
2	Cs	115	ASN	N-CA-C	7.51	122.06	108.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cm	115	ASN	N-CA-C	7.50	122.05	108.17
2	CA	115	ASN	N-CA-C	7.50	122.05	108.17
2	Cu	115	ASN	N-CA-C	7.50	122.05	108.17
2	C6	115	ASN	N-CA-C	7.50	122.05	108.17
2	CP	115	ASN	N-CA-C	7.50	122.04	108.17
2	CU	115	ASN	N-CA-C	7.50	122.04	108.17
2	Cc	115	ASN	N-CA-C	7.50	122.04	108.17
1	A6	156	PHE	N-CA-C	7.50	118.13	108.24
2	CD	115	ASN	N-CA-C	7.50	122.04	108.17
2	C1	115	ASN	N-CA-C	7.50	122.04	108.17
2	CO	115	ASN	N-CA-C	7.49	122.03	108.17
2	Ch	115	ASN	N-CA-C	7.49	122.02	108.17
2	CM	115	ASN	N-CA-C	7.49	122.02	108.17
2	Cl	115	ASN	N-CA-C	7.49	122.02	108.17
2	C0	115	ASN	N-CA-C	7.49	122.02	108.17
2	Ce	115	ASN	N-CA-C	7.49	122.02	108.17
2	Ct	115	ASN	N-CA-C	7.49	122.02	108.17
2	CS	115	ASN	N-CA-C	7.48	122.01	108.17
2	Ck	115	ASN	N-CA-C	7.48	122.01	108.17
2	Cv	115	ASN	N-CA-C	7.48	122.01	108.17
2	CF	115	ASN	N-CA-C	7.48	122.01	108.17
2	Co	115	ASN	N-CA-C	7.48	122.01	108.17
2	Cp	115	ASN	N-CA-C	7.48	122.01	108.17
2	CN	115	ASN	N-CA-C	7.48	122.01	108.17
2	Cf	115	ASN	N-CA-C	7.48	122.01	108.17
2	Ci	115	ASN	N-CA-C	7.48	122.01	108.17
2	CB	115	ASN	N-CA-C	7.48	122.00	108.17
2	Cb	115	ASN	N-CA-C	7.48	122.00	108.17
2	CW	115	ASN	N-CA-C	7.47	122.00	108.17
2	Cd	115	ASN	N-CA-C	7.47	122.00	108.17
2	CV	115	ASN	N-CA-C	7.47	121.99	108.17
2	Cn	115	ASN	N-CA-C	7.47	121.99	108.17
2	CZ	115	ASN	N-CA-C	7.47	121.99	108.17
2	Cw	115	ASN	N-CA-C	7.47	121.99	108.17
2	Cg	115	ASN	N-CA-C	7.47	121.99	108.17
2	CY	115	ASN	N-CA-C	7.46	121.97	108.17
2	C7	115	ASN	N-CA-C	7.46	121.97	108.17
2	Cx	115	ASN	N-CA-C	7.46	121.97	108.17
2	Cx	129	VAL	N-CA-C	7.32	116.68	108.05
2	CV	129	VAL	N-CA-C	7.30	116.66	108.05
2	CU	129	VAL	N-CA-C	7.29	116.65	108.05
2	Ct	129	VAL	N-CA-C	7.29	116.65	108.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CT	129	VAL	N-CA-C	7.29	116.65	108.05
2	CW	129	VAL	N-CA-C	7.29	116.65	108.05
2	Cj	129	VAL	N-CA-C	7.29	116.65	108.05
2	C1	129	VAL	N-CA-C	7.28	116.64	108.05
2	CX	129	VAL	N-CA-C	7.28	116.64	108.05
2	C4	129	VAL	N-CA-C	7.28	116.63	108.05
2	CZ	129	VAL	N-CA-C	7.28	116.64	108.05
2	Cs	129	VAL	N-CA-C	7.28	116.64	108.05
2	C8	129	VAL	N-CA-C	7.27	116.63	108.05
2	Cm	129	VAL	N-CA-C	7.27	116.63	108.05
2	CK	129	VAL	N-CA-C	7.27	116.62	108.05
2	C2	129	VAL	N-CA-C	7.26	116.62	108.05
2	CJ	129	VAL	N-CA-C	7.26	116.62	108.05
2	Cd	129	VAL	N-CA-C	7.26	116.62	108.05
2	Cp	129	VAL	N-CA-C	7.26	116.62	108.05
2	CO	129	VAL	N-CA-C	7.26	116.62	108.05
2	Ce	129	VAL	N-CA-C	7.26	116.62	108.05
2	Cg	129	VAL	N-CA-C	7.26	116.62	108.05
2	CE	129	VAL	N-CA-C	7.26	116.61	108.05
2	Ch	129	VAL	N-CA-C	7.26	116.61	108.05
2	Ci	129	VAL	N-CA-C	7.26	116.61	108.05
2	Cb	129	VAL	N-CA-C	7.25	116.61	108.05
2	C7	129	VAL	N-CA-C	7.25	116.61	108.05
2	Co	129	VAL	N-CA-C	7.25	116.61	108.05
2	Cw	129	VAL	N-CA-C	7.25	116.61	108.05
2	Cv	129	VAL	N-CA-C	7.25	116.61	108.05
2	C9	129	VAL	N-CA-C	7.25	116.60	108.05
2	CG	129	VAL	N-CA-C	7.25	116.60	108.05
2	Cu	129	VAL	N-CA-C	7.25	116.60	108.05
2	C3	129	VAL	N-CA-C	7.24	116.60	108.05
2	CP	129	VAL	N-CA-C	7.24	116.60	108.05
2	C0	129	VAL	N-CA-C	7.24	116.60	108.05
2	CA	129	VAL	N-CA-C	7.24	116.59	108.05
2	CL	129	VAL	N-CA-C	7.24	116.60	108.05
2	C6	129	VAL	N-CA-C	7.24	116.59	108.05
2	CM	129	VAL	N-CA-C	7.24	116.59	108.05
2	CR	129	VAL	N-CA-C	7.24	116.59	108.05
2	Cn	129	VAL	N-CA-C	7.23	116.58	108.05
2	Cq	129	VAL	N-CA-C	7.23	116.58	108.05
2	Cc	129	VAL	N-CA-C	7.23	116.58	108.05
3	D9	119	LYS	CA-C-O	-7.23	110.17	120.51
2	Ci	145	LEU	N-CA-C	-7.23	98.46	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CN	129	VAL	N-CA-C	7.22	116.58	108.05
2	Ca	129	VAL	N-CA-C	7.22	116.58	108.05
2	Cr	129	VAL	N-CA-C	7.22	116.58	108.05
2	C3	145	LEU	N-CA-C	-7.22	98.47	109.95
2	CB	129	VAL	N-CA-C	7.22	116.57	108.05
2	CI	129	VAL	N-CA-C	7.22	116.57	108.05
2	Cj	145	LEU	N-CA-C	-7.22	98.47	109.95
3	D1	119	LYS	CA-C-O	-7.22	110.19	120.51
2	CC	129	VAL	N-CA-C	7.22	116.56	108.05
2	CQ	129	VAL	N-CA-C	7.22	116.57	108.05
2	Cg	145	LEU	N-CA-C	-7.21	98.48	109.95
2	CF	129	VAL	N-CA-C	7.21	116.56	108.05
2	Cf	129	VAL	N-CA-C	7.21	116.56	108.05
2	C1	145	LEU	N-CA-C	-7.21	98.49	109.95
2	CH	129	VAL	N-CA-C	7.21	116.56	108.05
2	CY	129	VAL	N-CA-C	7.21	116.56	108.05
3	DM	119	LYS	CA-C-O	-7.21	110.20	120.51
2	Cd	145	LEU	N-CA-C	-7.21	98.49	109.95
2	Ck	145	LEU	N-CA-C	-7.21	98.49	109.95
2	Cp	145	LEU	N-CA-C	-7.21	98.49	109.95
3	DF	119	LYS	CA-C-O	-7.21	110.20	120.51
2	C5	129	VAL	N-CA-C	7.21	116.55	108.05
2	C8	145	LEU	N-CA-C	-7.21	98.49	109.95
2	CJ	145	LEU	N-CA-C	-7.20	98.50	109.95
2	Ce	145	LEU	N-CA-C	-7.20	98.50	109.95
2	Ck	129	VAL	N-CA-C	7.20	116.55	108.05
3	D4	119	LYS	CA-C-O	-7.20	110.21	120.51
3	DX	119	LYS	CA-C-O	-7.20	110.21	120.51
3	Dg	119	LYS	CA-C-O	-7.20	110.21	120.51
2	CS	129	VAL	N-CA-C	7.20	116.55	108.05
2	CS	145	LEU	N-CA-C	-7.20	98.50	109.95
2	CZ	145	LEU	N-CA-C	-7.20	98.50	109.95
2	CD	129	VAL	N-CA-C	7.20	116.55	108.05
2	CH	145	LEU	N-CA-C	-7.20	98.50	109.95
2	Cu	145	LEU	N-CA-C	-7.20	98.50	109.95
2	C6	145	LEU	N-CA-C	-7.20	98.51	109.95
2	CM	145	LEU	N-CA-C	-7.20	98.51	109.95
2	C7	145	LEU	N-CA-C	-7.20	98.51	109.95
2	CI	145	LEU	N-CA-C	-7.20	98.51	109.95
2	C4	145	LEU	N-CA-C	-7.19	98.51	109.95
3	EC	119	LYS	CA-C-O	-7.19	110.22	120.51
3	DG	119	LYS	CA-C-O	-7.19	110.22	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CB	145	LEU	N-CA-C	-7.19	98.52	109.95
2	CY	145	LEU	N-CA-C	-7.19	98.52	109.95
2	Cf	145	LEU	N-CA-C	-7.19	98.52	109.95
3	D5	119	LYS	CA-C-O	-7.19	110.23	120.51
2	CA	145	LEU	N-CA-C	-7.19	98.52	109.95
2	Cn	145	LEU	N-CA-C	-7.19	98.52	109.95
2	Cq	145	LEU	N-CA-C	-7.19	98.52	109.95
2	Cr	145	LEU	N-CA-C	-7.19	98.52	109.95
3	D6	119	LYS	CA-C-O	-7.19	110.23	120.51
3	DA	119	LYS	CA-C-O	-7.19	110.23	120.51
3	De	119	LYS	CA-C-O	-7.19	110.23	120.51
2	Ct	145	LEU	N-CA-C	-7.19	98.53	109.95
2	C2	145	LEU	N-CA-C	-7.18	98.53	109.95
2	C5	145	LEU	N-CA-C	-7.18	98.53	109.95
2	CG	145	LEU	N-CA-C	-7.18	98.53	109.95
2	CQ	145	LEU	N-CA-C	-7.18	98.53	109.95
2	CV	145	LEU	N-CA-C	-7.18	98.53	109.95
3	DN	119	LYS	CA-C-O	-7.18	110.23	120.51
3	Dh	119	LYS	CA-C-O	-7.18	110.24	120.51
2	CX	145	LEU	N-CA-C	-7.18	98.53	109.95
2	Ch	145	LEU	N-CA-C	-7.18	98.53	109.95
2	Cs	145	LEU	N-CA-C	-7.18	98.53	109.95
2	Cw	145	LEU	N-CA-C	-7.18	98.53	109.95
3	Dk	119	LYS	CA-C-O	-7.18	110.24	120.51
2	Ca	145	LEU	N-CA-C	-7.18	98.53	109.95
2	CT	145	LEU	N-CA-C	-7.18	98.53	109.95
3	D0	119	LYS	CA-C-O	-7.18	110.24	120.51
3	Dc	119	LYS	CA-C-O	-7.18	110.24	120.51
3	Dn	119	LYS	CA-C-O	-7.18	110.24	120.51
2	C0	145	LEU	N-CA-C	-7.18	98.54	109.95
3	DH	119	LYS	CA-C-O	-7.18	110.25	120.51
3	DJ	119	LYS	CA-C-O	-7.17	110.25	120.51
3	Dp	119	LYS	CA-C-O	-7.17	110.25	120.51
3	Dj	119	LYS	CA-C-O	-7.17	110.25	120.51
3	D2	119	LYS	CA-C-O	-7.17	110.25	120.51
3	DS	119	LYS	CA-C-O	-7.17	110.25	120.51
3	DI	119	LYS	CA-C-O	-7.17	110.25	120.51
2	Cb	145	LEU	N-CA-C	-7.17	98.55	109.95
3	EA	119	LYS	CA-C-O	-7.17	110.26	120.51
2	CK	145	LEU	N-CA-C	-7.17	98.55	109.95
2	CP	145	LEU	N-CA-C	-7.17	98.55	109.95
3	DB	119	LYS	CA-C-O	-7.17	110.26	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DI	119	LYS	CA-C-O	-7.17	110.26	120.51
3	DZ	119	LYS	CA-C-O	-7.17	110.26	120.51
2	CR	145	LEU	N-CA-C	-7.17	98.55	109.95
2	Cl	145	LEU	N-CA-C	-7.17	98.56	109.95
2	Cm	145	LEU	N-CA-C	-7.17	98.56	109.95
3	Df	119	LYS	CA-C-O	-7.17	110.26	120.51
3	DD	119	LYS	CA-C-O	-7.17	110.27	120.51
2	CW	145	LEU	N-CA-C	-7.16	98.56	109.95
2	Cv	145	LEU	N-CA-C	-7.16	98.56	109.95
3	DE	119	LYS	CA-C-O	-7.16	110.27	120.51
3	DU	119	LYS	CA-C-O	-7.16	110.27	120.51
2	CU	145	LEU	N-CA-C	-7.16	98.56	109.95
2	Cx	145	LEU	N-CA-C	-7.16	98.56	109.95
2	Co	145	LEU	N-CA-C	-7.16	98.57	109.95
3	Da	119	LYS	CA-C-O	-7.16	110.28	120.51
3	Dr	119	LYS	CA-C-O	-7.16	110.28	120.51
2	CF	145	LEU	N-CA-C	-7.16	98.57	109.95
2	Cc	145	LEU	N-CA-C	-7.16	98.57	109.95
3	D8	119	LYS	CA-C-O	-7.16	110.28	120.51
3	Ds	119	LYS	CA-C-O	-7.16	110.28	120.51
2	CC	145	LEU	N-CA-C	-7.15	98.57	109.95
2	Cl	129	VAL	N-CA-C	7.15	116.49	108.05
2	CD	145	LEU	N-CA-C	-7.15	98.58	109.95
3	Di	119	LYS	CA-C-O	-7.15	110.28	120.51
2	C9	145	LEU	N-CA-C	-7.15	98.58	109.95
2	CL	145	LEU	N-CA-C	-7.15	98.58	109.95
3	DK	119	LYS	CA-C-O	-7.15	110.28	120.51
3	Dm	119	LYS	CA-C-O	-7.15	110.28	120.51
3	Do	119	LYS	CA-C-O	-7.15	110.28	120.51
2	CE	145	LEU	N-CA-C	-7.15	98.58	109.95
3	EE	119	LYS	CA-C-O	-7.15	110.29	120.51
1	Am	18	ALA	N-CA-C	7.15	126.02	110.80
3	DT	119	LYS	CA-C-O	-7.14	110.29	120.51
3	Dq	119	LYS	CA-C-O	-7.14	110.29	120.51
1	Ab	18	ALA	N-CA-C	7.14	126.01	110.80
2	CN	145	LEU	N-CA-C	-7.14	98.59	109.95
3	D3	119	LYS	CA-C-O	-7.14	110.30	120.51
3	DC	119	LYS	CA-C-O	-7.14	110.30	120.51
3	DQ	119	LYS	CA-C-O	-7.14	110.30	120.51
3	DY	119	LYS	CA-C-O	-7.14	110.30	120.51
3	EB	119	LYS	CA-C-O	-7.14	110.30	120.51
1	Ad	18	ALA	N-CA-C	7.14	126.00	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BE	18	ALA	N-CA-C	7.14	126.00	110.80
3	Dd	119	LYS	CA-C-O	-7.14	110.30	120.51
3	DL	119	LYS	CA-C-O	-7.14	110.30	120.51
3	DO	119	LYS	CA-C-O	-7.14	110.30	120.51
3	DR	119	LYS	CA-C-O	-7.13	110.31	120.51
1	BI	18	ALA	N-CA-C	7.13	125.99	110.80
1	AR	18	ALA	N-CA-C	7.13	125.99	110.80
1	A1	18	ALA	N-CA-C	7.13	125.98	110.80
1	Ag	18	ALA	N-CA-C	7.13	125.98	110.80
1	Ai	18	ALA	N-CA-C	7.13	125.98	110.80
3	DV	119	LYS	CA-C-O	-7.13	110.32	120.51
3	ED	119	LYS	CA-C-O	-7.13	110.32	120.51
1	AC	18	ALA	N-CA-C	7.12	125.98	110.80
3	D7	119	LYS	CA-C-O	-7.12	110.32	120.51
2	CO	145	LEU	N-CA-C	-7.12	98.62	109.95
3	DW	119	LYS	CA-C-O	-7.12	110.32	120.51
3	Db	119	LYS	CA-C-O	-7.12	110.32	120.51
3	DP	119	LYS	CA-C-O	-7.12	110.33	120.51
1	AD	18	ALA	N-CA-C	7.12	125.97	110.80
1	AS	18	ALA	N-CA-C	7.12	125.97	110.80
1	AU	18	ALA	N-CA-C	7.12	125.96	110.80
1	AY	18	ALA	N-CA-C	7.12	125.96	110.80
1	Al	18	ALA	N-CA-C	7.12	125.95	110.80
1	An	18	ALA	N-CA-C	7.12	125.96	110.80
1	BC	18	ALA	N-CA-C	7.12	125.96	110.80
1	Ac	18	ALA	N-CA-C	7.11	125.95	110.80
1	Af	18	ALA	N-CA-C	7.11	125.95	110.80
1	BG	18	ALA	N-CA-C	7.11	125.95	110.80
1	BH	18	ALA	N-CA-C	7.11	125.95	110.80
1	AI	18	ALA	N-CA-C	7.11	125.95	110.80
1	AM	18	ALA	N-CA-C	7.11	125.94	110.80
1	AX	18	ALA	N-CA-C	7.11	125.95	110.80
1	A2	18	ALA	N-CA-C	7.11	125.94	110.80
1	AH	18	ALA	N-CA-C	7.11	125.94	110.80
1	AJ	18	ALA	N-CA-C	7.11	125.94	110.80
1	A8	18	ALA	N-CA-C	7.11	125.94	110.80
1	AG	18	ALA	N-CA-C	7.11	125.94	110.80
1	A6	18	ALA	N-CA-C	7.11	125.93	110.80
1	Aj	18	ALA	N-CA-C	7.11	125.94	110.80
1	BA	18	ALA	N-CA-C	7.10	125.93	110.80
1	BF	18	ALA	N-CA-C	7.10	125.93	110.80
1	A5	18	ALA	N-CA-C	7.10	125.93	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AQ	18	ALA	N-CA-C	7.10	125.93	110.80
1	AV	18	ALA	N-CA-C	7.10	125.92	110.80
1	AZ	18	ALA	N-CA-C	7.10	125.92	110.80
1	A0	18	ALA	N-CA-C	7.10	125.92	110.80
1	A4	18	ALA	N-CA-C	7.10	125.92	110.80
1	A7	18	ALA	N-CA-C	7.10	125.92	110.80
1	AF	18	ALA	N-CA-C	7.10	125.92	110.80
1	AP	18	ALA	N-CA-C	7.10	125.92	110.80
1	AW	18	ALA	N-CA-C	7.10	125.92	110.80
1	BB	18	ALA	N-CA-C	7.10	125.92	110.80
1	AO	18	ALA	N-CA-C	7.10	125.91	110.80
1	Aa	18	ALA	N-CA-C	7.09	125.91	110.80
1	BD	18	ALA	N-CA-C	7.09	125.91	110.80
1	AT	18	ALA	N-CA-C	7.09	125.91	110.80
1	AL	18	ALA	N-CA-C	7.09	125.90	110.80
1	Ak	18	ALA	N-CA-C	7.09	125.90	110.80
1	AA	18	ALA	N-CA-C	7.09	125.90	110.80
1	AB	18	ALA	N-CA-C	7.09	125.89	110.80
1	AN	18	ALA	N-CA-C	7.09	125.89	110.80
1	AE	18	ALA	N-CA-C	7.08	125.89	110.80
1	Ao	18	ALA	N-CA-C	7.08	125.89	110.80
1	Ae	18	ALA	N-CA-C	7.08	125.88	110.80
1	A3	18	ALA	N-CA-C	7.08	125.88	110.80
1	A9	18	ALA	N-CA-C	7.08	125.88	110.80
1	AK	18	ALA	N-CA-C	7.08	125.87	110.80
1	Ah	18	ALA	N-CA-C	7.07	125.85	110.80
3	D9	208	VAL	N-CA-C	7.03	117.78	107.37
3	Dc	208	VAL	N-CA-C	7.03	117.77	107.37
3	Dn	208	VAL	N-CA-C	7.02	117.76	107.37
3	DW	208	VAL	N-CA-C	7.01	117.75	107.37
3	Da	208	VAL	N-CA-C	7.01	117.75	107.37
3	DR	208	VAL	N-CA-C	7.01	117.74	107.37
3	DO	208	VAL	N-CA-C	7.01	117.74	107.37
3	DU	208	VAL	N-CA-C	7.00	117.74	107.37
3	DH	208	VAL	N-CA-C	7.00	117.73	107.37
3	EA	208	VAL	N-CA-C	7.00	117.73	107.37
3	DP	208	VAL	N-CA-C	7.00	117.73	107.37
3	Ds	208	VAL	N-CA-C	7.00	117.73	107.37
1	BG	207	CYS	N-CA-C	6.99	125.70	110.80
3	D2	208	VAL	N-CA-C	6.99	117.72	107.37
3	D3	208	VAL	N-CA-C	6.99	117.72	107.37
3	DM	208	VAL	N-CA-C	6.99	117.72	107.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DI	208	VAL	N-CA-C	6.99	117.72	107.37
1	An	207	CYS	N-CA-C	6.99	125.69	110.80
2	CG	204	GLY	CA-C-N	6.99	127.55	120.14
2	CG	204	GLY	C-N-CA	6.99	127.55	120.14
3	DA	208	VAL	N-CA-C	6.99	117.71	107.37
3	De	208	VAL	N-CA-C	6.99	117.71	107.37
3	D5	208	VAL	N-CA-C	6.99	117.71	107.37
3	Db	208	VAL	N-CA-C	6.99	117.71	107.37
3	D6	208	VAL	N-CA-C	6.99	117.71	107.37
3	Di	208	VAL	N-CA-C	6.99	117.71	107.37
3	Dd	208	VAL	N-CA-C	6.98	117.71	107.37
1	Af	207	CYS	N-CA-C	6.98	125.67	110.80
3	DT	208	VAL	N-CA-C	6.98	117.70	107.37
3	EC	208	VAL	N-CA-C	6.98	117.70	107.37
3	DB	208	VAL	N-CA-C	6.98	117.70	107.37
1	AI	207	CYS	N-CA-C	6.98	125.66	110.80
3	D7	208	VAL	N-CA-C	6.98	117.70	107.37
3	DJ	208	VAL	N-CA-C	6.97	117.69	107.37
3	DL	208	VAL	N-CA-C	6.97	117.69	107.37
1	BE	207	CYS	N-CA-C	6.97	125.65	110.80
3	D0	208	VAL	N-CA-C	6.97	117.69	107.37
3	D1	208	VAL	N-CA-C	6.97	117.69	107.37
3	DS	208	VAL	N-CA-C	6.97	117.69	107.37
3	DX	208	VAL	N-CA-C	6.97	117.69	107.37
1	AP	207	CYS	N-CA-C	6.97	125.65	110.80
1	Aj	207	CYS	N-CA-C	6.97	125.65	110.80
2	Cr	204	GLY	CA-C-N	6.97	127.53	120.14
2	Cr	204	GLY	C-N-CA	6.97	127.53	120.14
3	DE	208	VAL	N-CA-C	6.97	117.69	107.37
1	AS	207	CYS	N-CA-C	6.97	125.65	110.80
3	ED	208	VAL	N-CA-C	6.97	117.69	107.37
1	A4	207	CYS	N-CA-C	6.97	125.64	110.80
1	AK	207	CYS	N-CA-C	6.97	125.64	110.80
3	DF	208	VAL	N-CA-C	6.97	117.68	107.37
3	DG	208	VAL	N-CA-C	6.97	117.68	107.37
1	BG	167	VAL	N-CA-C	6.96	114.80	107.76
1	AT	207	CYS	N-CA-C	6.96	125.63	110.80
3	D8	208	VAL	N-CA-C	6.96	117.67	107.37
3	Dk	208	VAL	N-CA-C	6.96	117.68	107.37
3	Dm	208	VAL	N-CA-C	6.96	117.67	107.37
3	Dp	208	VAL	N-CA-C	6.96	117.67	107.37
3	EE	208	VAL	N-CA-C	6.96	117.67	107.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AQ	207	CYS	N-CA-C	6.96	125.63	110.80
3	DQ	208	VAL	N-CA-C	6.96	117.67	107.37
3	DK	208	VAL	N-CA-C	6.96	117.67	107.37
3	DZ	208	VAL	N-CA-C	6.96	117.67	107.37
3	Dh	208	VAL	N-CA-C	6.96	117.67	107.37
3	Dq	208	VAL	N-CA-C	6.96	117.67	107.37
1	AD	207	CYS	N-CA-C	6.96	125.62	110.80
1	AR	207	CYS	N-CA-C	6.96	125.62	110.80
1	Aa	207	CYS	N-CA-C	6.96	125.62	110.80
3	DC	208	VAL	N-CA-C	6.96	117.67	107.37
1	AJ	207	CYS	N-CA-C	6.96	125.62	110.80
1	Ab	207	CYS	N-CA-C	6.96	125.62	110.80
1	Al	207	CYS	N-CA-C	6.96	125.62	110.80
3	Dj	208	VAL	N-CA-C	6.96	117.67	107.37
1	Am	167	VAL	N-CA-C	6.96	114.78	107.76
2	CQ	204	GLY	CA-C-N	6.96	127.51	120.14
2	CQ	204	GLY	C-N-CA	6.96	127.51	120.14
3	DD	208	VAL	N-CA-C	6.96	117.66	107.37
3	DV	208	VAL	N-CA-C	6.96	117.66	107.37
3	DY	208	VAL	N-CA-C	6.96	117.66	107.37
1	A6	207	CYS	N-CA-C	6.95	125.61	110.80
1	AB	207	CYS	N-CA-C	6.95	125.61	110.80
1	AF	207	CYS	N-CA-C	6.95	125.61	110.80
2	CT	204	GLY	CA-C-N	6.95	127.51	120.14
2	CT	204	GLY	C-N-CA	6.95	127.51	120.14
3	D4	208	VAL	N-CA-C	6.95	117.66	107.37
1	A6	167	VAL	N-CA-C	6.95	114.78	107.76
1	AG	207	CYS	N-CA-C	6.95	125.61	110.80
1	AW	207	CYS	N-CA-C	6.95	125.60	110.80
1	Ae	207	CYS	N-CA-C	6.95	125.61	110.80
2	Co	204	GLY	CA-C-N	6.95	127.51	120.14
2	Co	204	GLY	C-N-CA	6.95	127.51	120.14
3	Dl	208	VAL	N-CA-C	6.95	117.66	107.37
1	A2	207	CYS	N-CA-C	6.95	125.60	110.80
1	A5	207	CYS	N-CA-C	6.95	125.60	110.80
1	AE	167	VAL	N-CA-C	6.95	114.78	107.76
1	Ao	207	CYS	N-CA-C	6.95	125.60	110.80
1	BF	207	CYS	N-CA-C	6.95	125.60	110.80
2	CC	204	GLY	CA-C-N	6.95	127.50	120.14
2	CC	204	GLY	C-N-CA	6.95	127.50	120.14
1	A7	207	CYS	N-CA-C	6.95	125.60	110.80
1	Ac	207	CYS	N-CA-C	6.95	125.60	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Df	208	VAL	N-CA-C	6.95	117.65	107.37
1	A3	207	CYS	N-CA-C	6.95	125.59	110.80
1	A8	207	CYS	N-CA-C	6.95	125.59	110.80
1	AN	207	CYS	N-CA-C	6.95	125.59	110.80
1	AO	207	CYS	N-CA-C	6.95	125.59	110.80
1	Ao	167	VAL	N-CA-C	6.94	114.77	107.76
1	BA	207	CYS	N-CA-C	6.94	125.59	110.80
1	BD	207	CYS	N-CA-C	6.94	125.59	110.80
2	C7	204	GLY	CA-C-N	6.94	127.50	120.14
2	C7	204	GLY	C-N-CA	6.94	127.50	120.14
3	DN	208	VAL	N-CA-C	6.94	117.65	107.37
1	A9	207	CYS	N-CA-C	6.94	125.59	110.80
1	Ad	207	CYS	N-CA-C	6.94	125.59	110.80
1	BB	207	CYS	N-CA-C	6.94	125.59	110.80
2	C6	204	GLY	CA-C-N	6.94	127.50	120.14
2	C6	204	GLY	C-N-CA	6.94	127.50	120.14
2	CL	204	GLY	CA-C-N	6.94	127.50	120.14
2	CL	204	GLY	C-N-CA	6.94	127.50	120.14
3	Do	208	VAL	N-CA-C	6.94	117.65	107.37
1	AM	207	CYS	N-CA-C	6.94	125.58	110.80
1	AX	207	CYS	N-CA-C	6.94	125.58	110.80
1	Ak	207	CYS	N-CA-C	6.94	125.58	110.80
2	Cg	37	SER	N-CA-C	6.94	117.43	108.34
1	AY	207	CYS	N-CA-C	6.94	125.58	110.80
1	AL	207	CYS	N-CA-C	6.94	125.58	110.80
1	AV	207	CYS	N-CA-C	6.94	125.57	110.80
1	AA	207	CYS	N-CA-C	6.93	125.57	110.80
1	AC	207	CYS	N-CA-C	6.93	125.57	110.80
1	AE	207	CYS	N-CA-C	6.93	125.57	110.80
1	AV	167	VAL	N-CA-C	6.93	114.76	107.76
1	AU	207	CYS	N-CA-C	6.93	125.56	110.80
1	AZ	207	CYS	N-CA-C	6.93	125.56	110.80
1	Ai	207	CYS	N-CA-C	6.93	125.57	110.80
1	BE	167	VAL	N-CA-C	6.93	114.76	107.76
3	Dg	208	VAL	N-CA-C	6.93	117.63	107.37
3	Dr	208	VAL	N-CA-C	6.93	117.63	107.37
2	CK	204	GLY	CA-C-N	6.93	127.49	120.14
2	CK	204	GLY	C-N-CA	6.93	127.49	120.14
2	Cb	204	GLY	CA-C-N	6.93	127.48	120.14
2	Cb	204	GLY	C-N-CA	6.93	127.48	120.14
2	Ch	37	SER	N-CA-C	6.93	117.42	108.34
2	C8	204	GLY	CA-C-N	6.93	127.48	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C8	204	GLY	C-N-CA	6.93	127.48	120.14
1	A0	207	CYS	N-CA-C	6.93	125.56	110.80
1	AJ	167	VAL	N-CA-C	6.93	114.76	107.76
1	An	167	VAL	N-CA-C	6.93	114.76	107.76
2	Cs	204	GLY	CA-C-N	6.93	127.48	120.14
2	Cs	204	GLY	C-N-CA	6.93	127.48	120.14
1	A0	167	VAL	N-CA-C	6.92	114.75	107.76
1	AF	167	VAL	N-CA-C	6.92	114.75	107.76
1	BC	207	CYS	N-CA-C	6.92	125.55	110.80
2	CO	37	SER	N-CA-C	6.92	117.41	108.34
1	BC	167	VAL	N-CA-C	6.92	114.75	107.76
1	Am	207	CYS	N-CA-C	6.92	125.54	110.80
2	C4	37	SER	N-CA-C	6.92	117.41	108.34
2	CA	204	GLY	CA-C-N	6.92	127.48	120.14
2	CA	204	GLY	C-N-CA	6.92	127.48	120.14
2	CG	37	SER	N-CA-C	6.92	117.41	108.34
2	Ck	204	GLY	CA-C-N	6.92	127.48	120.14
2	Ck	204	GLY	C-N-CA	6.92	127.48	120.14
1	Ag	207	CYS	N-CA-C	6.92	125.54	110.80
1	BD	167	VAL	N-CA-C	6.92	114.75	107.76
2	CY	37	SER	N-CA-C	6.92	117.40	108.34
1	BI	207	CYS	N-CA-C	6.92	125.53	110.80
2	C1	37	SER	N-CA-C	6.92	117.40	108.34
2	CP	204	GLY	CA-C-N	6.92	127.47	120.14
2	CP	204	GLY	C-N-CA	6.92	127.47	120.14
2	CT	37	SER	N-CA-C	6.92	117.40	108.34
2	Cq	37	SER	N-CA-C	6.92	117.40	108.34
1	AY	167	VAL	N-CA-C	6.92	114.74	107.76
2	Cq	204	GLY	CA-C-N	6.92	127.47	120.14
2	Cq	204	GLY	C-N-CA	6.92	127.47	120.14
2	Cx	37	SER	N-CA-C	6.92	117.40	108.34
1	A1	207	CYS	N-CA-C	6.91	125.53	110.80
1	BH	167	VAL	N-CA-C	6.91	114.74	107.76
2	CA	37	SER	N-CA-C	6.91	117.40	108.34
2	CU	37	SER	N-CA-C	6.91	117.40	108.34
2	Ce	204	GLY	CA-C-N	6.91	127.47	120.14
2	Ce	204	GLY	C-N-CA	6.91	127.47	120.14
3	EB	208	VAL	N-CA-C	6.91	117.60	107.37
1	Ah	207	CYS	N-CA-C	6.91	125.52	110.80
1	BH	207	CYS	N-CA-C	6.91	125.52	110.80
2	CF	37	SER	N-CA-C	6.91	117.39	108.34
1	A2	167	VAL	N-CA-C	6.91	114.74	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AN	167	VAL	N-CA-C	6.91	114.74	107.76
1	AR	167	VAL	N-CA-C	6.91	114.74	107.76
2	Ci	37	SER	N-CA-C	6.91	117.39	108.34
2	Cw	204	GLY	CA-C-N	6.91	127.47	120.14
2	Cw	204	GLY	C-N-CA	6.91	127.47	120.14
1	AX	167	VAL	N-CA-C	6.91	114.74	107.76
1	AZ	167	VAL	N-CA-C	6.91	114.74	107.76
1	BB	167	VAL	N-CA-C	6.91	114.74	107.76
2	C0	204	GLY	CA-C-N	6.91	127.46	120.14
2	C0	204	GLY	C-N-CA	6.91	127.46	120.14
2	CX	37	SER	N-CA-C	6.91	117.39	108.34
2	Ct	204	GLY	CA-C-N	6.91	127.46	120.14
2	Ct	204	GLY	C-N-CA	6.91	127.46	120.14
2	Cx	204	GLY	CA-C-N	6.91	127.46	120.14
2	Cx	204	GLY	C-N-CA	6.91	127.46	120.14
1	AC	167	VAL	N-CA-C	6.91	114.73	107.76
1	AH	167	VAL	N-CA-C	6.91	114.73	107.76
2	C3	204	GLY	CA-C-N	6.91	127.46	120.14
2	C3	204	GLY	C-N-CA	6.91	127.46	120.14
2	CN	204	GLY	CA-C-N	6.91	127.46	120.14
2	CN	204	GLY	C-N-CA	6.91	127.46	120.14
2	CR	37	SER	N-CA-C	6.91	117.39	108.34
1	Ah	167	VAL	N-CA-C	6.90	114.73	107.76
1	Aj	167	VAL	N-CA-C	6.90	114.73	107.76
2	Cu	204	GLY	CA-C-N	6.90	127.46	120.14
2	Cu	204	GLY	C-N-CA	6.90	127.46	120.14
1	AD	167	VAL	N-CA-C	6.90	114.73	107.76
1	AH	207	CYS	N-CA-C	6.90	125.50	110.80
1	AO	167	VAL	N-CA-C	6.90	114.73	107.76
2	Ca	204	GLY	CA-C-N	6.90	127.45	120.14
2	Ca	204	GLY	C-N-CA	6.90	127.45	120.14
2	Cf	204	GLY	CA-C-N	6.90	127.45	120.14
2	Cf	204	GLY	C-N-CA	6.90	127.45	120.14
1	BF	167	VAL	N-CA-C	6.90	114.73	107.76
1	AQ	167	VAL	N-CA-C	6.90	114.73	107.76
2	CB	204	GLY	CA-C-N	6.90	127.45	120.14
2	CB	204	GLY	C-N-CA	6.90	127.45	120.14
2	Cl	37	SER	N-CA-C	6.90	117.38	108.34
1	A9	167	VAL	N-CA-C	6.90	114.72	107.76
2	C9	37	SER	N-CA-C	6.90	117.37	108.34
3	Dd	177	VAL	N-CA-C	6.90	121.70	113.22
1	BA	167	VAL	N-CA-C	6.89	114.72	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BI	167	VAL	N-CA-C	6.89	114.72	107.76
2	CM	37	SER	N-CA-C	6.89	117.37	108.34
1	A8	167	VAL	N-CA-C	6.89	114.72	107.76
1	AU	167	VAL	N-CA-C	6.89	114.72	107.76
2	C4	204	GLY	CA-C-N	6.89	127.45	120.14
2	C4	204	GLY	C-N-CA	6.89	127.45	120.14
2	CK	37	SER	N-CA-C	6.89	117.37	108.34
1	A7	167	VAL	N-CA-C	6.89	114.72	107.76
2	CW	37	SER	N-CA-C	6.89	117.37	108.34
3	EA	177	VAL	N-CA-C	6.89	121.70	113.22
1	AI	167	VAL	N-CA-C	6.89	114.72	107.76
1	AS	167	VAL	N-CA-C	6.89	114.72	107.76
1	AT	167	VAL	N-CA-C	6.89	114.72	107.76
1	Af	167	VAL	N-CA-C	6.89	114.72	107.76
2	C1	204	GLY	CA-C-N	6.89	127.44	120.14
2	C1	204	GLY	C-N-CA	6.89	127.44	120.14
2	C5	204	GLY	CA-C-N	6.89	127.44	120.14
2	C5	204	GLY	C-N-CA	6.89	127.44	120.14
2	CC	37	SER	N-CA-C	6.89	117.36	108.34
2	Cn	37	SER	N-CA-C	6.89	117.36	108.34
1	AG	167	VAL	N-CA-C	6.89	114.72	107.76
2	CJ	37	SER	N-CA-C	6.89	117.36	108.34
2	CJ	204	GLY	CA-C-N	6.89	127.44	120.14
2	CJ	204	GLY	C-N-CA	6.89	127.44	120.14
2	CS	204	GLY	CA-C-N	6.89	127.44	120.14
2	CS	204	GLY	C-N-CA	6.89	127.44	120.14
2	C2	204	GLY	CA-C-N	6.89	127.44	120.14
2	C2	204	GLY	C-N-CA	6.89	127.44	120.14
2	CD	204	GLY	CA-C-N	6.89	127.44	120.14
2	CD	204	GLY	C-N-CA	6.89	127.44	120.14
2	CF	204	GLY	CA-C-N	6.89	127.44	120.14
2	CF	204	GLY	C-N-CA	6.89	127.44	120.14
2	Cm	204	GLY	CA-C-N	6.89	127.44	120.14
2	Cm	204	GLY	C-N-CA	6.89	127.44	120.14
2	Ct	37	SER	N-CA-C	6.89	117.36	108.34
2	Cu	37	SER	N-CA-C	6.89	117.36	108.34
1	AA	167	VAL	N-CA-C	6.88	114.71	107.76
1	AK	167	VAL	N-CA-C	6.88	114.71	107.76
3	Dq	177	VAL	N-CA-C	6.88	121.69	113.22
2	CD	37	SER	N-CA-C	6.88	117.36	108.34
2	CE	37	SER	N-CA-C	6.88	117.36	108.34
2	CH	37	SER	N-CA-C	6.88	117.36	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CV	204	GLY	CA-C-N	6.88	127.44	120.14
2	CV	204	GLY	C-N-CA	6.88	127.44	120.14
2	Cc	204	GLY	CA-C-N	6.88	127.43	120.14
2	Cc	204	GLY	C-N-CA	6.88	127.43	120.14
2	Cg	204	GLY	CA-C-N	6.88	127.44	120.14
2	Cg	204	GLY	C-N-CA	6.88	127.44	120.14
3	DH	177	VAL	N-CA-C	6.88	121.68	113.22
2	C9	204	GLY	CA-C-N	6.88	127.43	120.14
2	C9	204	GLY	C-N-CA	6.88	127.43	120.14
2	CN	37	SER	N-CA-C	6.88	117.35	108.34
2	CZ	204	GLY	CA-C-N	6.88	127.43	120.14
2	CZ	204	GLY	C-N-CA	6.88	127.43	120.14
1	AL	167	VAL	N-CA-C	6.88	114.71	107.76
1	Al	167	VAL	N-CA-C	6.88	114.71	107.76
2	Cm	37	SER	N-CA-C	6.88	117.35	108.34
2	C2	37	SER	N-CA-C	6.88	117.35	108.34
2	Ce	37	SER	N-CA-C	6.88	117.35	108.34
2	Ch	204	GLY	CA-C-N	6.88	127.43	120.14
2	Ch	204	GLY	C-N-CA	6.88	127.43	120.14
2	Cr	37	SER	N-CA-C	6.88	117.35	108.34
3	D8	177	VAL	N-CA-C	6.88	121.68	113.22
2	CY	204	GLY	CA-C-N	6.87	127.43	120.14
2	CY	204	GLY	C-N-CA	6.87	127.43	120.14
2	Cp	37	SER	N-CA-C	6.87	117.34	108.34
3	DB	177	VAL	N-CA-C	6.87	121.67	113.22
1	AM	167	VAL	N-CA-C	6.87	114.70	107.76
2	C6	37	SER	N-CA-C	6.87	117.34	108.34
2	CI	204	GLY	CA-C-N	6.87	127.42	120.14
2	CI	204	GLY	C-N-CA	6.87	127.42	120.14
2	CO	204	GLY	CA-C-N	6.87	127.42	120.14
2	CO	204	GLY	C-N-CA	6.87	127.42	120.14
2	CV	37	SER	N-CA-C	6.87	117.34	108.34
3	D6	177	VAL	N-CA-C	6.87	121.67	113.22
1	Ad	167	VAL	N-CA-C	6.87	114.70	107.76
1	AP	167	VAL	N-CA-C	6.87	114.70	107.76
2	C0	37	SER	N-CA-C	6.87	117.34	108.34
3	Dp	177	VAL	N-CA-C	6.87	121.67	113.22
2	C7	37	SER	N-CA-C	6.87	117.33	108.34
2	CL	37	SER	N-CA-C	6.87	117.33	108.34
2	CP	37	SER	N-CA-C	6.87	117.33	108.34
2	CW	204	GLY	CA-C-N	6.87	127.42	120.14
2	CW	204	GLY	C-N-CA	6.87	127.42	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cn	204	GLY	CA-C-N	6.87	127.42	120.14
2	Cn	204	GLY	C-N-CA	6.87	127.42	120.14
3	Dk	177	VAL	N-CA-C	6.87	121.66	113.22
1	A1	167	VAL	N-CA-C	6.86	114.69	107.76
1	Ae	167	VAL	N-CA-C	6.86	114.69	107.76
1	Ai	167	VAL	N-CA-C	6.86	114.69	107.76
2	CU	204	GLY	CA-C-N	6.86	127.42	120.14
2	CU	204	GLY	C-N-CA	6.86	127.42	120.14
2	Cj	204	GLY	CA-C-N	6.86	127.41	120.14
2	Cj	204	GLY	C-N-CA	6.86	127.41	120.14
3	D2	177	VAL	N-CA-C	6.86	121.66	113.22
1	Ab	167	VAL	N-CA-C	6.86	114.69	107.76
2	C3	37	SER	N-CA-C	6.86	117.33	108.34
2	Ca	37	SER	N-CA-C	6.86	117.33	108.34
3	D5	177	VAL	N-CA-C	6.86	121.66	113.22
3	DM	93	LEU	N-CA-C	-6.86	103.42	111.03
3	EB	177	VAL	N-CA-C	6.86	121.66	113.22
1	AW	167	VAL	N-CA-C	6.86	114.69	107.76
2	CB	37	SER	N-CA-C	6.86	117.33	108.34
2	CR	204	GLY	CA-C-N	6.86	127.41	120.14
2	CR	204	GLY	C-N-CA	6.86	127.41	120.14
2	Cc	37	SER	N-CA-C	6.86	117.32	108.34
2	Co	37	SER	N-CA-C	6.86	117.33	108.34
3	DL	177	VAL	N-CA-C	6.86	121.65	113.22
3	DM	32	PRO	CA-C-N	6.86	127.26	119.92
3	DM	32	PRO	C-N-CA	6.86	127.26	119.92
2	CS	37	SER	N-CA-C	6.86	117.32	108.34
2	Ci	204	GLY	CA-C-N	6.86	127.41	120.14
2	Ci	204	GLY	C-N-CA	6.86	127.41	120.14
3	DP	177	VAL	N-CA-C	6.85	121.65	113.22
2	Ck	37	SER	N-CA-C	6.85	117.32	108.34
2	Cs	37	SER	N-CA-C	6.85	117.32	108.34
3	D3	177	VAL	N-CA-C	6.85	121.65	113.22
3	DD	177	VAL	N-CA-C	6.85	121.65	113.22
3	DE	177	VAL	N-CA-C	6.85	121.65	113.22
3	DZ	177	VAL	N-CA-C	6.85	121.65	113.22
2	Cd	37	SER	N-CA-C	6.85	117.31	108.34
3	DR	177	VAL	N-CA-C	6.85	121.65	113.22
2	C8	37	SER	N-CA-C	6.85	117.31	108.34
2	CI	37	SER	N-CA-C	6.85	117.31	108.34
2	CZ	37	SER	N-CA-C	6.85	117.31	108.34
2	Cv	204	GLY	CA-C-N	6.85	127.40	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cv	204	GLY	C-N-CA	6.85	127.40	120.14
3	DC	177	VAL	N-CA-C	6.85	121.64	113.22
3	EE	180	SER	N-CA-C	-6.85	104.12	113.30
2	Cl	204	GLY	CA-C-N	6.85	127.40	120.14
2	Cl	204	GLY	C-N-CA	6.85	127.40	120.14
3	D1	177	VAL	N-CA-C	6.85	121.64	113.22
2	Cb	37	SER	N-CA-C	6.85	117.31	108.34
1	A4	167	VAL	N-CA-C	6.84	114.67	107.76
2	Cv	37	SER	N-CA-C	6.84	117.31	108.34
3	D7	177	VAL	N-CA-C	6.84	121.64	113.22
3	DI	177	VAL	N-CA-C	6.84	121.64	113.22
3	DI	177	VAL	N-CA-C	6.84	121.64	113.22
2	Cj	37	SER	N-CA-C	6.84	117.30	108.34
2	Cw	37	SER	N-CA-C	6.84	117.30	108.34
3	DO	177	VAL	N-CA-C	6.84	121.64	113.22
3	Dn	177	VAL	N-CA-C	6.84	121.64	113.22
3	Dn	180	SER	N-CA-C	-6.84	104.13	113.30
3	De	177	VAL	N-CA-C	6.84	121.64	113.22
1	A3	167	VAL	N-CA-C	6.84	114.67	107.76
1	AB	167	VAL	N-CA-C	6.84	114.67	107.76
1	Ak	167	VAL	N-CA-C	6.84	114.67	107.76
2	C5	37	SER	N-CA-C	6.84	117.30	108.34
2	CQ	37	SER	N-CA-C	6.84	117.30	108.34
2	Cp	204	GLY	CA-C-N	6.84	127.39	120.14
2	Cp	204	GLY	C-N-CA	6.84	127.39	120.14
3	D3	180	SER	N-CA-C	-6.84	104.13	113.30
2	CE	204	GLY	CA-C-N	6.84	127.39	120.14
2	CE	204	GLY	C-N-CA	6.84	127.39	120.14
2	Cd	204	GLY	CA-C-N	6.84	127.39	120.14
2	Cd	204	GLY	C-N-CA	6.84	127.39	120.14
1	A5	167	VAL	N-CA-C	6.84	114.66	107.76
2	Cf	37	SER	N-CA-C	6.84	117.30	108.34
3	D1	180	SER	N-CA-C	-6.84	104.14	113.30
3	DA	177	VAL	N-CA-C	6.84	121.63	113.22
3	Dj	180	SER	N-CA-C	-6.83	104.14	113.30
3	EC	177	VAL	N-CA-C	6.83	121.62	113.22
3	ED	177	VAL	N-CA-C	6.83	121.63	113.22
3	ED	180	SER	N-CA-C	-6.83	104.14	113.30
3	D4	180	SER	N-CA-C	-6.83	104.14	113.30
3	DV	177	VAL	N-CA-C	6.83	121.62	113.22
3	Db	177	VAL	N-CA-C	6.83	121.62	113.22
3	Dg	177	VAL	N-CA-C	6.83	121.62	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Dr	177	VAL	N-CA-C	6.83	121.62	113.22
3	Ds	177	VAL	N-CA-C	6.83	121.62	113.22
1	Aa	167	VAL	N-CA-C	6.83	114.66	107.76
1	Ag	167	VAL	N-CA-C	6.83	114.66	107.76
3	DU	177	VAL	N-CA-C	6.83	121.62	113.22
3	DZ	180	SER	N-CA-C	-6.83	104.15	113.30
3	Dj	177	VAL	N-CA-C	6.83	121.62	113.22
3	DC	180	SER	N-CA-C	-6.83	104.16	113.30
3	DK	177	VAL	N-CA-C	6.83	121.61	113.22
3	DY	93	LEU	N-CA-C	-6.83	103.45	111.03
3	D0	180	SER	N-CA-C	-6.82	104.16	113.30
3	DM	177	VAL	N-CA-C	6.82	121.61	113.22
3	Dh	177	VAL	N-CA-C	6.82	121.61	113.22
3	Di	177	VAL	N-CA-C	6.82	121.61	113.22
3	D0	177	VAL	N-CA-C	6.82	121.61	113.22
3	DG	177	VAL	N-CA-C	6.82	121.61	113.22
3	DJ	177	VAL	N-CA-C	6.82	121.61	113.22
3	DI	32	PRO	CA-C-N	6.82	127.22	119.92
3	DI	32	PRO	C-N-CA	6.82	127.22	119.92
2	CX	204	GLY	CA-C-N	6.82	127.37	120.14
2	CX	204	GLY	C-N-CA	6.82	127.37	120.14
3	DP	180	SER	N-CA-C	-6.82	104.16	113.30
3	DS	180	SER	N-CA-C	-6.82	104.16	113.30
2	CH	204	GLY	CA-C-N	6.82	127.36	120.14
2	CH	204	GLY	C-N-CA	6.82	127.36	120.14
3	D0	93	LEU	N-CA-C	-6.82	103.47	111.03
3	DF	177	VAL	N-CA-C	6.82	121.60	113.22
3	DI	32	PRO	CA-C-N	6.82	127.21	119.92
3	DI	32	PRO	C-N-CA	6.82	127.21	119.92
3	DM	180	SER	N-CA-C	-6.82	104.17	113.30
3	DQ	180	SER	N-CA-C	-6.82	104.17	113.30
3	DX	177	VAL	N-CA-C	6.82	121.60	113.22
3	Db	180	SER	N-CA-C	-6.82	104.17	113.30
3	D4	177	VAL	N-CA-C	6.81	121.60	113.22
3	DW	177	VAL	N-CA-C	6.81	121.60	113.22
2	CM	204	GLY	CA-C-N	6.81	127.36	120.14
2	CM	204	GLY	C-N-CA	6.81	127.36	120.14
3	DN	180	SER	N-CA-C	-6.81	104.17	113.30
3	DU	180	SER	N-CA-C	-6.81	104.17	113.30
3	Di	180	SER	N-CA-C	-6.81	104.17	113.30
3	Do	177	VAL	N-CA-C	6.81	121.60	113.22
3	DT	180	SER	N-CA-C	-6.81	104.17	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DW	180	SER	N-CA-C	-6.81	104.17	113.30
3	EE	177	VAL	N-CA-C	6.81	121.60	113.22
3	D2	180	SER	N-CA-C	-6.81	104.18	113.30
3	DC	93	LEU	N-CA-C	-6.81	103.47	111.03
3	DD	93	LEU	N-CA-C	-6.81	103.47	111.03
3	DH	180	SER	N-CA-C	-6.81	104.18	113.30
3	DK	180	SER	N-CA-C	-6.81	104.17	113.30
3	DT	177	VAL	N-CA-C	6.81	121.60	113.22
3	Dc	93	LEU	N-CA-C	-6.81	103.47	111.03
3	Df	180	SER	N-CA-C	-6.81	104.17	113.30
1	Ac	167	VAL	N-CA-C	6.81	114.64	107.76
3	DD	180	SER	N-CA-C	-6.81	104.18	113.30
3	DF	180	SER	N-CA-C	-6.81	104.18	113.30
3	DQ	177	VAL	N-CA-C	6.81	121.59	113.22
3	DR	180	SER	N-CA-C	-6.81	104.18	113.30
3	DY	180	SER	N-CA-C	-6.81	104.18	113.30
3	Dc	177	VAL	N-CA-C	6.81	121.59	113.22
3	Dj	93	LEU	N-CA-C	-6.81	103.47	111.03
3	DT	93	LEU	N-CA-C	-6.81	103.47	111.03
3	Dn	93	LEU	N-CA-C	-6.81	103.47	111.03
3	Do	180	SER	N-CA-C	-6.80	104.18	113.30
3	DN	177	VAL	N-CA-C	6.80	121.59	113.22
3	EB	180	SER	N-CA-C	-6.80	104.18	113.30
3	DA	93	LEU	N-CA-C	-6.80	103.48	111.03
3	DA	180	SER	N-CA-C	-6.80	104.19	113.30
3	DV	93	LEU	N-CA-C	-6.80	103.48	111.03
3	Dd	180	SER	N-CA-C	-6.80	104.19	113.30
3	Dl	93	LEU	N-CA-C	-6.80	103.48	111.03
3	D6	32	PRO	CA-C-N	6.80	127.20	119.92
3	D6	32	PRO	C-N-CA	6.80	127.20	119.92
3	D9	93	LEU	N-CA-C	-6.80	103.48	111.03
3	DI	93	LEU	N-CA-C	-6.80	103.48	111.03
3	DV	180	SER	N-CA-C	-6.80	104.19	113.30
3	Dh	180	SER	N-CA-C	-6.80	104.19	113.30
3	Dm	177	VAL	N-CA-C	6.80	121.58	113.22
3	DB	180	SER	N-CA-C	-6.80	104.19	113.30
3	Df	177	VAL	N-CA-C	6.80	121.58	113.22
3	Dm	180	SER	N-CA-C	-6.80	104.19	113.30
3	D5	93	LEU	N-CA-C	-6.80	103.49	111.03
3	DG	180	SER	N-CA-C	-6.80	104.19	113.30
3	DX	180	SER	N-CA-C	-6.80	104.19	113.30
3	Df	32	PRO	CA-C-N	6.80	127.19	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Df	32	PRO	C-N-CA	6.80	127.19	119.92
3	Dp	180	SER	N-CA-C	-6.80	104.19	113.30
3	EB	93	LEU	N-CA-C	-6.80	103.48	111.03
3	EE	93	LEU	N-CA-C	-6.80	103.48	111.03
3	D6	180	SER	N-CA-C	-6.79	104.19	113.30
3	DJ	32	PRO	CA-C-N	6.79	127.19	119.92
3	DJ	32	PRO	C-N-CA	6.79	127.19	119.92
3	DU	93	LEU	N-CA-C	-6.79	103.49	111.03
3	Da	177	VAL	N-CA-C	6.79	121.58	113.22
3	Da	180	SER	N-CA-C	-6.79	104.20	113.30
3	Dr	180	SER	N-CA-C	-6.79	104.20	113.30
3	D5	32	PRO	CA-C-N	6.79	127.19	119.92
3	D5	32	PRO	C-N-CA	6.79	127.19	119.92
3	DL	93	LEU	N-CA-C	-6.79	103.49	111.03
3	DB	93	LEU	N-CA-C	-6.79	103.49	111.03
3	DJ	180	SER	N-CA-C	-6.79	104.20	113.30
3	DS	177	VAL	N-CA-C	6.79	121.57	113.22
3	Dc	180	SER	N-CA-C	-6.79	104.20	113.30
3	EC	180	SER	N-CA-C	-6.79	104.20	113.30
3	ED	93	LEU	N-CA-C	-6.79	103.49	111.03
3	DE	180	SER	N-CA-C	-6.79	104.20	113.30
3	DN	93	LEU	N-CA-C	-6.79	103.50	111.03
3	Dq	32	PRO	CA-C-N	6.79	127.18	119.92
3	Dq	32	PRO	C-N-CA	6.79	127.18	119.92
3	D6	93	LEU	N-CA-C	-6.79	103.50	111.03
3	DY	177	VAL	N-CA-C	6.79	121.57	113.22
3	D2	93	LEU	N-CA-C	-6.78	103.50	111.03
3	DE	93	LEU	N-CA-C	-6.78	103.50	111.03
3	DP	32	PRO	CA-C-N	6.78	127.18	119.92
3	DP	32	PRO	C-N-CA	6.78	127.18	119.92
3	D9	180	SER	N-CA-C	-6.78	104.21	113.30
3	Dd	93	LEU	N-CA-C	-6.78	103.50	111.03
3	DO	180	SER	N-CA-C	-6.78	104.22	113.30
3	Dq	93	LEU	N-CA-C	-6.78	103.50	111.03
3	D7	32	PRO	CA-C-N	6.78	127.17	119.92
3	D7	32	PRO	C-N-CA	6.78	127.17	119.92
3	DG	93	LEU	N-CA-C	-6.78	103.50	111.03
3	DN	32	PRO	CA-C-N	6.78	127.17	119.92
3	DN	32	PRO	C-N-CA	6.78	127.17	119.92
3	D3	93	LEU	N-CA-C	-6.78	103.51	111.03
3	D8	32	PRO	CA-C-N	6.78	127.17	119.92
3	D8	32	PRO	C-N-CA	6.78	127.17	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DQ	93	LEU	N-CA-C	-6.78	103.51	111.03
3	Db	93	LEU	N-CA-C	-6.78	103.51	111.03
3	De	180	SER	N-CA-C	-6.78	104.22	113.30
3	EC	93	LEU	N-CA-C	-6.78	103.51	111.03
1	AT	101	PHE	N-CA-C	-6.78	99.55	110.32
3	DP	93	LEU	N-CA-C	-6.78	103.51	111.03
3	DS	93	LEU	N-CA-C	-6.78	103.51	111.03
3	DW	93	LEU	N-CA-C	-6.78	103.51	111.03
3	Dh	32	PRO	CA-C-N	6.78	127.17	119.92
3	Dh	32	PRO	C-N-CA	6.78	127.17	119.92
3	Dm	93	LEU	N-CA-C	-6.78	103.51	111.03
3	D9	177	VAL	N-CA-C	6.77	121.55	113.22
3	Da	93	LEU	N-CA-C	-6.77	103.51	111.03
3	Dr	32	PRO	CA-C-N	6.77	127.17	119.92
3	Dr	32	PRO	C-N-CA	6.77	127.17	119.92
3	Df	93	LEU	N-CA-C	-6.77	103.51	111.03
3	DI	180	SER	N-CA-C	-6.77	104.23	113.30
3	Dq	180	SER	N-CA-C	-6.77	104.22	113.30
3	EA	93	LEU	N-CA-C	-6.77	103.51	111.03
3	Dd	32	PRO	CA-C-N	6.77	127.17	119.92
3	Dd	32	PRO	C-N-CA	6.77	127.17	119.92
1	AH	101	PHE	N-CA-C	-6.77	99.56	110.32
3	DI	180	SER	N-CA-C	-6.77	104.23	113.30
3	Di	93	LEU	N-CA-C	-6.77	103.52	111.03
3	Dp	93	LEU	N-CA-C	-6.77	103.52	111.03
3	DC	32	PRO	CA-C-N	6.77	127.16	119.92
3	DC	32	PRO	C-N-CA	6.77	127.16	119.92
3	DL	180	SER	N-CA-C	-6.77	104.23	113.30
1	AZ	101	PHE	N-CA-C	-6.77	99.56	110.32
3	DJ	93	LEU	N-CA-C	-6.77	103.52	111.03
3	De	93	LEU	N-CA-C	-6.77	103.52	111.03
1	AM	101	PHE	N-CA-C	-6.76	99.56	110.32
3	DX	93	LEU	N-CA-C	-6.76	103.52	111.03
3	D8	180	SER	N-CA-C	-6.76	104.24	113.30
3	DF	93	LEU	N-CA-C	-6.76	103.52	111.03
1	AU	101	PHE	N-CA-C	-6.76	99.57	110.32
1	AV	101	PHE	N-CA-C	-6.76	99.57	110.32
3	DH	93	LEU	N-CA-C	-6.76	103.52	111.03
1	AA	101	PHE	N-CA-C	-6.76	99.57	110.32
1	BI	101	PHE	N-CA-C	-6.76	99.57	110.32
3	DO	93	LEU	N-CA-C	-6.76	103.53	111.03
3	Dk	180	SER	N-CA-C	-6.76	104.24	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	ED	32	PRO	CA-C-N	6.76	127.15	119.92
3	ED	32	PRO	C-N-CA	6.76	127.15	119.92
1	Ad	101	PHE	N-CA-C	-6.76	99.57	110.32
3	D5	180	SER	N-CA-C	-6.76	104.24	113.30
3	Ds	180	SER	N-CA-C	-6.76	104.24	113.30
1	A0	101	PHE	N-CA-C	-6.76	99.58	110.32
1	A8	101	PHE	N-CA-C	-6.76	99.58	110.32
1	Ah	101	PHE	N-CA-C	-6.76	99.58	110.32
3	D8	93	LEU	N-CA-C	-6.76	103.53	111.03
3	DS	32	PRO	CA-C-N	6.76	127.15	119.92
3	DS	32	PRO	C-N-CA	6.76	127.15	119.92
3	Dh	93	LEU	N-CA-C	-6.76	103.53	111.03
3	Do	93	LEU	N-CA-C	-6.76	103.53	111.03
1	AY	101	PHE	N-CA-C	-6.75	99.58	110.32
3	D7	180	SER	N-CA-C	-6.75	104.25	113.30
3	Di	32	PRO	CA-C-N	6.75	127.15	119.92
3	Di	32	PRO	C-N-CA	6.75	127.15	119.92
1	AW	101	PHE	N-CA-C	-6.75	99.58	110.32
1	Aa	101	PHE	N-CA-C	-6.75	99.58	110.32
3	D4	93	LEU	N-CA-C	-6.75	103.53	111.03
3	DK	32	PRO	CA-C-N	6.75	127.15	119.92
3	DK	32	PRO	C-N-CA	6.75	127.15	119.92
1	AI	101	PHE	N-CA-C	-6.75	99.58	110.32
1	BA	101	PHE	N-CA-C	-6.75	99.59	110.32
1	BC	101	PHE	N-CA-C	-6.75	99.59	110.32
3	Dg	180	SER	N-CA-C	-6.75	104.25	113.30
3	EA	180	SER	N-CA-C	-6.75	104.26	113.30
1	AR	101	PHE	N-CA-C	-6.75	99.59	110.32
1	A5	101	PHE	N-CA-C	-6.75	99.59	110.32
3	DL	32	PRO	CA-C-N	6.75	127.14	119.92
3	DL	32	PRO	C-N-CA	6.75	127.14	119.92
3	Do	32	PRO	CA-C-N	6.75	127.14	119.92
3	Do	32	PRO	C-N-CA	6.75	127.14	119.92
3	Ds	32	PRO	CA-C-N	6.75	127.14	119.92
3	Ds	32	PRO	C-N-CA	6.75	127.14	119.92
3	Ds	93	LEU	N-CA-C	-6.75	103.54	111.03
1	Al	101	PHE	N-CA-C	-6.75	99.60	110.32
1	Ae	101	PHE	N-CA-C	-6.74	99.60	110.32
3	DH	32	PRO	CA-C-N	6.74	127.14	119.92
3	DH	32	PRO	C-N-CA	6.74	127.14	119.92
3	DX	119	LYS	CB-CG-CD	6.74	126.81	111.30
3	Db	32	PRO	CA-C-N	6.74	127.14	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Db	32	PRO	C-N-CA	6.74	127.14	119.92
3	Dg	32	PRO	CA-C-N	6.74	127.14	119.92
3	Dg	32	PRO	C-N-CA	6.74	127.14	119.92
1	BH	101	PHE	N-CA-C	-6.74	99.60	110.32
1	A3	101	PHE	N-CA-C	-6.74	99.60	110.32
1	AX	101	PHE	N-CA-C	-6.74	99.60	110.32
3	DW	32	PRO	CA-C-N	6.74	127.13	119.92
3	DW	32	PRO	C-N-CA	6.74	127.13	119.92
1	A6	101	PHE	N-CA-C	-6.74	99.61	110.32
3	D0	32	PRO	CA-C-N	6.74	127.13	119.92
3	D0	32	PRO	C-N-CA	6.74	127.13	119.92
3	DD	32	PRO	CA-C-N	6.74	127.13	119.92
3	DD	32	PRO	C-N-CA	6.74	127.13	119.92
3	EE	32	PRO	CA-C-N	6.74	127.13	119.92
3	EE	32	PRO	C-N-CA	6.74	127.13	119.92
1	A9	101	PHE	N-CA-C	-6.74	99.61	110.32
3	DX	32	PRO	CA-C-N	6.74	127.13	119.92
3	DX	32	PRO	C-N-CA	6.74	127.13	119.92
1	Aj	101	PHE	N-CA-C	-6.74	99.61	110.32
1	An	101	PHE	N-CA-C	-6.74	99.61	110.32
3	DB	32	PRO	CA-C-N	6.74	127.13	119.92
3	DB	32	PRO	C-N-CA	6.74	127.13	119.92
3	DO	119	LYS	CB-CG-CD	6.74	126.79	111.30
3	DV	32	PRO	CA-C-N	6.74	127.13	119.92
3	DV	32	PRO	C-N-CA	6.74	127.13	119.92
3	Dg	93	LEU	N-CA-C	-6.74	103.55	111.03
3	Dr	93	LEU	N-CA-C	-6.74	103.55	111.03
1	A4	101	PHE	N-CA-C	-6.73	99.61	110.32
1	AB	101	PHE	N-CA-C	-6.73	99.61	110.32
1	AE	101	PHE	N-CA-C	-6.73	99.61	110.32
3	DA	32	PRO	CA-C-N	6.73	127.13	119.92
3	DA	32	PRO	C-N-CA	6.73	127.13	119.92
3	DG	119	LYS	CB-CG-CD	6.73	126.79	111.30
3	DZ	93	LEU	N-CA-C	-6.73	103.56	111.03
3	Da	32	PRO	CA-C-N	6.73	127.12	119.92
3	Da	32	PRO	C-N-CA	6.73	127.12	119.92
1	A7	101	PHE	N-CA-C	-6.73	99.61	110.32
1	Ab	101	PHE	N-CA-C	-6.73	99.61	110.32
3	D0	119	LYS	CB-CG-CD	6.73	126.79	111.30
3	DQ	32	PRO	CA-C-N	6.73	127.12	119.92
3	DQ	32	PRO	C-N-CA	6.73	127.12	119.92
3	Dk	32	PRO	CA-C-N	6.73	127.12	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Dk	32	PRO	C-N-CA	6.73	127.12	119.92
1	AL	101	PHE	N-CA-C	-6.73	99.62	110.32
1	AP	101	PHE	N-CA-C	-6.73	99.62	110.32
3	DF	32	PRO	CA-C-N	6.73	127.12	119.92
3	DF	32	PRO	C-N-CA	6.73	127.12	119.92
3	Db	119	LYS	CB-CG-CD	6.73	126.78	111.30
1	A2	101	PHE	N-CA-C	-6.73	99.62	110.32
3	D1	93	LEU	N-CA-C	-6.73	103.56	111.03
1	AF	101	PHE	N-CA-C	-6.73	99.62	110.32
1	AG	101	PHE	N-CA-C	-6.73	99.62	110.32
1	AQ	101	PHE	N-CA-C	-6.73	99.62	110.32
1	Am	101	PHE	N-CA-C	-6.73	99.62	110.32
3	D4	32	PRO	CA-C-N	6.73	127.12	119.92
3	D4	32	PRO	C-N-CA	6.73	127.12	119.92
3	Dp	119	LYS	CB-CG-CD	6.73	126.77	111.30
3	Dq	119	LYS	CB-CG-CD	6.73	126.77	111.30
1	AC	101	PHE	N-CA-C	-6.73	99.63	110.32
1	AD	101	PHE	N-CA-C	-6.72	99.63	110.32
1	BG	101	PHE	N-CA-C	-6.72	99.63	110.32
3	D1	32	PRO	CA-C-N	6.72	127.12	119.92
3	D1	32	PRO	C-N-CA	6.72	127.12	119.92
3	DG	32	PRO	CA-C-N	6.72	127.11	119.92
3	DG	32	PRO	C-N-CA	6.72	127.11	119.92
3	EB	32	PRO	CA-C-N	6.72	127.12	119.92
3	EB	32	PRO	C-N-CA	6.72	127.12	119.92
1	Ag	101	PHE	N-CA-C	-6.72	99.63	110.32
1	Ao	101	PHE	N-CA-C	-6.72	99.63	110.32
3	DS	119	LYS	CB-CG-CD	6.72	126.76	111.30
3	Dj	119	LYS	CB-CG-CD	6.72	126.76	111.30
3	Dk	93	LEU	N-CA-C	-6.72	103.57	111.03
3	D5	119	LYS	CB-CG-CD	6.72	126.76	111.30
1	AK	101	PHE	N-CA-C	-6.72	99.64	110.32
1	BB	101	PHE	N-CA-C	-6.72	99.64	110.32
3	DE	32	PRO	CA-C-N	6.72	127.11	119.92
3	DE	32	PRO	C-N-CA	6.72	127.11	119.92
3	DP	119	LYS	CB-CG-CD	6.72	126.75	111.30
3	DR	168	ALA	N-CA-C	6.72	119.68	108.73
3	DU	32	PRO	CA-C-N	6.72	127.11	119.92
3	DU	32	PRO	C-N-CA	6.72	127.11	119.92
3	De	119	LYS	CB-CG-CD	6.72	126.75	111.30
3	Do	119	LYS	CB-CG-CD	6.72	126.76	111.30
3	EC	32	PRO	CA-C-N	6.72	127.11	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	EC	32	PRO	C-N-CA	6.72	127.11	119.92
1	A1	101	PHE	N-CA-C	-6.72	99.64	110.32
3	D4	119	LYS	CB-CG-CD	6.72	126.75	111.30
3	DJ	119	LYS	CB-CG-CD	6.72	126.75	111.30
3	Dk	119	LYS	CB-CG-CD	6.72	126.75	111.30
1	AO	101	PHE	N-CA-C	-6.72	99.64	110.32
1	Ak	101	PHE	N-CA-C	-6.72	99.64	110.32
3	D2	32	PRO	CA-C-N	6.72	127.11	119.92
3	D2	32	PRO	C-N-CA	6.72	127.11	119.92
3	DC	119	LYS	CB-CG-CD	6.72	126.75	111.30
3	DQ	119	LYS	CB-CG-CD	6.72	126.75	111.30
1	AS	101	PHE	N-CA-C	-6.71	99.64	110.32
1	BD	101	PHE	N-CA-C	-6.71	99.64	110.32
1	BF	101	PHE	N-CA-C	-6.71	99.64	110.32
3	D7	93	LEU	N-CA-C	-6.71	103.58	111.03
3	DU	119	LYS	CB-CG-CD	6.71	126.74	111.30
3	EE	119	LYS	CB-CG-CD	6.71	126.74	111.30
2	CR	42	ARG	CA-C-N	6.71	127.30	120.38
2	CR	42	ARG	C-N-CA	6.71	127.30	120.38
3	DR	93	LEU	N-CA-C	-6.71	103.58	111.03
3	Dc	119	LYS	CB-CG-CD	6.71	126.74	111.30
1	AJ	101	PHE	N-CA-C	-6.71	99.65	110.32
3	D6	119	LYS	CB-CG-CD	6.71	126.73	111.30
3	D7	119	LYS	CB-CG-CD	6.71	126.74	111.30
3	DN	119	LYS	CB-CG-CD	6.71	126.74	111.30
3	Df	119	LYS	CB-CG-CD	6.71	126.73	111.30
3	DZ	32	PRO	CA-C-N	6.71	127.10	119.92
3	DZ	32	PRO	C-N-CA	6.71	127.10	119.92
1	Ac	101	PHE	N-CA-C	-6.71	99.65	110.32
1	BE	101	PHE	N-CA-C	-6.71	99.65	110.32
3	DK	93	LEU	N-CA-C	-6.71	103.58	111.03
3	De	32	PRO	CA-C-N	6.71	127.10	119.92
3	De	32	PRO	C-N-CA	6.71	127.10	119.92
1	Af	101	PHE	N-CA-C	-6.71	99.66	110.32
2	CM	109	ASP	N-CA-C	-6.71	97.28	108.75
3	DD	119	LYS	CB-CG-CD	6.71	126.72	111.30
3	Dc	70	ASP	N-CA-C	6.71	118.28	110.97
3	Dn	119	LYS	CB-CG-CD	6.71	126.73	111.30
3	EA	119	LYS	CB-CG-CD	6.71	126.72	111.30
1	Ai	101	PHE	N-CA-C	-6.71	99.66	110.32
2	Cg	25	ASN	N-CA-C	-6.71	99.38	110.17
3	DK	119	LYS	CB-CG-CD	6.71	126.72	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cn	42	ARG	CA-C-N	6.70	127.28	120.38
2	Cn	42	ARG	C-N-CA	6.70	127.28	120.38
3	D2	168	ALA	N-CA-C	6.70	119.66	108.73
3	DE	119	LYS	CB-CG-CD	6.70	126.72	111.30
3	DT	119	LYS	CB-CG-CD	6.70	126.72	111.30
3	Dp	32	PRO	CA-C-N	6.70	127.09	119.92
3	Dp	32	PRO	C-N-CA	6.70	127.09	119.92
3	Df	168	ALA	N-CA-C	6.70	119.66	108.73
3	EA	32	PRO	CA-C-N	6.70	127.09	119.92
3	EA	32	PRO	C-N-CA	6.70	127.09	119.92
3	Dl	119	LYS	CB-CG-CD	6.70	126.71	111.30
3	D3	119	LYS	CB-CG-CD	6.70	126.71	111.30
3	Dj	32	PRO	CA-C-N	6.70	127.09	119.92
3	Dj	32	PRO	C-N-CA	6.70	127.09	119.92
3	DI	119	LYS	CB-CG-CD	6.70	126.71	111.30
3	Dm	119	LYS	CB-CG-CD	6.70	126.71	111.30
3	Ds	119	LYS	CB-CG-CD	6.70	126.71	111.30
3	D3	32	PRO	CA-C-N	6.70	127.09	119.92
3	D3	32	PRO	C-N-CA	6.70	127.09	119.92
3	DA	119	LYS	CB-CG-CD	6.70	126.71	111.30
3	DH	119	LYS	CB-CG-CD	6.70	126.71	111.30
3	DK	168	ALA	N-CA-C	6.70	119.65	108.73
3	DT	32	PRO	CA-C-N	6.70	127.09	119.92
3	DT	32	PRO	C-N-CA	6.70	127.09	119.92
3	DV	119	LYS	CB-CG-CD	6.70	126.71	111.30
3	Dd	119	LYS	CB-CG-CD	6.70	126.71	111.30
3	Dh	119	LYS	CB-CG-CD	6.70	126.71	111.30
3	Dk	168	ALA	N-CA-C	6.70	119.65	108.73
2	C9	25	ASN	N-CA-C	-6.70	99.39	110.17
2	CD	42	ARG	CA-C-N	6.70	127.28	120.38
2	CD	42	ARG	C-N-CA	6.70	127.28	120.38
3	D9	119	LYS	CB-CG-CD	6.70	126.70	111.30
3	DB	119	LYS	CB-CG-CD	6.70	126.70	111.30
3	DW	119	LYS	CB-CG-CD	6.70	126.70	111.30
3	DY	119	LYS	CB-CG-CD	6.70	126.70	111.30
3	Dg	70	ASP	N-CA-C	6.70	118.27	110.97
3	D4	168	ALA	N-CA-C	6.70	119.64	108.73
3	DL	70	ASP	N-CA-C	6.70	118.27	110.97
3	DM	119	LYS	CB-CG-CD	6.70	126.70	111.30
3	DB	168	ALA	N-CA-C	6.69	119.64	108.73
3	DL	119	LYS	CB-CG-CD	6.69	126.70	111.30
3	DY	32	PRO	CA-C-N	6.69	127.08	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DY	32	PRO	C-N-CA	6.69	127.08	119.92
3	DI	168	ALA	N-CA-C	6.69	119.64	108.73
3	ED	119	LYS	CB-CG-CD	6.69	126.70	111.30
2	C2	42	ARG	CA-C-N	6.69	127.27	120.38
2	C2	42	ARG	C-N-CA	6.69	127.27	120.38
3	D2	119	LYS	CB-CG-CD	6.69	126.69	111.30
3	D8	168	ALA	N-CA-C	6.69	119.64	108.73
3	DF	119	LYS	CB-CG-CD	6.69	126.69	111.30
3	DR	119	LYS	CB-CG-CD	6.69	126.69	111.30
3	DZ	119	LYS	CB-CG-CD	6.69	126.69	111.30
3	Dc	32	PRO	CA-C-N	6.69	127.08	119.92
3	Dc	32	PRO	C-N-CA	6.69	127.08	119.92
3	Df	70	ASP	N-CA-C	6.69	118.27	110.97
3	Dg	119	LYS	CB-CG-CD	6.69	126.69	111.30
3	Di	119	LYS	CB-CG-CD	6.69	126.69	111.30
3	Dr	119	LYS	CB-CG-CD	6.69	126.69	111.30
2	CQ	42	ARG	CA-C-N	6.69	127.27	120.38
2	CQ	42	ARG	C-N-CA	6.69	127.27	120.38
2	CU	42	ARG	CA-C-N	6.69	127.27	120.38
2	CU	42	ARG	C-N-CA	6.69	127.27	120.38
2	Cm	109	ASP	N-CA-C	-6.69	97.31	108.75
3	Dg	168	ALA	N-CA-C	6.69	119.64	108.73
3	EC	119	LYS	CB-CG-CD	6.69	126.69	111.30
2	CD	25	ASN	N-CA-C	-6.69	99.40	110.17
2	CT	25	ASN	N-CA-C	-6.69	99.40	110.17
2	C7	25	ASN	N-CA-C	-6.69	99.40	110.17
3	DI	119	LYS	CB-CG-CD	6.69	126.68	111.30
3	DS	70	ASP	N-CA-C	6.69	118.26	110.97
3	Da	119	LYS	CB-CG-CD	6.69	126.68	111.30
3	EB	119	LYS	CB-CG-CD	6.69	126.68	111.30
1	AM	68	TRP	N-CA-C	-6.69	105.66	113.88
2	Cs	109	ASP	N-CA-C	-6.69	97.32	108.75
3	EA	168	ALA	N-CA-C	6.69	119.63	108.73
2	Cb	109	ASP	N-CA-C	-6.68	97.32	108.75
3	DH	70	ASP	N-CA-C	6.68	118.26	110.97
3	DO	32	PRO	CA-C-N	6.68	127.07	119.92
3	DO	32	PRO	C-N-CA	6.68	127.07	119.92
3	Dc	168	ALA	N-CA-C	6.68	119.62	108.73
2	C0	42	ARG	CA-C-N	6.68	127.26	120.38
2	C0	42	ARG	C-N-CA	6.68	127.26	120.38
2	CH	25	ASN	N-CA-C	-6.68	99.41	110.17
2	Ci	42	ARG	CA-C-N	6.68	127.26	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ci	42	ARG	C-N-CA	6.68	127.26	120.38
3	D3	121	LEU	N-CA-C	6.68	119.28	108.32
3	DE	168	ALA	N-CA-C	6.68	119.62	108.73
2	CA	25	ASN	N-CA-C	-6.68	99.41	110.17
2	CM	42	ARG	CA-C-N	6.68	127.26	120.38
2	CM	42	ARG	C-N-CA	6.68	127.26	120.38
2	Ct	25	ASN	N-CA-C	-6.68	99.41	110.17
3	Dp	168	ALA	N-CA-C	6.68	119.62	108.73
2	C0	109	ASP	N-CA-C	-6.68	97.33	108.75
2	CB	42	ARG	CA-C-N	6.68	127.26	120.38
2	CB	42	ARG	C-N-CA	6.68	127.26	120.38
2	Cp	109	ASP	N-CA-C	-6.68	97.33	108.75
3	D9	32	PRO	CA-C-N	6.68	127.07	119.92
3	D9	32	PRO	C-N-CA	6.68	127.07	119.92
3	DR	32	PRO	CA-C-N	6.68	127.07	119.92
3	DR	32	PRO	C-N-CA	6.68	127.07	119.92
2	C1	109	ASP	N-CA-C	-6.68	97.33	108.75
2	CQ	25	ASN	N-CA-C	-6.68	99.42	110.17
3	D4	121	LEU	N-CA-C	6.68	119.27	108.32
3	DP	168	ALA	N-CA-C	6.68	119.62	108.73
2	CP	25	ASN	N-CA-C	-6.68	99.42	110.17
2	CP	109	ASP	N-CA-C	-6.68	97.33	108.75
2	Ca	25	ASN	N-CA-C	-6.68	99.42	110.17
2	Ce	42	ARG	CA-C-N	6.68	127.26	120.38
2	Ce	42	ARG	C-N-CA	6.68	127.26	120.38
2	Ci	25	ASN	N-CA-C	-6.68	99.42	110.17
3	D8	119	LYS	CB-CG-CD	6.68	126.66	111.30
3	DA	168	ALA	N-CA-C	6.68	119.61	108.73
3	DB	121	LEU	N-CA-C	6.68	119.27	108.32
3	DX	121	LEU	N-CA-C	6.68	119.27	108.32
3	DX	168	ALA	N-CA-C	6.68	119.61	108.73
2	C6	25	ASN	N-CA-C	-6.67	99.42	110.17
2	CH	109	ASP	N-CA-C	-6.67	97.34	108.75
2	CX	25	ASN	N-CA-C	-6.67	99.42	110.17
2	Cd	25	ASN	N-CA-C	-6.67	99.42	110.17
2	Cj	42	ARG	CA-C-N	6.67	127.25	120.38
2	Cj	42	ARG	C-N-CA	6.67	127.25	120.38
2	Ck	25	ASN	N-CA-C	-6.67	99.42	110.17
3	Dd	168	ALA	N-CA-C	6.67	119.61	108.73
3	Dm	168	ALA	N-CA-C	6.67	119.61	108.73
3	Dn	32	PRO	CA-C-N	6.67	127.06	119.92
3	Dn	32	PRO	C-N-CA	6.67	127.06	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A8	68	TRP	N-CA-C	-6.67	105.67	113.88
2	C0	25	ASN	N-CA-C	-6.67	99.43	110.17
2	C1	97	VAL	N-CA-C	6.67	116.80	110.53
2	Ca	42	ARG	CA-C-N	6.67	127.25	120.38
2	Ca	42	ARG	C-N-CA	6.67	127.25	120.38
2	Cq	42	ARG	CA-C-N	6.67	127.25	120.38
2	Cq	42	ARG	C-N-CA	6.67	127.25	120.38
2	Cq	109	ASP	N-CA-C	-6.67	97.34	108.75
3	DO	168	ALA	N-CA-C	6.67	119.61	108.73
3	Dm	32	PRO	CA-C-N	6.67	127.06	119.92
3	Dm	32	PRO	C-N-CA	6.67	127.06	119.92
2	CJ	109	ASP	N-CA-C	-6.67	97.34	108.75
2	CL	97	VAL	N-CA-C	6.67	116.80	110.53
2	CT	109	ASP	N-CA-C	-6.67	97.34	108.75
2	Cc	109	ASP	N-CA-C	-6.67	97.34	108.75
2	Cv	42	ARG	CA-C-N	6.67	127.25	120.38
2	Cv	42	ARG	C-N-CA	6.67	127.25	120.38
2	Cx	25	ASN	N-CA-C	-6.67	99.43	110.17
3	D0	168	ALA	N-CA-C	6.67	119.60	108.73
3	D6	168	ALA	N-CA-C	6.67	119.61	108.73
3	D8	70	ASP	N-CA-C	6.67	118.24	110.97
2	CH	42	ARG	CA-C-N	6.67	127.25	120.38
2	CH	42	ARG	C-N-CA	6.67	127.25	120.38
2	CI	25	ASN	N-CA-C	-6.67	99.43	110.17
2	Co	109	ASP	N-CA-C	-6.67	97.34	108.75
3	D7	168	ALA	N-CA-C	6.67	119.60	108.73
1	AK	68	TRP	N-CA-C	-6.67	105.68	113.88
2	Cn	109	ASP	N-CA-C	-6.67	97.35	108.75
3	DJ	168	ALA	N-CA-C	6.67	119.60	108.73
3	Dn	168	ALA	N-CA-C	6.67	119.60	108.73
1	AN	101	PHE	N-CA-C	-6.67	99.72	110.32
2	C7	109	ASP	N-CA-C	-6.67	97.35	108.75
2	CV	109	ASP	N-CA-C	-6.67	97.35	108.75
2	Cf	25	ASN	N-CA-C	-6.67	99.44	110.17
2	Cj	109	ASP	N-CA-C	-6.67	97.35	108.75
2	Cq	25	ASN	N-CA-C	-6.67	99.44	110.17
1	AE	68	TRP	N-CA-C	-6.67	105.68	113.88
2	Cr	25	ASN	N-CA-C	-6.67	99.44	110.17
2	Cu	42	ARG	CA-C-N	6.67	127.25	120.38
2	Cu	42	ARG	C-N-CA	6.67	127.25	120.38
3	Da	168	ALA	N-CA-C	6.67	119.59	108.73
2	C3	25	ASN	N-CA-C	-6.66	99.44	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C7	42	ARG	CA-C-N	6.66	127.24	120.38
2	C7	42	ARG	C-N-CA	6.66	127.24	120.38
2	C8	25	ASN	N-CA-C	-6.66	99.44	110.17
2	CO	42	ARG	CA-C-N	6.66	127.24	120.38
2	CO	42	ARG	C-N-CA	6.66	127.24	120.38
2	CS	25	ASN	N-CA-C	-6.66	99.44	110.17
2	CW	25	ASN	N-CA-C	-6.66	99.44	110.17
2	Cf	109	ASP	N-CA-C	-6.66	97.36	108.75
2	Cl	109	ASP	N-CA-C	-6.66	97.35	108.75
2	Cv	25	ASN	N-CA-C	-6.66	99.44	110.17
2	Cw	109	ASP	N-CA-C	-6.66	97.35	108.75
3	DW	168	ALA	N-CA-C	6.66	119.59	108.73
3	DY	121	LEU	N-CA-C	6.66	119.25	108.32
2	Ca	109	ASP	N-CA-C	-6.66	97.36	108.75
3	Dj	168	ALA	N-CA-C	6.66	119.59	108.73
3	Dn	121	LEU	N-CA-C	6.66	119.25	108.32
2	C3	109	ASP	N-CA-C	-6.66	97.36	108.75
2	C4	42	ARG	CA-C-N	6.66	127.24	120.38
2	C4	42	ARG	C-N-CA	6.66	127.24	120.38
2	CR	25	ASN	N-CA-C	-6.66	99.45	110.17
2	CU	25	ASN	N-CA-C	-6.66	99.45	110.17
2	CV	175	MET	CA-C-N	6.66	128.17	119.84
2	CV	175	MET	C-N-CA	6.66	128.17	119.84
2	Cl	25	ASN	N-CA-C	-6.66	99.45	110.17
2	Ct	109	ASP	N-CA-C	-6.66	97.36	108.75
3	D3	168	ALA	N-CA-C	6.66	119.59	108.73
3	D5	168	ALA	N-CA-C	6.66	119.59	108.73
3	DD	168	ALA	N-CA-C	6.66	119.59	108.73
3	DG	168	ALA	N-CA-C	6.66	119.59	108.73
3	DT	70	ASP	N-CA-C	6.66	118.23	110.97
2	C1	42	ARG	CA-C-N	6.66	127.24	120.38
2	C1	42	ARG	C-N-CA	6.66	127.24	120.38
2	C6	42	ARG	CA-C-N	6.66	127.24	120.38
2	C6	42	ARG	C-N-CA	6.66	127.24	120.38
2	C8	42	ARG	CA-C-N	6.66	127.24	120.38
2	C8	42	ARG	C-N-CA	6.66	127.24	120.38
2	C9	109	ASP	N-CA-C	-6.66	97.36	108.75
2	CG	42	ARG	CA-C-N	6.66	127.24	120.38
2	CG	42	ARG	C-N-CA	6.66	127.24	120.38
2	CU	109	ASP	N-CA-C	-6.66	97.36	108.75
3	DI	168	ALA	N-CA-C	6.66	119.58	108.73
3	DN	168	ALA	N-CA-C	6.66	119.58	108.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DQ	168	ALA	N-CA-C	6.66	119.58	108.73
3	DS	168	ALA	N-CA-C	6.66	119.58	108.73
3	Ds	168	ALA	N-CA-C	6.66	119.58	108.73
2	C5	42	ARG	CA-C-N	6.66	127.24	120.38
2	C5	42	ARG	C-N-CA	6.66	127.24	120.38
2	Cv	109	ASP	N-CA-C	-6.66	97.37	108.75
3	DP	70	ASP	N-CA-C	6.66	118.23	110.97
3	EC	168	ALA	N-CA-C	6.66	119.58	108.73
2	CA	109	ASP	N-CA-C	-6.66	97.37	108.75
2	CL	109	ASP	N-CA-C	-6.66	97.37	108.75
2	CW	42	ARG	CA-C-N	6.66	127.23	120.38
2	CW	42	ARG	C-N-CA	6.66	127.23	120.38
2	CW	109	ASP	N-CA-C	-6.66	97.37	108.75
2	Co	25	ASN	N-CA-C	-6.66	99.45	110.17
2	Cu	25	ASN	N-CA-C	-6.66	99.45	110.17
3	Da	121	LEU	N-CA-C	6.66	119.24	108.32
3	Dh	168	ALA	N-CA-C	6.66	119.58	108.73
3	Dr	168	ALA	N-CA-C	6.66	119.58	108.73
2	CC	109	ASP	N-CA-C	-6.65	97.37	108.75
2	CM	25	ASN	N-CA-C	-6.65	99.46	110.17
2	Cs	25	ASN	N-CA-C	-6.65	99.46	110.17
2	CE	97	VAL	N-CA-C	6.65	116.78	110.53
2	CG	25	ASN	N-CA-C	-6.65	99.46	110.17
2	CQ	109	ASP	N-CA-C	-6.65	97.38	108.75
2	CS	42	ARG	CA-C-N	6.65	127.23	120.38
2	CS	42	ARG	C-N-CA	6.65	127.23	120.38
2	CX	42	ARG	CA-C-N	6.65	127.23	120.38
2	CX	42	ARG	C-N-CA	6.65	127.23	120.38
2	Ch	109	ASP	N-CA-C	-6.65	97.38	108.75
2	Cp	42	ARG	CA-C-N	6.65	127.23	120.38
2	Cp	42	ARG	C-N-CA	6.65	127.23	120.38
3	DF	70	ASP	N-CA-C	6.65	118.22	110.97
3	DF	168	ALA	N-CA-C	6.65	119.58	108.73
3	DG	70	ASP	N-CA-C	6.65	118.22	110.97
3	DH	168	ALA	N-CA-C	6.65	119.57	108.73
3	DN	121	LEU	N-CA-C	6.65	119.23	108.32
3	DO	121	LEU	N-CA-C	6.65	119.23	108.32
1	Aa	68	TRP	N-CA-C	-6.65	105.70	113.88
2	C5	97	VAL	N-CA-C	6.65	116.78	110.53
2	CE	109	ASP	N-CA-C	-6.65	97.38	108.75
2	CF	109	ASP	N-CA-C	-6.65	97.38	108.75
2	CY	25	ASN	N-CA-C	-6.65	99.46	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cb	25	ASN	N-CA-C	-6.65	99.46	110.17
2	Ce	25	ASN	N-CA-C	-6.65	99.46	110.17
2	Cp	25	ASN	N-CA-C	-6.65	99.46	110.17
3	DE	121	LEU	N-CA-C	6.65	119.23	108.32
3	DM	70	ASP	N-CA-C	6.65	118.22	110.97
3	DN	70	ASP	N-CA-C	6.65	118.22	110.97
3	DT	168	ALA	N-CA-C	6.65	119.57	108.73
3	DY	168	ALA	N-CA-C	6.65	119.57	108.73
3	Dd	70	ASP	N-CA-C	6.65	118.22	110.97
3	Dq	168	ALA	N-CA-C	6.65	119.57	108.73
3	ED	121	LEU	N-CA-C	6.65	119.23	108.32
3	EE	168	ALA	N-CA-C	6.65	119.57	108.73
2	C1	25	ASN	N-CA-C	-6.65	99.47	110.17
2	C2	109	ASP	N-CA-C	-6.65	97.38	108.75
2	C5	25	ASN	N-CA-C	-6.65	99.47	110.17
2	Ck	42	ARG	CA-C-N	6.65	127.23	120.38
2	Ck	42	ARG	C-N-CA	6.65	127.23	120.38
2	Cm	42	ARG	CA-C-N	6.65	127.23	120.38
2	Cm	42	ARG	C-N-CA	6.65	127.23	120.38
3	DL	168	ALA	N-CA-C	6.65	119.57	108.73
2	C2	25	ASN	N-CA-C	-6.65	99.47	110.17
2	C5	109	ASP	N-CA-C	-6.65	97.38	108.75
2	C8	109	ASP	N-CA-C	-6.65	97.38	108.75
2	CA	42	ARG	CA-C-N	6.65	127.23	120.38
2	CA	42	ARG	C-N-CA	6.65	127.23	120.38
2	CC	25	ASN	N-CA-C	-6.65	99.47	110.17
2	CN	109	ASP	N-CA-C	-6.65	97.38	108.75
2	CO	25	ASN	N-CA-C	-6.65	99.47	110.17
2	Cc	42	ARG	CA-C-N	6.65	127.23	120.38
2	Cc	42	ARG	C-N-CA	6.65	127.23	120.38
2	Cx	109	ASP	N-CA-C	-6.65	97.38	108.75
3	D1	121	LEU	N-CA-C	6.65	119.22	108.32
3	DM	168	ALA	N-CA-C	6.65	119.56	108.73
3	DV	121	LEU	N-CA-C	6.65	119.22	108.32
3	Dq	70	ASP	N-CA-C	6.65	118.22	110.97
3	EB	121	LEU	N-CA-C	6.65	119.22	108.32
2	Cb	42	ARG	CA-C-N	6.65	127.22	120.38
2	Cb	42	ARG	C-N-CA	6.65	127.22	120.38
2	Cd	97	VAL	N-CA-C	6.65	116.78	110.53
3	DU	168	ALA	N-CA-C	6.65	119.56	108.73
1	AL	68	TRP	N-CA-C	-6.64	105.71	113.88
1	BG	68	TRP	N-CA-C	-6.64	105.71	113.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CD	109	ASP	N-CA-C	-6.64	97.39	108.75
2	CF	25	ASN	N-CA-C	-6.64	99.47	110.17
2	CU	97	VAL	N-CA-C	6.64	116.78	110.53
2	CY	42	ARG	CA-C-N	6.64	127.22	120.38
2	CY	42	ARG	C-N-CA	6.64	127.22	120.38
2	CZ	97	VAL	N-CA-C	6.64	116.78	110.53
2	CZ	109	ASP	N-CA-C	-6.64	97.39	108.75
2	Cg	109	ASP	N-CA-C	-6.64	97.39	108.75
2	Cq	97	VAL	N-CA-C	6.64	116.78	110.53
2	Cr	109	ASP	N-CA-C	-6.64	97.39	108.75
3	DG	121	LEU	N-CA-C	6.64	119.22	108.32
3	DS	121	LEU	N-CA-C	6.64	119.22	108.32
3	Dd	121	LEU	N-CA-C	6.64	119.22	108.32
3	Di	168	ALA	N-CA-C	6.64	119.56	108.73
3	Dk	121	LEU	N-CA-C	6.64	119.22	108.32
3	Dm	121	LEU	N-CA-C	6.64	119.22	108.32
3	Dn	70	ASP	N-CA-C	6.64	118.21	110.97
3	Do	70	ASP	N-CA-C	6.64	118.21	110.97
1	AI	68	TRP	N-CA-C	-6.64	105.71	113.88
2	C4	109	ASP	N-CA-C	-6.64	97.39	108.75
2	CA	97	VAL	N-CA-C	6.64	116.77	110.53
2	CK	42	ARG	CA-C-N	6.64	127.22	120.38
2	CK	42	ARG	C-N-CA	6.64	127.22	120.38
2	CK	97	VAL	N-CA-C	6.64	116.77	110.53
2	CK	109	ASP	N-CA-C	-6.64	97.39	108.75
2	CN	25	ASN	N-CA-C	-6.64	99.47	110.17
2	Co	42	ARG	CA-C-N	6.64	127.22	120.38
2	Co	42	ARG	C-N-CA	6.64	127.22	120.38
2	Cu	109	ASP	N-CA-C	-6.64	97.39	108.75
3	D0	121	LEU	N-CA-C	6.64	119.22	108.32
3	D7	121	LEU	N-CA-C	6.64	119.21	108.32
3	DC	168	ALA	N-CA-C	6.64	119.56	108.73
3	DD	121	LEU	N-CA-C	6.64	119.22	108.32
3	DH	121	LEU	N-CA-C	6.64	119.21	108.32
3	DT	121	LEU	N-CA-C	6.64	119.21	108.32
1	Al	68	TRP	N-CA-C	-6.64	105.71	113.88
2	C4	25	ASN	N-CA-C	-6.64	99.48	110.17
2	CS	175	MET	CA-C-N	6.64	128.14	119.84
2	CS	175	MET	C-N-CA	6.64	128.14	119.84
2	Cj	25	ASN	N-CA-C	-6.64	99.48	110.17
2	Cl	97	VAL	N-CA-C	6.64	116.77	110.53
3	DA	121	LEU	N-CA-C	6.64	119.21	108.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A5	68	TRP	N-CA-C	-6.64	105.71	113.88
2	CL	42	ARG	CA-C-N	6.64	127.22	120.38
2	CL	42	ARG	C-N-CA	6.64	127.22	120.38
3	D1	70	ASP	N-CA-C	6.64	118.21	110.97
3	DC	121	LEU	N-CA-C	6.64	119.21	108.32
3	DQ	121	LEU	N-CA-C	6.64	119.21	108.32
3	DZ	168	ALA	N-CA-C	6.64	119.55	108.73
3	Dj	121	LEU	N-CA-C	6.64	119.21	108.32
3	Ds	121	LEU	N-CA-C	6.64	119.21	108.32
3	EB	168	ALA	N-CA-C	6.64	119.55	108.73
3	EC	121	LEU	N-CA-C	6.64	119.21	108.32
2	C9	42	ARG	CA-C-N	6.64	127.22	120.38
2	C9	42	ARG	C-N-CA	6.64	127.22	120.38
3	DO	70	ASP	N-CA-C	6.64	118.20	110.97
3	DW	70	ASP	N-CA-C	6.64	118.20	110.97
3	De	168	ALA	N-CA-C	6.64	119.55	108.73
3	Dj	70	ASP	N-CA-C	6.64	118.21	110.97
3	Do	168	ALA	N-CA-C	6.64	119.55	108.73
3	Dr	121	LEU	N-CA-C	6.64	119.21	108.32
1	AH	68	TRP	N-CA-C	-6.64	105.72	113.88
1	An	68	TRP	N-CA-C	-6.64	105.72	113.88
2	CV	25	ASN	N-CA-C	-6.64	99.48	110.17
2	CY	109	ASP	N-CA-C	-6.64	97.40	108.75
2	Ca	175	MET	CA-C-N	6.64	128.13	119.84
2	Ca	175	MET	C-N-CA	6.64	128.13	119.84
3	D9	121	LEU	N-CA-C	6.64	119.20	108.32
3	DV	168	ALA	N-CA-C	6.64	119.55	108.73
3	Dl	121	LEU	N-CA-C	6.64	119.20	108.32
1	AQ	68	TRP	N-CA-C	-6.63	105.72	113.88
1	BB	68	TRP	N-CA-C	-6.63	105.72	113.88
2	CB	25	ASN	N-CA-C	-6.63	99.49	110.17
2	CG	109	ASP	N-CA-C	-6.63	97.41	108.75
2	CX	109	ASP	N-CA-C	-6.63	97.41	108.75
2	Ck	109	ASP	N-CA-C	-6.63	97.41	108.75
2	Cn	25	ASN	N-CA-C	-6.63	99.49	110.17
2	Cn	97	VAL	N-CA-C	6.63	116.77	110.53
2	Cw	25	ASN	N-CA-C	-6.63	99.49	110.17
3	D0	70	ASP	N-CA-C	6.63	118.20	110.97
3	D4	70	ASP	N-CA-C	6.63	118.20	110.97
3	Dm	70	ASP	N-CA-C	6.63	118.20	110.97
2	CK	175	MET	CA-C-N	6.63	128.13	119.84
2	CK	175	MET	C-N-CA	6.63	128.13	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D2	121	LEU	N-CA-C	6.63	119.20	108.32
1	A0	68	TRP	N-CA-C	-6.63	105.72	113.88
1	AF	68	TRP	N-CA-C	-6.63	105.72	113.88
1	BC	68	TRP	N-CA-C	-6.63	105.72	113.88
2	CL	25	ASN	N-CA-C	-6.63	99.49	110.17
2	CO	109	ASP	N-CA-C	-6.63	97.41	108.75
2	CR	109	ASP	N-CA-C	-6.63	97.41	108.75
2	Cc	25	ASN	N-CA-C	-6.63	99.49	110.17
2	Cm	25	ASN	N-CA-C	-6.63	99.50	110.17
3	DD	70	ASP	N-CA-C	6.63	118.20	110.97
3	DU	70	ASP	N-CA-C	6.63	118.20	110.97
3	Dc	121	LEU	N-CA-C	6.63	119.20	108.32
1	Ah	68	TRP	N-CA-C	-6.63	105.72	113.88
2	C6	109	ASP	N-CA-C	-6.63	97.41	108.75
2	CS	109	ASP	N-CA-C	-6.63	97.41	108.75
3	DC	70	ASP	N-CA-C	6.63	118.20	110.97
3	DI	70	ASP	N-CA-C	6.63	118.20	110.97
1	AD	68	TRP	N-CA-C	-6.63	105.73	113.88
1	AR	68	TRP	N-CA-C	-6.63	105.73	113.88
2	CB	109	ASP	N-CA-C	-6.63	97.42	108.75
2	CE	25	ASN	N-CA-C	-6.63	99.50	110.17
2	CF	42	ARG	CA-C-N	6.63	127.21	120.38
2	CF	42	ARG	C-N-CA	6.63	127.21	120.38
2	CT	42	ARG	CA-C-N	6.63	127.21	120.38
2	CT	42	ARG	C-N-CA	6.63	127.21	120.38
3	D1	168	ALA	N-CA-C	6.63	119.53	108.73
3	D6	121	LEU	N-CA-C	6.63	119.19	108.32
3	D9	168	ALA	N-CA-C	6.63	119.53	108.73
3	DI	121	LEU	N-CA-C	6.63	119.19	108.32
3	DJ	121	LEU	N-CA-C	6.63	119.19	108.32
3	DK	70	ASP	N-CA-C	6.63	118.20	110.97
3	DP	121	LEU	N-CA-C	6.63	119.19	108.32
3	DZ	121	LEU	N-CA-C	6.63	119.19	108.32
3	Di	121	LEU	N-CA-C	6.63	119.19	108.32
3	Dk	70	ASP	N-CA-C	6.63	118.19	110.97
3	EE	121	LEU	N-CA-C	6.63	119.19	108.32
1	A2	68	TRP	N-CA-C	-6.63	105.73	113.88
2	C2	97	VAL	N-CA-C	6.63	116.76	110.53
2	CI	109	ASP	N-CA-C	-6.63	97.42	108.75
2	Cd	109	ASP	N-CA-C	-6.63	97.42	108.75
2	Ch	42	ARG	CA-C-N	6.63	127.21	120.38
2	Ch	42	ARG	C-N-CA	6.63	127.21	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cs	42	ARG	CA-C-N	6.63	127.20	120.38
2	Cs	42	ARG	C-N-CA	6.63	127.20	120.38
3	DA	70	ASP	N-CA-C	6.63	118.19	110.97
3	DK	121	LEU	N-CA-C	6.63	119.19	108.32
1	AA	68	TRP	N-CA-C	-6.62	105.73	113.88
1	AV	68	TRP	N-CA-C	-6.62	105.73	113.88
1	Ag	68	TRP	N-CA-C	-6.62	105.73	113.88
2	CI	97	VAL	N-CA-C	6.62	116.76	110.53
2	Ck	97	VAL	N-CA-C	6.62	116.76	110.53
3	DL	121	LEU	N-CA-C	6.62	119.19	108.32
3	Db	121	LEU	N-CA-C	6.62	119.19	108.32
1	A9	68	TRP	N-CA-C	-6.62	105.73	113.88
1	Ao	68	TRP	N-CA-C	-6.62	105.73	113.88
2	CI	42	ARG	CA-C-N	6.62	127.20	120.38
2	CI	42	ARG	C-N-CA	6.62	127.20	120.38
3	D5	121	LEU	N-CA-C	6.62	119.18	108.32
3	DV	70	ASP	N-CA-C	6.62	118.19	110.97
3	Do	121	LEU	N-CA-C	6.62	119.18	108.32
3	Dp	70	ASP	N-CA-C	6.62	118.19	110.97
3	EA	121	LEU	N-CA-C	6.62	119.18	108.32
1	AP	68	TRP	N-CA-C	-6.62	105.74	113.88
1	AS	68	TRP	N-CA-C	-6.62	105.74	113.88
1	Ab	68	TRP	N-CA-C	-6.62	105.74	113.88
1	Ac	68	TRP	N-CA-C	-6.62	105.74	113.88
2	CW	175	MET	CA-C-N	6.62	128.12	119.84
2	CW	175	MET	C-N-CA	6.62	128.12	119.84
2	CX	97	VAL	N-CA-C	6.62	116.75	110.53
2	Ch	25	ASN	N-CA-C	-6.62	99.51	110.17
2	Co	175	MET	CA-C-N	6.62	128.12	119.84
2	Co	175	MET	C-N-CA	6.62	128.12	119.84
3	D8	121	LEU	N-CA-C	6.62	119.18	108.32
3	DB	70	ASP	N-CA-C	6.62	118.19	110.97
3	DM	121	LEU	N-CA-C	6.62	119.18	108.32
3	DQ	70	ASP	N-CA-C	6.62	118.19	110.97
3	Df	121	LEU	N-CA-C	6.62	119.18	108.32
2	CJ	42	ARG	CA-C-N	6.62	127.20	120.38
2	CJ	42	ARG	C-N-CA	6.62	127.20	120.38
2	CT	97	VAL	N-CA-C	6.62	116.75	110.53
2	CZ	25	ASN	N-CA-C	-6.62	99.51	110.17
3	D5	70	ASP	N-CA-C	6.62	118.19	110.97
3	D9	70	ASP	N-CA-C	6.62	118.19	110.97
1	AJ	68	TRP	N-CA-C	-6.62	105.74	113.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Af	68	TRP	N-CA-C	-6.62	105.74	113.88
1	BF	68	TRP	N-CA-C	-6.62	105.74	113.88
2	CD	97	VAL	N-CA-C	6.62	116.75	110.53
2	Cd	175	MET	CA-C-N	6.62	128.11	119.84
2	Cd	175	MET	C-N-CA	6.62	128.11	119.84
2	Ce	109	ASP	N-CA-C	-6.62	97.43	108.75
2	Cn	175	MET	CA-C-N	6.62	128.11	119.84
2	Cn	175	MET	C-N-CA	6.62	128.11	119.84
3	DR	121	LEU	N-CA-C	6.62	119.17	108.32
3	Db	168	ALA	N-CA-C	6.62	119.52	108.73
1	AG	68	TRP	N-CA-C	-6.62	105.74	113.88
2	Cd	42	ARG	CA-C-N	6.62	127.19	120.38
2	Cd	42	ARG	C-N-CA	6.62	127.19	120.38
1	AW	68	TRP	N-CA-C	-6.62	105.74	113.88
1	AX	68	TRP	N-CA-C	-6.62	105.74	113.88
3	DX	70	ASP	N-CA-C	6.62	118.18	110.97
3	Dh	121	LEU	N-CA-C	6.62	119.17	108.32
3	ED	168	ALA	N-CA-C	6.62	119.51	108.73
1	AO	68	TRP	N-CA-C	-6.61	105.75	113.88
1	AT	68	TRP	N-CA-C	-6.61	105.75	113.88
1	Aj	68	TRP	N-CA-C	-6.61	105.75	113.88
2	CG	97	VAL	N-CA-C	6.61	116.75	110.53
2	CS	97	VAL	N-CA-C	6.61	116.75	110.53
2	Cr	175	MET	CA-C-N	6.61	128.11	119.84
2	Cr	175	MET	C-N-CA	6.61	128.11	119.84
3	D7	70	ASP	N-CA-C	6.61	118.18	110.97
3	EA	70	ASP	N-CA-C	6.61	118.18	110.97
3	Dp	121	LEU	N-CA-C	6.61	119.16	108.32
1	AU	68	TRP	N-CA-C	-6.61	105.75	113.88
1	Ad	68	TRP	N-CA-C	-6.61	105.75	113.88
1	BH	68	TRP	N-CA-C	-6.61	105.75	113.88
3	DZ	70	ASP	N-CA-C	6.61	118.17	110.97
3	Dr	70	ASP	N-CA-C	6.61	118.17	110.97
3	Di	70	ASP	N-CA-C	6.61	118.17	110.97
1	AB	68	TRP	N-CA-C	-6.61	105.75	113.88
1	AC	68	TRP	N-CA-C	-6.61	105.75	113.88
1	AY	68	TRP	N-CA-C	-6.61	105.75	113.88
2	C3	42	ARG	CA-C-N	6.61	127.19	120.38
2	C3	42	ARG	C-N-CA	6.61	127.19	120.38
2	C8	97	VAL	N-CA-C	6.61	116.74	110.53
2	CK	25	ASN	N-CA-C	-6.61	99.53	110.17
2	CY	97	VAL	N-CA-C	6.61	116.74	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cb	175	MET	CA-C-N	6.61	128.10	119.84
2	Cb	175	MET	C-N-CA	6.61	128.10	119.84
2	Cr	42	ARG	CA-C-N	6.61	127.19	120.38
2	Cr	42	ARG	C-N-CA	6.61	127.19	120.38
3	DF	121	LEU	N-CA-C	6.61	119.16	108.32
3	DJ	70	ASP	N-CA-C	6.61	118.17	110.97
3	Dg	121	LEU	N-CA-C	6.61	119.16	108.32
3	Ds	70	ASP	N-CA-C	6.61	118.17	110.97
1	AZ	68	TRP	N-CA-C	-6.61	105.75	113.88
2	C9	97	VAL	N-CA-C	6.61	116.74	110.53
2	CE	42	ARG	CA-C-N	6.61	127.18	120.38
2	CE	42	ARG	C-N-CA	6.61	127.18	120.38
2	CJ	25	ASN	N-CA-C	-6.61	99.53	110.17
2	CL	175	MET	CA-C-N	6.61	128.10	119.84
2	CL	175	MET	C-N-CA	6.61	128.10	119.84
2	Ci	109	ASP	N-CA-C	-6.61	97.46	108.75
2	Cm	97	VAL	N-CA-C	6.61	116.74	110.53
2	Cu	175	MET	CA-C-N	6.61	128.10	119.84
2	Cu	175	MET	C-N-CA	6.61	128.10	119.84
3	DR	70	ASP	N-CA-C	6.61	118.17	110.97
3	De	121	LEU	N-CA-C	6.61	119.15	108.32
2	C2	175	MET	CA-C-N	6.60	128.09	119.84
2	C2	175	MET	C-N-CA	6.60	128.09	119.84
2	Cg	175	MET	CA-C-N	6.60	128.09	119.84
2	Cg	175	MET	C-N-CA	6.60	128.09	119.84
2	Cl	175	MET	CA-C-N	6.60	128.09	119.84
2	Cl	175	MET	C-N-CA	6.60	128.09	119.84
3	DU	121	LEU	N-CA-C	6.60	119.15	108.32
3	DW	121	LEU	N-CA-C	6.60	119.15	108.32
3	EC	70	ASP	N-CA-C	6.60	118.17	110.97
1	A1	68	TRP	N-CA-C	-6.60	105.76	113.88
1	A7	68	TRP	N-CA-C	-6.60	105.76	113.88
1	Ae	68	TRP	N-CA-C	-6.60	105.76	113.88
2	CZ	175	MET	CA-C-N	6.60	128.09	119.84
2	CZ	175	MET	C-N-CA	6.60	128.09	119.84
2	Ch	175	MET	CA-C-N	6.60	128.09	119.84
2	Ch	175	MET	C-N-CA	6.60	128.09	119.84
2	Cw	42	ARG	CA-C-N	6.60	127.18	120.38
2	Cw	42	ARG	C-N-CA	6.60	127.18	120.38
2	C5	175	MET	CA-C-N	6.60	128.09	119.84
2	C5	175	MET	C-N-CA	6.60	128.09	119.84
2	CC	42	ARG	CA-C-N	6.60	127.18	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CC	42	ARG	C-N-CA	6.60	127.18	120.38
2	Cu	97	VAL	N-CA-C	6.60	116.73	110.53
2	Cg	42	ARG	CA-C-N	6.60	127.18	120.38
2	Cg	42	ARG	C-N-CA	6.60	127.18	120.38
3	D3	70	ASP	N-CA-C	6.60	118.16	110.97
3	DY	70	ASP	N-CA-C	6.60	118.16	110.97
1	BD	68	TRP	N-CA-C	-6.60	105.77	113.88
2	CJ	97	VAL	N-CA-C	6.60	116.73	110.53
2	CN	175	MET	CA-C-N	6.60	128.09	119.84
2	CN	175	MET	C-N-CA	6.60	128.09	119.84
2	CO	175	MET	CA-C-N	6.60	128.09	119.84
2	CO	175	MET	C-N-CA	6.60	128.09	119.84
2	Cc	175	MET	CA-C-N	6.60	128.09	119.84
2	Cc	175	MET	C-N-CA	6.60	128.09	119.84
3	D5	183	LEU	N-CA-C	-6.60	97.61	108.76
3	Dq	121	LEU	N-CA-C	6.60	119.14	108.32
3	ED	70	ASP	N-CA-C	6.60	118.16	110.97
3	EE	70	ASP	N-CA-C	6.60	118.16	110.97
2	C9	175	MET	CA-C-N	6.60	128.09	119.84
2	C9	175	MET	C-N-CA	6.60	128.09	119.84
2	CZ	42	ARG	CA-C-N	6.60	127.17	120.38
2	CZ	42	ARG	C-N-CA	6.60	127.17	120.38
3	Da	70	ASP	N-CA-C	6.60	118.16	110.97
2	C6	97	VAL	N-CA-C	6.59	116.73	110.53
2	CB	97	VAL	N-CA-C	6.59	116.73	110.53
2	CP	97	VAL	N-CA-C	6.59	116.73	110.53
2	CQ	97	VAL	N-CA-C	6.59	116.73	110.53
2	Ca	97	VAL	N-CA-C	6.59	116.73	110.53
2	Cr	97	VAL	N-CA-C	6.59	116.73	110.53
3	DL	183	LEU	N-CA-C	-6.59	97.61	108.76
1	A4	68	TRP	N-CA-C	-6.59	105.77	113.88
2	CQ	175	MET	CA-C-N	6.59	128.08	119.84
2	CQ	175	MET	C-N-CA	6.59	128.08	119.84
2	Cb	97	VAL	N-CA-C	6.59	116.73	110.53
2	Ci	97	VAL	N-CA-C	6.59	116.73	110.53
2	Cx	97	VAL	N-CA-C	6.59	116.73	110.53
3	De	70	ASP	N-CA-C	6.59	118.16	110.97
2	CN	42	ARG	CA-C-N	6.59	127.17	120.38
2	CN	42	ARG	C-N-CA	6.59	127.17	120.38
2	CR	175	MET	CA-C-N	6.59	128.08	119.84
2	CR	175	MET	C-N-CA	6.59	128.08	119.84
2	CD	175	MET	CA-C-N	6.59	128.08	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CD	175	MET	C-N-CA	6.59	128.08	119.84
2	Ce	97	VAL	N-CA-C	6.59	116.72	110.53
2	Cl	42	ARG	CA-C-N	6.59	127.17	120.38
2	Cl	42	ARG	C-N-CA	6.59	127.17	120.38
2	Cv	175	MET	CA-C-N	6.59	128.08	119.84
2	Cv	175	MET	C-N-CA	6.59	128.08	119.84
3	D2	70	ASP	N-CA-C	6.59	118.15	110.97
3	D6	70	ASP	N-CA-C	6.59	118.15	110.97
1	A6	68	TRP	N-CA-C	-6.59	105.78	113.88
2	CV	42	ARG	CA-C-N	6.59	127.17	120.38
2	CV	42	ARG	C-N-CA	6.59	127.17	120.38
1	Ai	68	TRP	N-CA-C	-6.59	105.78	113.88
2	Cp	175	MET	CA-C-N	6.59	128.07	119.84
2	Cp	175	MET	C-N-CA	6.59	128.07	119.84
3	DC	183	LEU	N-CA-C	-6.59	97.63	108.76
2	CF	175	MET	CA-C-N	6.58	128.07	119.84
2	CF	175	MET	C-N-CA	6.58	128.07	119.84
1	A3	68	TRP	N-CA-C	-6.58	105.78	113.88
1	BA	68	TRP	N-CA-C	-6.58	105.78	113.88
2	CM	175	MET	CA-C-N	6.58	128.07	119.84
2	CM	175	MET	C-N-CA	6.58	128.07	119.84
2	Cw	97	VAL	N-CA-C	6.58	116.72	110.53
3	Dl	70	ASP	N-CA-C	6.58	118.14	110.97
2	C4	97	VAL	N-CA-C	6.58	116.72	110.53
2	CI	175	MET	CA-C-N	6.58	128.07	119.84
2	CI	175	MET	C-N-CA	6.58	128.07	119.84
2	Cx	175	MET	CA-C-N	6.58	128.07	119.84
2	Cx	175	MET	C-N-CA	6.58	128.07	119.84
3	Ds	183	LEU	N-CA-C	-6.58	97.64	108.76
3	EB	70	ASP	N-CA-C	6.58	118.14	110.97
3	EC	183	LEU	N-CA-C	-6.58	97.64	108.76
3	Do	183	LEU	N-CA-C	-6.58	97.64	108.76
1	BE	68	TRP	N-CA-C	-6.58	105.79	113.88
1	BI	68	TRP	N-CA-C	-6.58	105.79	113.88
2	CP	42	ARG	CA-C-N	6.58	127.16	120.38
2	CP	42	ARG	C-N-CA	6.58	127.16	120.38
2	Cg	97	VAL	N-CA-C	6.58	116.71	110.53
3	EB	183	LEU	N-CA-C	-6.58	97.65	108.76
2	C7	175	MET	CA-C-N	6.58	128.06	119.84
2	C7	175	MET	C-N-CA	6.58	128.06	119.84
2	CH	97	VAL	N-CA-C	6.58	116.71	110.53
2	Ce	175	MET	CA-C-N	6.58	128.06	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ce	175	MET	C-N-CA	6.58	128.06	119.84
2	Ck	175	MET	CA-C-N	6.58	128.06	119.84
2	Ck	175	MET	C-N-CA	6.58	128.06	119.84
2	Ct	97	VAL	N-CA-C	6.58	116.71	110.53
3	DE	70	ASP	N-CA-C	6.58	118.14	110.97
3	Dc	183	LEU	N-CA-C	-6.58	97.65	108.76
2	Ci	175	MET	CA-C-N	6.57	128.06	119.84
2	Ci	175	MET	C-N-CA	6.57	128.06	119.84
3	DA	183	LEU	N-CA-C	-6.57	97.65	108.76
3	Db	70	ASP	N-CA-C	6.57	118.13	110.97
3	Di	183	LEU	N-CA-C	-6.57	97.65	108.76
2	CP	175	MET	CA-C-N	6.57	128.06	119.84
2	CP	175	MET	C-N-CA	6.57	128.06	119.84
2	CY	175	MET	CA-C-N	6.57	128.06	119.84
2	CY	175	MET	C-N-CA	6.57	128.06	119.84
2	Ch	97	VAL	N-CA-C	6.57	116.71	110.53
3	DF	183	LEU	N-CA-C	-6.57	97.65	108.76
3	DX	183	LEU	N-CA-C	-6.57	97.65	108.76
2	Cf	175	MET	CA-C-N	6.57	128.05	119.84
2	Cf	175	MET	C-N-CA	6.57	128.05	119.84
3	Da	183	LEU	N-CA-C	-6.57	97.66	108.76
2	C0	175	MET	CA-C-N	6.57	128.05	119.84
2	C0	175	MET	C-N-CA	6.57	128.05	119.84
2	CO	97	VAL	N-CA-C	6.57	116.70	110.53
2	CX	175	MET	CA-C-N	6.57	128.05	119.84
2	CX	175	MET	C-N-CA	6.57	128.05	119.84
3	DW	183	LEU	N-CA-C	-6.57	97.66	108.76
3	EA	183	LEU	N-CA-C	-6.57	97.66	108.76
2	CV	97	VAL	N-CA-C	6.57	116.70	110.53
2	Cj	97	VAL	N-CA-C	6.57	116.70	110.53
2	Cv	97	VAL	N-CA-C	6.57	116.70	110.53
2	Cj	175	MET	CA-C-N	6.57	128.05	119.84
2	Cj	175	MET	C-N-CA	6.57	128.05	119.84
3	DE	183	LEU	N-CA-C	-6.57	97.67	108.76
3	DQ	183	LEU	N-CA-C	-6.57	97.67	108.76
3	DR	183	LEU	N-CA-C	-6.57	97.67	108.76
3	DY	119	LYS	CB-CA-C	6.57	123.48	110.42
2	CR	97	VAL	N-CA-C	6.56	116.70	110.53
2	Cx	42	ARG	CA-C-N	6.56	127.14	120.38
2	Cx	42	ARG	C-N-CA	6.56	127.14	120.38
3	DP	119	LYS	CB-CA-C	6.56	123.48	110.42
3	Dp	183	LEU	N-CA-C	-6.56	97.67	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AN	68	TRP	N-CA-C	-6.56	105.81	113.88
2	C3	175	MET	CA-C-N	6.56	128.04	119.84
2	C3	175	MET	C-N-CA	6.56	128.04	119.84
3	D4	183	LEU	N-CA-C	-6.56	97.67	108.76
3	DE	119	LYS	CB-CA-C	6.56	123.48	110.42
3	DQ	119	LYS	CB-CA-C	6.56	123.48	110.42
3	DT	183	LEU	N-CA-C	-6.56	97.67	108.76
3	Dg	183	LEU	N-CA-C	-6.56	97.67	108.76
3	Dk	183	LEU	N-CA-C	-6.56	97.67	108.76
3	EA	119	LYS	CB-CA-C	6.56	123.48	110.42
3	EC	119	LYS	CB-CA-C	6.56	123.48	110.42
2	Cf	42	ARG	CA-C-N	6.56	127.14	120.38
2	Cf	42	ARG	C-N-CA	6.56	127.14	120.38
2	Ct	175	MET	CA-C-N	6.56	128.04	119.84
2	Ct	175	MET	C-N-CA	6.56	128.04	119.84
3	DB	183	LEU	N-CA-C	-6.56	97.67	108.76
3	DI	183	LEU	N-CA-C	-6.56	97.67	108.76
3	EE	183	LEU	N-CA-C	-6.56	97.67	108.76
2	CJ	175	MET	CA-C-N	6.56	128.04	119.84
2	CJ	175	MET	C-N-CA	6.56	128.04	119.84
2	Cm	175	MET	CA-C-N	6.56	128.04	119.84
2	Cm	175	MET	C-N-CA	6.56	128.04	119.84
2	Cs	97	VAL	N-CA-C	6.56	116.70	110.53
3	DJ	183	LEU	N-CA-C	-6.56	97.67	108.76
3	DT	119	LYS	CB-CA-C	6.56	123.47	110.42
3	Dj	183	LEU	N-CA-C	-6.56	97.67	108.76
3	Dr	183	LEU	N-CA-C	-6.56	97.67	108.76
2	CF	97	VAL	N-CA-C	6.56	116.69	110.53
2	CT	175	MET	CA-C-N	6.56	128.04	119.84
2	CT	175	MET	C-N-CA	6.56	128.04	119.84
3	DW	119	LYS	CB-CA-C	6.56	123.47	110.42
3	Dh	70	ASP	N-CA-C	6.56	118.12	110.97
2	C4	175	MET	CA-C-N	6.56	128.04	119.84
2	C4	175	MET	C-N-CA	6.56	128.04	119.84
2	C6	175	MET	CA-C-N	6.56	128.03	119.84
2	C6	175	MET	C-N-CA	6.56	128.03	119.84
2	CA	175	MET	CA-C-N	6.56	128.03	119.84
2	CA	175	MET	C-N-CA	6.56	128.03	119.84
2	Ct	42	ARG	CA-C-N	6.56	127.13	120.38
2	Ct	42	ARG	C-N-CA	6.56	127.13	120.38
3	DA	119	LYS	CB-CA-C	6.56	123.47	110.42
3	DV	119	LYS	CB-CA-C	6.56	123.47	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Db	119	LYS	CB-CA-C	6.56	123.47	110.42
3	Di	119	LYS	CB-CA-C	6.56	123.47	110.42
2	CC	175	MET	CA-C-N	6.55	128.03	119.84
2	CC	175	MET	C-N-CA	6.55	128.03	119.84
3	DR	119	LYS	CB-CA-C	6.55	123.46	110.42
3	DS	183	LEU	N-CA-C	-6.55	97.68	108.76
3	Dq	119	LYS	CB-CA-C	6.55	123.46	110.42
3	Dr	119	LYS	CB-CA-C	6.55	123.47	110.42
3	EE	119	LYS	CB-CA-C	6.55	123.46	110.42
2	CN	97	VAL	N-CA-C	6.55	116.69	110.53
2	Co	97	VAL	N-CA-C	6.55	116.69	110.53
3	De	119	LYS	CB-CA-C	6.55	123.46	110.42
1	Am	68	TRP	N-CA-C	-6.55	105.82	113.88
2	CB	175	MET	CA-C-N	6.55	128.03	119.84
2	CB	175	MET	C-N-CA	6.55	128.03	119.84
2	CE	175	MET	CA-C-N	6.55	128.03	119.84
2	CE	175	MET	C-N-CA	6.55	128.03	119.84
2	Cq	175	MET	CA-C-N	6.55	128.03	119.84
2	Cq	175	MET	C-N-CA	6.55	128.03	119.84
3	D2	183	LEU	N-CA-C	-6.55	97.69	108.76
3	D3	119	LYS	CB-CA-C	6.55	123.46	110.42
3	D8	119	LYS	CB-CA-C	6.55	123.46	110.42
3	DC	119	LYS	CB-CA-C	6.55	123.46	110.42
3	DY	183	LEU	N-CA-C	-6.55	97.69	108.76
3	Dh	119	LYS	CB-CA-C	6.55	123.46	110.42
3	Dh	183	LEU	N-CA-C	-6.55	97.69	108.76
2	CC	97	VAL	N-CA-C	6.55	116.69	110.53
2	Cf	97	VAL	N-CA-C	6.55	116.69	110.53
2	Cw	175	MET	CA-C-N	6.55	128.03	119.84
2	Cw	175	MET	C-N-CA	6.55	128.03	119.84
3	DH	183	LEU	N-CA-C	-6.55	97.69	108.76
3	Df	183	LEU	N-CA-C	-6.55	97.69	108.76
3	Do	119	LYS	CB-CA-C	6.55	123.45	110.42
3	Dp	119	LYS	CB-CA-C	6.55	123.45	110.42
3	DL	119	LYS	CB-CA-C	6.55	123.45	110.42
2	C7	97	VAL	N-CA-C	6.55	116.68	110.53
3	Db	183	LEU	N-CA-C	-6.55	97.69	108.76
3	Dk	119	LYS	CB-CA-C	6.55	123.45	110.42
3	Dm	183	LEU	N-CA-C	-6.55	97.69	108.76
3	Dl	119	LYS	CB-CA-C	6.54	123.44	110.42
2	CW	97	VAL	N-CA-C	6.54	116.68	110.53
3	D8	183	LEU	N-CA-C	-6.54	97.70	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DI	183	LEU	N-CA-C	-6.54	97.70	108.76
3	DP	183	LEU	N-CA-C	-6.54	97.70	108.76
3	DZ	183	LEU	N-CA-C	-6.54	97.70	108.76
3	D0	119	LYS	CB-CA-C	6.54	123.44	110.42
3	D1	119	LYS	CB-CA-C	6.54	123.44	110.42
3	D5	119	LYS	CB-CA-C	6.54	123.44	110.42
3	D9	183	LEU	N-CA-C	-6.54	97.71	108.76
3	DB	119	LYS	CB-CA-C	6.54	123.44	110.42
3	DM	119	LYS	CB-CA-C	6.54	123.44	110.42
3	Dc	119	LYS	CB-CA-C	6.54	123.44	110.42
3	EB	119	LYS	CB-CA-C	6.54	123.44	110.42
2	C1	175	MET	CA-C-N	6.54	128.01	119.84
2	C1	175	MET	C-N-CA	6.54	128.01	119.84
2	C3	97	VAL	N-CA-C	6.54	116.68	110.53
3	D7	183	LEU	N-CA-C	-6.54	97.71	108.76
2	Cs	175	MET	CA-C-N	6.54	128.01	119.84
2	Cs	175	MET	C-N-CA	6.54	128.01	119.84
3	D1	183	LEU	N-CA-C	-6.54	97.71	108.76
3	DS	119	LYS	CB-CA-C	6.54	123.43	110.42
3	DV	183	LEU	N-CA-C	-6.54	97.71	108.76
3	DZ	119	LYS	CB-CA-C	6.54	123.43	110.42
3	Dq	183	LEU	N-CA-C	-6.54	97.71	108.76
3	D7	119	LYS	CB-CA-C	6.54	123.42	110.42
3	DG	183	LEU	N-CA-C	-6.54	97.71	108.76
2	CM	97	VAL	N-CA-C	6.53	116.67	110.53
3	D6	119	LYS	CB-CA-C	6.53	123.42	110.42
3	DN	183	LEU	N-CA-C	-6.53	97.72	108.76
3	DO	183	LEU	N-CA-C	-6.53	97.72	108.76
3	Da	119	LYS	CB-CA-C	6.53	123.42	110.42
3	Dj	119	LYS	CB-CA-C	6.53	123.42	110.42
3	ED	119	LYS	CB-CA-C	6.53	123.42	110.42
2	CU	175	MET	CA-C-N	6.53	128.00	119.84
2	CU	175	MET	C-N-CA	6.53	128.00	119.84
3	DK	183	LEU	N-CA-C	-6.53	97.72	108.76
3	Df	119	LYS	CB-CA-C	6.53	123.42	110.42
1	Ak	68	TRP	N-CA-C	-6.53	105.85	113.88
3	DN	119	LYS	CB-CA-C	6.53	123.42	110.42
3	DU	119	LYS	CB-CA-C	6.53	123.42	110.42
3	Dg	119	LYS	CB-CA-C	6.53	123.42	110.42
3	Ds	119	LYS	CB-CA-C	6.53	123.42	110.42
2	CH	175	MET	CA-C-N	6.53	128.00	119.84
2	CH	175	MET	C-N-CA	6.53	128.00	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D3	183	LEU	N-CA-C	-6.53	97.73	108.76
3	DD	119	LYS	CB-CA-C	6.53	123.41	110.42
3	DK	119	LYS	CB-CA-C	6.53	123.41	110.42
3	DM	183	LEU	N-CA-C	-6.53	97.73	108.76
3	DU	183	LEU	N-CA-C	-6.53	97.73	108.76
3	De	183	LEU	N-CA-C	-6.53	97.73	108.76
3	D2	119	LYS	CB-CA-C	6.53	123.41	110.42
3	DO	119	LYS	CB-CA-C	6.53	123.41	110.42
3	Dn	119	LYS	CB-CA-C	6.53	123.41	110.42
2	C0	97	VAL	N-CA-C	6.53	116.66	110.53
3	D6	183	LEU	N-CA-C	-6.53	97.73	108.76
3	DD	183	LEU	N-CA-C	-6.53	97.73	108.76
3	DF	119	LYS	CB-CA-C	6.53	123.41	110.42
3	DJ	119	LYS	CB-CA-C	6.53	123.41	110.42
3	Dd	119	LYS	CB-CA-C	6.53	123.41	110.42
3	Dm	119	LYS	CB-CA-C	6.53	123.41	110.42
3	D0	183	LEU	N-CA-C	-6.52	97.74	108.76
2	CG	175	MET	CA-C-N	6.52	127.99	119.84
2	CG	175	MET	C-N-CA	6.52	127.99	119.84
3	ED	183	LEU	N-CA-C	-6.52	97.74	108.76
3	D9	119	LYS	CB-CA-C	6.52	123.39	110.42
3	DI	119	LYS	CB-CA-C	6.52	123.39	110.42
3	Dd	183	LEU	N-CA-C	-6.52	97.74	108.76
3	DX	119	LYS	CB-CA-C	6.52	123.39	110.42
3	Dn	183	LEU	N-CA-C	-6.52	97.75	108.76
3	DG	119	LYS	CB-CA-C	6.51	123.38	110.42
3	DH	119	LYS	CB-CA-C	6.51	123.38	110.42
2	Cc	97	VAL	N-CA-C	6.51	116.65	110.53
3	D4	119	LYS	CB-CA-C	6.51	123.37	110.42
2	Cp	97	VAL	N-CA-C	6.51	116.65	110.53
2	C8	175	MET	CA-C-N	6.50	127.97	119.84
2	C8	175	MET	C-N-CA	6.50	127.97	119.84
2	CG	226	LEU	CA-C-N	6.48	127.94	119.84
2	CG	226	LEU	C-N-CA	6.48	127.94	119.84
2	Cd	226	LEU	CA-C-N	6.46	127.92	119.84
2	Cd	226	LEU	C-N-CA	6.46	127.92	119.84
2	C8	226	LEU	CA-C-N	6.45	127.91	119.84
2	C8	226	LEU	C-N-CA	6.45	127.91	119.84
2	CC	46	THR	N-CA-C	6.45	120.39	111.55
2	CC	226	LEU	CA-C-N	6.45	127.90	119.84
2	CC	226	LEU	C-N-CA	6.45	127.90	119.84
2	CR	46	THR	N-CA-C	6.45	120.38	111.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cp	46	THR	N-CA-C	6.45	120.38	111.55
2	CL	46	THR	N-CA-C	6.44	120.38	111.55
2	C2	226	LEU	CA-C-N	6.44	127.89	119.84
2	C2	226	LEU	C-N-CA	6.44	127.89	119.84
2	CF	46	THR	N-CA-C	6.44	120.37	111.55
2	CM	46	THR	N-CA-C	6.44	120.37	111.55
2	Co	46	THR	N-CA-C	6.44	120.37	111.55
2	Cq	46	THR	N-CA-C	6.44	120.37	111.55
2	CT	46	THR	N-CA-C	6.44	120.37	111.55
2	Co	226	LEU	CA-C-N	6.44	127.89	119.84
2	Co	226	LEU	C-N-CA	6.44	127.89	119.84
2	Cr	226	LEU	CA-C-N	6.44	127.89	119.84
2	Cr	226	LEU	C-N-CA	6.44	127.89	119.84
2	Cc	46	THR	N-CA-C	6.44	120.37	111.55
2	Cs	46	THR	N-CA-C	6.44	120.37	111.55
2	CG	46	THR	N-CA-C	6.43	120.36	111.55
2	CU	226	LEU	CA-C-N	6.43	127.88	119.84
2	CU	226	LEU	C-N-CA	6.43	127.88	119.84
2	Cf	46	THR	N-CA-C	6.43	120.36	111.55
2	Cv	46	THR	N-CA-C	6.43	120.36	111.55
2	CY	226	LEU	CA-C-N	6.43	127.88	119.84
2	CY	226	LEU	C-N-CA	6.43	127.88	119.84
2	Cn	226	LEU	CA-C-N	6.43	127.88	119.84
2	Cn	226	LEU	C-N-CA	6.43	127.88	119.84
2	CD	226	LEU	CA-C-N	6.43	127.88	119.84
2	CD	226	LEU	C-N-CA	6.43	127.88	119.84
2	Ck	46	THR	N-CA-C	6.43	120.36	111.55
2	CV	46	THR	N-CA-C	6.42	120.35	111.55
2	Cn	46	THR	N-CA-C	6.42	120.35	111.55
2	C8	46	THR	N-CA-C	6.42	120.35	111.55
2	CD	46	THR	N-CA-C	6.42	120.35	111.55
2	Ce	226	LEU	CA-C-N	6.42	127.87	119.84
2	Ce	226	LEU	C-N-CA	6.42	127.87	119.84
2	Cm	46	THR	N-CA-C	6.42	120.35	111.55
2	CN	46	THR	N-CA-C	6.42	120.34	111.55
2	CH	46	THR	N-CA-C	6.42	120.34	111.55
2	CX	226	LEU	CA-C-N	6.42	127.86	119.84
2	CX	226	LEU	C-N-CA	6.42	127.86	119.84
1	AR	43	LEU	N-CA-C	6.42	120.52	108.65
2	C6	46	THR	N-CA-C	6.42	120.34	111.55
2	CO	226	LEU	CA-C-N	6.42	127.86	119.84
2	CO	226	LEU	C-N-CA	6.42	127.86	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CQ	46	THR	N-CA-C	6.42	120.34	111.55
2	CY	46	THR	N-CA-C	6.42	120.34	111.55
2	C0	46	THR	N-CA-C	6.42	120.34	111.55
2	CI	46	THR	N-CA-C	6.42	120.34	111.55
2	Cd	46	THR	N-CA-C	6.42	120.34	111.55
2	C4	46	THR	N-CA-C	6.41	120.34	111.55
2	C7	226	LEU	CA-C-N	6.41	127.86	119.84
2	C7	226	LEU	C-N-CA	6.41	127.86	119.84
2	CW	46	THR	N-CA-C	6.41	120.34	111.55
2	Cl	46	THR	N-CA-C	6.41	120.34	111.55
2	Cm	226	LEU	CA-C-N	6.41	127.86	119.84
2	Cm	226	LEU	C-N-CA	6.41	127.86	119.84
2	C9	226	LEU	CA-C-N	6.41	127.86	119.84
2	C9	226	LEU	C-N-CA	6.41	127.86	119.84
2	Ch	46	THR	N-CA-C	6.41	120.33	111.55
1	AE	43	LEU	N-CA-C	6.41	120.51	108.65
1	AV	43	LEU	N-CA-C	6.41	120.51	108.65
2	C3	46	THR	N-CA-C	6.41	120.33	111.55
2	CK	46	THR	N-CA-C	6.41	120.33	111.55
2	CU	46	THR	N-CA-C	6.41	120.33	111.55
2	CW	226	LEU	CA-C-N	6.41	127.85	119.84
2	CW	226	LEU	C-N-CA	6.41	127.85	119.84
2	Cj	226	LEU	CA-C-N	6.41	127.85	119.84
2	Cj	226	LEU	C-N-CA	6.41	127.85	119.84
2	Ct	46	THR	N-CA-C	6.41	120.33	111.55
1	AZ	43	LEU	N-CA-C	6.41	120.50	108.65
1	Am	43	LEU	N-CA-C	6.41	120.51	108.65
2	CZ	226	LEU	CA-C-N	6.41	127.85	119.84
2	CZ	226	LEU	C-N-CA	6.41	127.85	119.84
2	Cj	46	THR	N-CA-C	6.41	120.33	111.55
2	CP	46	THR	N-CA-C	6.41	120.33	111.55
1	A0	43	LEU	N-CA-C	6.41	120.50	108.65
1	BF	43	LEU	N-CA-C	6.41	120.50	108.65
2	CH	226	LEU	CA-C-N	6.41	127.85	119.84
2	CH	226	LEU	C-N-CA	6.41	127.85	119.84
2	Cf	226	LEU	CA-C-N	6.41	127.85	119.84
2	Cf	226	LEU	C-N-CA	6.41	127.85	119.84
2	Cx	46	THR	N-CA-C	6.41	120.33	111.55
2	CX	46	THR	N-CA-C	6.40	120.32	111.55
2	Cw	226	LEU	CA-C-N	6.40	127.84	119.84
2	Cw	226	LEU	C-N-CA	6.40	127.84	119.84
1	AY	43	LEU	N-CA-C	6.40	120.50	108.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ck	226	LEU	CA-C-N	6.40	127.84	119.84
2	Ck	226	LEU	C-N-CA	6.40	127.84	119.84
1	AT	43	LEU	N-CA-C	6.40	120.49	108.65
2	Ca	46	THR	N-CA-C	6.40	120.32	111.55
2	Cb	226	LEU	CA-C-N	6.40	127.84	119.84
2	Cb	226	LEU	C-N-CA	6.40	127.84	119.84
2	Cg	226	LEU	CA-C-N	6.40	127.84	119.84
2	Cg	226	LEU	C-N-CA	6.40	127.84	119.84
1	AB	43	LEU	N-CA-C	6.40	120.49	108.65
1	AU	43	LEU	N-CA-C	6.40	120.49	108.65
2	CE	46	THR	N-CA-C	6.40	120.32	111.55
2	CK	226	LEU	CA-C-N	6.40	127.84	119.84
2	CK	226	LEU	C-N-CA	6.40	127.84	119.84
2	Cs	226	LEU	CA-C-N	6.40	127.84	119.84
2	Cs	226	LEU	C-N-CA	6.40	127.84	119.84
1	AK	43	LEU	N-CA-C	6.40	120.48	108.65
2	CS	46	THR	N-CA-C	6.40	120.32	111.55
1	AM	43	LEU	N-CA-C	6.40	120.48	108.65
1	BG	43	LEU	N-CA-C	6.40	120.48	108.65
2	CJ	46	THR	N-CA-C	6.40	120.31	111.55
1	A6	43	LEU	N-CA-C	6.39	120.48	108.65
1	AC	43	LEU	N-CA-C	6.39	120.48	108.65
2	Ce	46	THR	N-CA-C	6.39	120.31	111.55
2	Cw	46	THR	N-CA-C	6.39	120.31	111.55
1	AH	43	LEU	N-CA-C	6.39	120.48	108.65
1	An	43	LEU	N-CA-C	6.39	120.48	108.65
2	C1	46	THR	N-CA-C	6.39	120.31	111.55
2	CA	46	THR	N-CA-C	6.39	120.31	111.55
2	Cg	46	THR	N-CA-C	6.39	120.31	111.55
2	Cl	226	LEU	CA-C-N	6.39	127.83	119.84
2	Cl	226	LEU	C-N-CA	6.39	127.83	119.84
1	A2	43	LEU	N-CA-C	6.39	120.47	108.65
1	Ag	43	LEU	N-CA-C	6.39	120.47	108.65
1	A3	43	LEU	N-CA-C	6.39	120.47	108.65
2	C2	46	THR	N-CA-C	6.39	120.30	111.55
2	C7	46	THR	N-CA-C	6.39	120.30	111.55
2	CL	226	LEU	CA-C-N	6.39	127.82	119.84
2	CL	226	LEU	C-N-CA	6.39	127.82	119.84
2	CO	46	THR	N-CA-C	6.39	120.30	111.55
2	CP	226	LEU	CA-C-N	6.39	127.82	119.84
2	CP	226	LEU	C-N-CA	6.39	127.82	119.84
2	Ca	226	LEU	CA-C-N	6.39	127.82	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ca	226	LEU	C-N-CA	6.39	127.82	119.84
1	A4	43	LEU	N-CA-C	6.38	120.46	108.65
1	AN	43	LEU	N-CA-C	6.38	120.46	108.65
1	Ab	43	LEU	N-CA-C	6.38	120.46	108.65
1	Ac	43	LEU	N-CA-C	6.38	120.46	108.65
1	Ah	43	LEU	N-CA-C	6.38	120.46	108.65
2	C9	46	THR	N-CA-C	6.38	120.30	111.55
2	CA	226	LEU	CA-C-N	6.38	127.82	119.84
2	CA	226	LEU	C-N-CA	6.38	127.82	119.84
2	Ci	46	THR	N-CA-C	6.38	120.30	111.55
2	C5	226	LEU	CA-C-N	6.38	127.82	119.84
2	C5	226	LEU	C-N-CA	6.38	127.82	119.84
2	CZ	46	THR	N-CA-C	6.38	120.30	111.55
2	CQ	226	LEU	CA-C-N	6.38	127.82	119.84
2	CQ	226	LEU	C-N-CA	6.38	127.82	119.84
1	Aa	43	LEU	N-CA-C	6.38	120.45	108.65
1	Ad	43	LEU	N-CA-C	6.38	120.45	108.65
2	C1	226	LEU	CA-C-N	6.38	127.81	119.84
2	C1	226	LEU	C-N-CA	6.38	127.81	119.84
2	CJ	226	LEU	CA-C-N	6.38	127.81	119.84
2	CJ	226	LEU	C-N-CA	6.38	127.81	119.84
2	CT	226	LEU	CA-C-N	6.38	127.81	119.84
2	CT	226	LEU	C-N-CA	6.38	127.81	119.84
2	Cp	226	LEU	CA-C-N	6.38	127.81	119.84
2	Cp	226	LEU	C-N-CA	6.38	127.81	119.84
1	Af	43	LEU	N-CA-C	6.38	120.45	108.65
2	C3	226	LEU	CA-C-N	6.38	127.81	119.84
2	C3	226	LEU	C-N-CA	6.38	127.81	119.84
2	CI	226	LEU	CA-C-N	6.38	127.81	119.84
2	CI	226	LEU	C-N-CA	6.38	127.81	119.84
2	Cr	46	THR	N-CA-C	6.38	120.29	111.55
1	Al	43	LEU	N-CA-C	6.38	120.44	108.65
2	Cu	226	LEU	CA-C-N	6.38	127.81	119.84
2	Cu	226	LEU	C-N-CA	6.38	127.81	119.84
1	AP	43	LEU	N-CA-C	6.37	120.44	108.65
1	Ai	43	LEU	N-CA-C	6.37	120.44	108.65
1	Ao	43	LEU	N-CA-C	6.37	120.44	108.65
2	C5	46	THR	N-CA-C	6.37	120.28	111.55
1	A8	43	LEU	N-CA-C	6.37	120.44	108.65
1	AD	43	LEU	N-CA-C	6.37	120.44	108.65
1	AG	43	LEU	N-CA-C	6.37	120.44	108.65
1	AO	43	LEU	N-CA-C	6.37	120.44	108.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ae	43	LEU	N-CA-C	6.37	120.44	108.65
1	BB	43	LEU	N-CA-C	6.37	120.44	108.65
2	CE	226	LEU	CA-C-N	6.37	127.80	119.84
2	CE	226	LEU	C-N-CA	6.37	127.80	119.84
2	CS	226	LEU	CA-C-N	6.37	127.80	119.84
2	CS	226	LEU	C-N-CA	6.37	127.80	119.84
2	Cv	226	LEU	CA-C-N	6.37	127.80	119.84
2	Cv	226	LEU	C-N-CA	6.37	127.80	119.84
1	A5	43	LEU	N-CA-C	6.37	120.43	108.65
1	AW	43	LEU	N-CA-C	6.37	120.44	108.65
1	BC	43	LEU	N-CA-C	6.37	120.43	108.65
2	Cq	226	LEU	CA-C-N	6.37	127.80	119.84
2	Cq	226	LEU	C-N-CA	6.37	127.80	119.84
1	A7	43	LEU	N-CA-C	6.37	120.43	108.65
1	AL	43	LEU	N-CA-C	6.37	120.43	108.65
2	CB	46	THR	N-CA-C	6.37	120.28	111.55
2	CM	226	LEU	CA-C-N	6.37	127.80	119.84
2	CM	226	LEU	C-N-CA	6.37	127.80	119.84
2	Ci	226	LEU	CA-C-N	6.37	127.80	119.84
2	Ci	226	LEU	C-N-CA	6.37	127.80	119.84
2	Cu	46	THR	N-CA-C	6.37	120.27	111.55
1	AA	43	LEU	N-CA-C	6.37	120.42	108.65
2	Cb	46	THR	N-CA-C	6.37	120.27	111.55
1	AI	43	LEU	N-CA-C	6.36	120.42	108.65
1	AQ	43	LEU	N-CA-C	6.36	120.42	108.65
1	BD	43	LEU	N-CA-C	6.36	120.42	108.65
2	C6	226	LEU	CA-C-N	6.36	127.79	119.84
2	C6	226	LEU	C-N-CA	6.36	127.79	119.84
2	CV	226	LEU	CA-C-N	6.36	127.79	119.84
2	CV	226	LEU	C-N-CA	6.36	127.79	119.84
1	BA	43	LEU	N-CA-C	6.36	120.42	108.65
2	CF	226	LEU	CA-C-N	6.36	127.79	119.84
2	CF	226	LEU	C-N-CA	6.36	127.79	119.84
2	CR	226	LEU	CA-C-N	6.36	127.79	119.84
2	CR	226	LEU	C-N-CA	6.36	127.79	119.84
1	AF	43	LEU	N-CA-C	6.36	120.41	108.65
1	AJ	43	LEU	N-CA-C	6.36	120.41	108.65
1	Aj	43	LEU	N-CA-C	6.36	120.41	108.65
1	Ak	43	LEU	N-CA-C	6.36	120.41	108.65
1	BI	43	LEU	N-CA-C	6.36	120.41	108.65
1	A1	43	LEU	N-CA-C	6.35	120.40	108.65
1	AS	43	LEU	N-CA-C	6.35	120.40	108.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AX	43	LEU	N-CA-C	6.35	120.40	108.65
1	BE	43	LEU	N-CA-C	6.35	120.40	108.65
1	BH	43	LEU	N-CA-C	6.35	120.40	108.65
2	Ct	226	LEU	CA-C-N	6.35	127.78	119.84
2	Ct	226	LEU	C-N-CA	6.35	127.78	119.84
2	Cx	226	LEU	CA-C-N	6.35	127.78	119.84
2	Cx	226	LEU	C-N-CA	6.35	127.78	119.84
1	A9	43	LEU	N-CA-C	6.35	120.39	108.65
2	CN	226	LEU	CA-C-N	6.35	127.78	119.84
2	CN	226	LEU	C-N-CA	6.35	127.78	119.84
2	Cc	226	LEU	CA-C-N	6.34	127.77	119.84
2	Cc	226	LEU	C-N-CA	6.34	127.77	119.84
2	CL	92	GLY	N-CA-C	6.34	131.69	113.30
2	C4	226	LEU	CA-C-N	6.33	127.76	119.84
2	C4	226	LEU	C-N-CA	6.33	127.76	119.84
2	Ch	226	LEU	CA-C-N	6.33	127.76	119.84
2	Ch	226	LEU	C-N-CA	6.33	127.76	119.84
2	C0	226	LEU	CA-C-N	6.33	127.75	119.84
2	C0	226	LEU	C-N-CA	6.33	127.75	119.84
2	CS	92	GLY	N-CA-C	6.33	131.65	113.30
2	CG	92	GLY	N-CA-C	6.33	131.65	113.30
2	Cv	92	GLY	N-CA-C	6.33	131.64	113.30
2	CF	92	GLY	N-CA-C	6.32	131.64	113.30
2	Cg	92	GLY	N-CA-C	6.32	131.64	113.30
2	C1	92	GLY	N-CA-C	6.32	131.63	113.30
2	C3	92	GLY	N-CA-C	6.32	131.63	113.30
2	C4	92	GLY	N-CA-C	6.32	131.63	113.30
2	CO	92	GLY	N-CA-C	6.32	131.63	113.30
2	Ce	92	GLY	N-CA-C	6.32	131.63	113.30
2	C7	92	GLY	N-CA-C	6.32	131.62	113.30
2	CB	226	LEU	CA-C-N	6.32	127.74	119.84
2	CB	226	LEU	C-N-CA	6.32	127.74	119.84
2	CE	92	GLY	N-CA-C	6.32	131.62	113.30
2	CZ	92	GLY	N-CA-C	6.32	131.62	113.30
2	Ca	92	GLY	N-CA-C	6.32	131.62	113.30
2	C5	92	GLY	N-CA-C	6.32	131.61	113.30
2	C6	92	GLY	N-CA-C	6.32	131.61	113.30
2	Ch	92	GLY	N-CA-C	6.32	131.62	113.30
2	CC	92	GLY	N-CA-C	6.31	131.61	113.30
2	CD	92	GLY	N-CA-C	6.31	131.61	113.30
2	CX	92	GLY	N-CA-C	6.31	131.61	113.30
2	Cn	92	GLY	N-CA-C	6.31	131.61	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Co	92	GLY	N-CA-C	6.31	131.61	113.30
2	Cp	92	GLY	N-CA-C	6.31	131.61	113.30
2	Cd	92	GLY	N-CA-C	6.31	131.60	113.30
2	Cr	92	GLY	N-CA-C	6.31	131.60	113.30
2	CA	92	GLY	N-CA-C	6.31	131.60	113.30
2	CT	92	GLY	N-CA-C	6.31	131.59	113.30
2	Cb	92	GLY	N-CA-C	6.31	131.60	113.30
2	Cj	92	GLY	N-CA-C	6.31	131.60	113.30
2	Cu	92	GLY	N-CA-C	6.31	131.59	113.30
2	CJ	92	GLY	N-CA-C	6.31	131.59	113.30
2	CM	92	GLY	N-CA-C	6.31	131.59	113.30
2	CU	92	GLY	N-CA-C	6.31	131.59	113.30
2	Ci	92	GLY	N-CA-C	6.31	131.59	113.30
2	C2	92	GLY	N-CA-C	6.31	131.59	113.30
2	CW	92	GLY	N-CA-C	6.31	131.59	113.30
2	CN	92	GLY	N-CA-C	6.30	131.59	113.30
2	CP	92	GLY	N-CA-C	6.30	131.58	113.30
2	CQ	92	GLY	N-CA-C	6.30	131.58	113.30
2	Ck	92	GLY	N-CA-C	6.30	131.58	113.30
2	Cm	92	GLY	N-CA-C	6.30	131.58	113.30
2	C8	92	GLY	N-CA-C	6.30	131.58	113.30
2	CR	92	GLY	N-CA-C	6.30	131.57	113.30
2	Cq	92	GLY	N-CA-C	6.30	131.57	113.30
2	Ct	92	GLY	N-CA-C	6.30	131.57	113.30
2	C0	92	GLY	N-CA-C	6.30	131.57	113.30
2	CB	92	GLY	N-CA-C	6.30	131.57	113.30
2	CV	92	GLY	N-CA-C	6.30	131.57	113.30
2	Cc	92	GLY	N-CA-C	6.30	131.57	113.30
2	Cf	92	GLY	N-CA-C	6.30	131.57	113.30
2	CH	92	GLY	N-CA-C	6.30	131.56	113.30
2	CK	92	GLY	N-CA-C	6.30	131.56	113.30
2	CY	92	GLY	N-CA-C	6.30	131.56	113.30
2	Cs	92	GLY	N-CA-C	6.30	131.56	113.30
2	Cl	92	GLY	N-CA-C	6.30	131.56	113.30
2	C9	92	GLY	N-CA-C	6.29	131.55	113.30
2	Cx	92	GLY	N-CA-C	6.29	131.54	113.30
2	CI	92	GLY	N-CA-C	6.29	131.54	113.30
2	Cw	92	GLY	N-CA-C	6.29	131.53	113.30
3	D3	138	ALA	N-CA-C	6.28	118.20	111.36
3	DV	138	ALA	N-CA-C	6.27	118.20	111.36
3	D9	138	ALA	N-CA-C	6.27	118.19	111.36
3	DP	138	ALA	N-CA-C	6.26	118.18	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DF	138	ALA	N-CA-C	6.25	118.18	111.36
3	DA	138	ALA	N-CA-C	6.25	118.17	111.36
2	CK	73	GLN	N-CA-C	6.25	119.73	107.98
3	D1	138	ALA	N-CA-C	6.24	118.17	111.36
3	D6	138	ALA	N-CA-C	6.24	118.16	111.36
3	DG	138	ALA	N-CA-C	6.24	118.16	111.36
3	Dg	138	ALA	N-CA-C	6.24	118.16	111.36
3	Dl	138	ALA	N-CA-C	6.23	118.16	111.36
2	Ck	73	GLN	N-CA-C	6.23	119.69	107.98
2	Cr	73	GLN	N-CA-C	6.23	119.69	107.98
3	DT	138	ALA	N-CA-C	6.23	118.15	111.36
3	EE	138	ALA	N-CA-C	6.23	118.15	111.36
3	DH	138	ALA	N-CA-C	6.23	118.15	111.36
2	Co	73	GLN	N-CA-C	6.22	119.68	107.98
2	CU	73	GLN	N-CA-C	6.22	119.68	107.98
2	Cs	73	GLN	N-CA-C	6.22	119.68	107.98
3	Dj	138	ALA	N-CA-C	6.22	118.14	111.36
3	EA	138	ALA	N-CA-C	6.22	118.14	111.36
2	Cp	73	GLN	N-CA-C	6.22	119.67	107.98
3	DQ	138	ALA	N-CA-C	6.22	118.14	111.36
3	DT	55	SER	N-CA-C	6.22	119.28	109.39
3	De	138	ALA	N-CA-C	6.22	118.14	111.36
2	Cb	73	GLN	N-CA-C	6.22	119.67	107.98
2	CD	73	GLN	N-CA-C	6.22	119.67	107.98
2	CL	73	GLN	N-CA-C	6.22	119.67	107.98
2	Cc	73	GLN	N-CA-C	6.22	119.67	107.98
2	Cd	73	GLN	N-CA-C	6.22	119.67	107.98
3	D5	138	ALA	N-CA-C	6.22	118.14	111.36
3	DL	138	ALA	N-CA-C	6.22	118.14	111.36
2	C9	73	GLN	N-CA-C	6.21	119.66	107.98
2	CA	73	GLN	N-CA-C	6.21	119.66	107.98
2	CY	73	GLN	N-CA-C	6.21	119.66	107.98
3	DD	138	ALA	N-CA-C	6.21	118.13	111.36
3	ED	138	ALA	N-CA-C	6.21	118.14	111.36
2	C1	73	GLN	N-CA-C	6.21	119.66	107.98
2	CF	73	GLN	N-CA-C	6.21	119.66	107.98
2	CS	73	GLN	N-CA-C	6.21	119.66	107.98
2	Ch	73	GLN	N-CA-C	6.21	119.66	107.98
3	DJ	55	SER	N-CA-C	6.21	119.26	109.39
2	C7	73	GLN	N-CA-C	6.21	119.65	107.98
2	Ct	73	GLN	N-CA-C	6.21	119.65	107.98
3	D4	55	SER	N-CA-C	6.21	119.26	109.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DO	138	ALA	N-CA-C	6.21	118.13	111.36
3	DU	138	ALA	N-CA-C	6.21	118.13	111.36
2	CV	73	GLN	N-CA-C	6.21	119.65	107.98
2	CX	73	GLN	N-CA-C	6.21	119.65	107.98
2	Cx	73	GLN	N-CA-C	6.21	119.65	107.98
2	CE	73	GLN	N-CA-C	6.21	119.64	107.98
2	CH	73	GLN	N-CA-C	6.21	119.64	107.98
2	CW	73	GLN	N-CA-C	6.21	119.64	107.98
2	Ca	73	GLN	N-CA-C	6.21	119.65	107.98
2	Cu	73	GLN	N-CA-C	6.21	119.65	107.98
3	Da	138	ALA	N-CA-C	6.21	118.12	111.36
2	C4	73	GLN	N-CA-C	6.20	119.64	107.98
2	CN	73	GLN	N-CA-C	6.20	119.64	107.98
2	CT	73	GLN	N-CA-C	6.20	119.64	107.98
3	Df	55	SER	N-CA-C	6.20	119.25	109.39
3	DW	138	ALA	N-CA-C	6.20	118.12	111.36
3	EC	138	ALA	N-CA-C	6.20	118.12	111.36
2	CJ	73	GLN	N-CA-C	6.20	119.64	107.98
2	Cf	73	GLN	N-CA-C	6.20	119.64	107.98
3	Dd	138	ALA	N-CA-C	6.20	118.12	111.36
3	Di	138	ALA	N-CA-C	6.20	118.12	111.36
2	CZ	73	GLN	N-CA-C	6.20	119.63	107.98
2	CB	73	GLN	N-CA-C	6.20	119.63	107.98
3	DB	138	ALA	N-CA-C	6.20	118.11	111.36
3	DE	138	ALA	N-CA-C	6.20	118.11	111.36
2	CC	73	GLN	N-CA-C	6.20	119.63	107.98
2	C0	73	GLN	N-CA-C	6.19	119.62	107.98
2	C6	73	GLN	N-CA-C	6.19	119.63	107.98
2	C8	73	GLN	N-CA-C	6.19	119.62	107.98
3	D8	138	ALA	N-CA-C	6.19	118.11	111.36
3	D7	55	SER	N-CA-C	6.19	119.23	109.39
3	DR	138	ALA	N-CA-C	6.19	118.11	111.36
3	DY	55	SER	N-CA-C	6.19	119.23	109.39
3	DL	55	SER	N-CA-C	6.19	119.23	109.39
3	DN	138	ALA	N-CA-C	6.19	118.11	111.36
3	Db	138	ALA	N-CA-C	6.19	118.11	111.36
3	Dq	138	ALA	N-CA-C	6.19	118.11	111.36
3	Dm	55	SER	N-CA-C	6.19	119.23	109.39
3	Dp	55	SER	N-CA-C	6.19	119.23	109.39
2	CR	73	GLN	N-CA-C	6.19	119.61	107.98
3	DG	55	SER	N-CA-C	6.19	119.23	109.39
3	DJ	138	ALA	N-CA-C	6.19	118.10	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Dd	55	SER	N-CA-C	6.19	119.23	109.39
3	EB	138	ALA	N-CA-C	6.19	118.10	111.36
3	DU	55	SER	N-CA-C	6.19	119.22	109.39
3	DX	138	ALA	N-CA-C	6.19	118.10	111.36
2	C2	73	GLN	N-CA-C	6.18	119.61	107.98
2	CG	73	GLN	N-CA-C	6.18	119.61	107.98
2	CO	73	GLN	N-CA-C	6.18	119.61	107.98
2	Ce	73	GLN	N-CA-C	6.18	119.61	107.98
3	D0	138	ALA	N-CA-C	6.18	118.10	111.36
3	D7	138	ALA	N-CA-C	6.18	118.10	111.36
3	DV	55	SER	N-CA-C	6.18	119.22	109.39
3	Dk	138	ALA	N-CA-C	6.18	118.10	111.36
2	Ci	73	GLN	N-CA-C	6.18	119.60	107.98
2	Cm	73	GLN	N-CA-C	6.18	119.60	107.98
2	Cw	73	GLN	N-CA-C	6.18	119.60	107.98
3	D8	55	SER	N-CA-C	6.18	119.22	109.39
3	Dp	138	ALA	N-CA-C	6.18	118.10	111.36
2	CI	73	GLN	N-CA-C	6.18	119.60	107.98
2	CQ	73	GLN	N-CA-C	6.18	119.60	107.98
2	Cl	73	GLN	N-CA-C	6.18	119.60	107.98
2	Cv	73	GLN	N-CA-C	6.18	119.60	107.98
3	Dm	138	ALA	N-CA-C	6.18	118.10	111.36
3	Ds	55	SER	N-CA-C	6.18	119.22	109.39
2	Cg	73	GLN	N-CA-C	6.18	119.60	107.98
3	DC	55	SER	N-CA-C	6.18	119.22	109.39
3	DS	55	SER	N-CA-C	6.18	119.22	109.39
2	Cj	73	GLN	N-CA-C	6.18	119.59	107.98
3	EA	55	SER	N-CA-C	6.18	119.21	109.39
2	CP	73	GLN	N-CA-C	6.17	119.59	107.98
3	D5	55	SER	N-CA-C	6.17	119.21	109.39
3	DS	138	ALA	N-CA-C	6.17	118.09	111.36
3	De	55	SER	N-CA-C	6.17	119.21	109.39
3	Dg	55	SER	N-CA-C	6.17	119.21	109.39
3	DI	55	SER	N-CA-C	6.17	119.21	109.39
3	Do	55	SER	N-CA-C	6.17	119.21	109.39
3	Dr	138	ALA	N-CA-C	6.17	118.09	111.36
2	C3	73	GLN	N-CA-C	6.17	119.59	107.98
2	Cn	73	GLN	N-CA-C	6.17	119.59	107.98
3	Do	138	ALA	N-CA-C	6.17	118.09	111.36
3	D0	55	SER	N-CA-C	6.17	119.20	109.39
3	DD	55	SER	N-CA-C	6.17	119.20	109.39
3	DK	55	SER	N-CA-C	6.17	119.20	109.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DK	138	ALA	N-CA-C	6.17	118.09	111.36
3	Dn	138	ALA	N-CA-C	6.17	118.09	111.36
2	CM	73	GLN	N-CA-C	6.17	119.58	107.98
3	D1	55	SER	N-CA-C	6.17	119.20	109.39
3	D4	138	ALA	N-CA-C	6.17	118.09	111.36
3	DM	55	SER	N-CA-C	6.17	119.20	109.39
2	Cq	73	GLN	N-CA-C	6.17	119.58	107.98
3	D3	55	SER	N-CA-C	6.17	119.20	109.39
3	EB	55	SER	N-CA-C	6.17	119.20	109.39
2	C5	73	GLN	N-CA-C	6.17	119.57	107.98
3	DE	55	SER	N-CA-C	6.17	119.19	109.39
3	Dh	55	SER	N-CA-C	6.17	119.20	109.39
3	DP	55	SER	N-CA-C	6.16	119.19	109.39
3	DZ	138	ALA	N-CA-C	6.16	118.08	111.36
3	DF	55	SER	N-CA-C	6.16	119.18	109.39
3	DI	138	ALA	N-CA-C	6.16	118.07	111.36
3	DQ	55	SER	N-CA-C	6.16	119.18	109.39
3	DX	55	SER	N-CA-C	6.16	119.18	109.39
3	Dr	55	SER	N-CA-C	6.16	119.18	109.39
3	ED	55	SER	N-CA-C	6.16	119.18	109.39
3	D2	138	ALA	N-CA-C	6.16	118.07	111.36
3	DB	55	SER	N-CA-C	6.16	119.18	109.39
1	BH	56	VAL	N-CA-C	6.16	116.74	107.75
3	DA	55	SER	N-CA-C	6.16	119.18	109.39
3	DC	138	ALA	N-CA-C	6.16	118.07	111.36
3	Dc	138	ALA	N-CA-C	6.16	118.07	111.36
3	DY	138	ALA	N-CA-C	6.15	118.06	111.36
3	Dh	138	ALA	N-CA-C	6.15	118.07	111.36
1	AK	56	VAL	N-CA-C	6.15	116.73	107.75
3	DN	55	SER	N-CA-C	6.15	119.17	109.39
3	DR	55	SER	N-CA-C	6.15	119.17	109.39
3	Da	55	SER	N-CA-C	6.15	119.17	109.39
3	EE	55	SER	N-CA-C	6.15	119.17	109.39
3	DI	55	SER	N-CA-C	6.15	119.17	109.39
3	D2	55	SER	N-CA-C	6.15	119.16	109.39
3	DH	55	SER	N-CA-C	6.15	119.16	109.39
3	DO	55	SER	N-CA-C	6.15	119.17	109.39
3	EC	55	SER	N-CA-C	6.15	119.16	109.39
3	DM	138	ALA	N-CA-C	6.14	118.06	111.36
3	Db	55	SER	N-CA-C	6.14	119.16	109.39
1	AQ	56	VAL	N-CA-C	6.14	116.72	107.75
3	D6	55	SER	N-CA-C	6.14	119.16	109.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Ds	138	ALA	N-CA-C	6.14	118.06	111.36
1	Ae	56	VAL	N-CA-C	6.14	116.71	107.75
3	Df	138	ALA	N-CA-C	6.14	118.05	111.36
1	AF	56	VAL	N-CA-C	6.13	116.71	107.75
3	Dq	55	SER	N-CA-C	6.13	119.14	109.39
1	AX	56	VAL	N-CA-C	6.13	116.70	107.75
1	Aa	56	VAL	N-CA-C	6.13	116.70	107.75
3	Dj	55	SER	N-CA-C	6.13	119.14	109.39
2	CY	103	LEU	N-CA-C	6.13	119.53	109.72
3	Dc	55	SER	N-CA-C	6.13	119.13	109.39
3	Dk	55	SER	N-CA-C	6.13	119.13	109.39
3	Dn	55	SER	N-CA-C	6.13	119.13	109.39
1	A4	56	VAL	N-CA-C	6.12	116.69	107.75
1	AS	56	VAL	N-CA-C	6.12	116.69	107.75
3	D9	55	SER	N-CA-C	6.12	119.12	109.39
3	Di	55	SER	N-CA-C	6.12	119.12	109.39
1	AH	56	VAL	N-CA-C	6.12	116.69	107.75
1	AU	56	VAL	N-CA-C	6.12	116.69	107.75
1	AG	56	VAL	N-CA-C	6.12	116.68	107.75
1	A2	56	VAL	N-CA-C	6.12	116.68	107.75
1	Af	56	VAL	N-CA-C	6.12	116.68	107.75
3	DZ	55	SER	N-CA-C	6.12	119.11	109.39
1	A0	56	VAL	N-CA-C	6.11	116.68	107.75
1	A8	56	VAL	N-CA-C	6.11	116.67	107.75
1	A9	56	VAL	N-CA-C	6.11	116.67	107.75
1	BG	56	VAL	N-CA-C	6.11	116.67	107.75
2	CJ	103	LEU	N-CA-C	6.11	119.50	109.72
1	AV	56	VAL	N-CA-C	6.11	116.67	107.75
1	Ah	56	VAL	N-CA-C	6.11	116.67	107.75
1	Ao	56	VAL	N-CA-C	6.11	116.67	107.75
1	A7	56	VAL	N-CA-C	6.11	116.67	107.75
1	AJ	56	VAL	N-CA-C	6.11	116.67	107.75
1	AR	56	VAL	N-CA-C	6.11	116.67	107.75
2	CP	103	LEU	N-CA-C	6.11	119.49	109.72
1	AA	56	VAL	N-CA-C	6.11	116.66	107.75
1	BB	56	VAL	N-CA-C	6.11	116.66	107.75
1	A5	56	VAL	N-CA-C	6.10	116.66	107.75
2	Cv	103	LEU	N-CA-C	6.10	119.49	109.72
1	A1	56	VAL	N-CA-C	6.10	116.66	107.75
2	C3	103	LEU	N-CA-C	6.10	119.48	109.72
2	CM	103	LEU	N-CA-C	6.10	119.48	109.72
2	Cf	103	LEU	N-CA-C	6.10	119.48	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cq	103	LEU	N-CA-C	6.10	119.48	109.72
1	Am	56	VAL	N-CA-C	6.10	116.66	107.75
2	Cl	103	LEU	N-CA-C	6.10	119.48	109.72
1	AL	56	VAL	N-CA-C	6.10	116.66	107.75
1	AM	56	VAL	N-CA-C	6.10	116.66	107.75
1	AT	56	VAL	N-CA-C	6.10	116.66	107.75
1	AZ	56	VAL	N-CA-C	6.10	116.66	107.75
1	BE	56	VAL	N-CA-C	6.10	116.66	107.75
1	BI	56	VAL	N-CA-C	6.10	116.66	107.75
2	CZ	103	LEU	N-CA-C	6.10	119.48	109.72
1	AK	56	VAL	N-CA-C	6.10	116.65	107.75
1	BA	56	VAL	N-CA-C	6.10	116.65	107.75
2	Co	103	LEU	N-CA-C	6.10	119.48	109.72
3	DW	55	SER	N-CA-C	6.10	119.08	109.39
2	Cw	103	LEU	N-CA-C	6.10	119.47	109.72
1	AD	56	VAL	N-CA-C	6.09	116.65	107.75
2	Ck	103	LEU	N-CA-C	6.09	119.47	109.72
1	Al	56	VAL	N-CA-C	6.09	116.65	107.75
1	Ab	56	VAL	N-CA-C	6.09	116.64	107.75
1	Ag	56	VAL	N-CA-C	6.09	116.64	107.75
2	Ch	103	LEU	N-CA-C	6.09	119.47	109.72
1	Ad	56	VAL	N-CA-C	6.09	116.64	107.75
1	Aj	56	VAL	N-CA-C	6.09	116.64	107.75
1	BD	56	VAL	N-CA-C	6.09	116.64	107.75
2	C4	103	LEU	N-CA-C	6.09	119.46	109.72
2	Ca	103	LEU	N-CA-C	6.09	119.46	109.72
1	Ai	56	VAL	N-CA-C	6.09	116.64	107.75
1	BC	56	VAL	N-CA-C	6.09	116.64	107.75
2	CA	103	LEU	N-CA-C	6.09	119.46	109.72
2	CH	103	LEU	N-CA-C	6.08	119.46	109.72
2	CT	103	LEU	N-CA-C	6.08	119.45	109.72
1	AB	56	VAL	N-CA-C	6.08	116.63	107.75
1	AN	56	VAL	N-CA-C	6.08	116.63	107.75
1	AW	56	VAL	N-CA-C	6.08	116.63	107.75
1	An	56	VAL	N-CA-C	6.08	116.63	107.75
2	C8	103	LEU	N-CA-C	6.08	119.45	109.72
2	CK	103	LEU	N-CA-C	6.08	119.45	109.72
2	Cm	103	LEU	N-CA-C	6.08	119.45	109.72
1	A6	56	VAL	N-CA-C	6.08	116.63	107.75
2	CV	103	LEU	N-CA-C	6.08	119.45	109.72
2	CX	103	LEU	N-CA-C	6.08	119.45	109.72
2	Cu	103	LEU	N-CA-C	6.08	119.45	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A3	56	VAL	N-CA-C	6.08	116.63	107.75
1	AI	56	VAL	N-CA-C	6.08	116.63	107.75
2	C1	103	LEU	N-CA-C	6.08	119.45	109.72
2	CR	103	LEU	N-CA-C	6.08	119.45	109.72
2	C9	103	LEU	N-CA-C	6.08	119.45	109.72
2	CW	103	LEU	N-CA-C	6.08	119.45	109.72
2	CG	103	LEU	N-CA-C	6.08	119.44	109.72
2	Cb	103	LEU	N-CA-C	6.08	119.44	109.72
2	Cn	103	LEU	N-CA-C	6.08	119.44	109.72
1	A7	21	PRO	N-CA-C	6.07	124.98	112.47
1	A9	21	PRO	N-CA-C	6.07	124.98	112.47
1	Af	21	PRO	N-CA-C	6.07	124.98	112.47
2	C2	103	LEU	N-CA-C	6.07	119.44	109.72
2	C5	103	LEU	N-CA-C	6.07	119.44	109.72
2	CD	103	LEU	N-CA-C	6.07	119.44	109.72
2	CN	103	LEU	N-CA-C	6.07	119.44	109.72
2	Ce	103	LEU	N-CA-C	6.07	119.44	109.72
1	AC	56	VAL	N-CA-C	6.07	116.61	107.75
2	Cs	103	LEU	N-CA-C	6.07	119.43	109.72
2	CL	103	LEU	N-CA-C	6.07	119.43	109.72
2	Cr	103	LEU	N-CA-C	6.07	119.43	109.72
3	ED	125	VAL	CB-CA-C	-6.07	104.20	111.18
1	AO	56	VAL	N-CA-C	6.07	116.61	107.75
2	C0	103	LEU	N-CA-C	6.07	119.43	109.72
2	C6	103	LEU	N-CA-C	6.07	119.43	109.72
2	C7	103	LEU	N-CA-C	6.07	119.43	109.72
1	AE	56	VAL	N-CA-C	6.07	116.61	107.75
2	Cp	103	LEU	N-CA-C	6.07	119.42	109.72
1	Ac	56	VAL	N-CA-C	6.06	116.60	107.75
1	BI	21	PRO	N-CA-C	6.06	124.96	112.47
1	A4	21	PRO	N-CA-C	6.06	124.96	112.47
2	CO	103	LEU	N-CA-C	6.06	119.42	109.72
2	Cd	103	LEU	N-CA-C	6.06	119.42	109.72
1	AU	21	PRO	N-CA-C	6.06	124.95	112.47
2	CC	103	LEU	N-CA-C	6.06	119.42	109.72
2	Cc	103	LEU	N-CA-C	6.06	119.42	109.72
2	Cj	103	LEU	N-CA-C	6.06	119.42	109.72
1	AE	21	PRO	N-CA-C	6.06	124.95	112.47
1	AH	21	PRO	N-CA-C	6.06	124.95	112.47
1	AV	21	PRO	N-CA-C	6.06	124.95	112.47
1	AY	56	VAL	N-CA-C	6.06	116.59	107.75
1	BA	21	PRO	N-CA-C	6.06	124.95	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ah	21	PRO	N-CA-C	6.06	124.94	112.47
1	BF	21	PRO	N-CA-C	6.06	124.95	112.47
2	CQ	103	LEU	N-CA-C	6.06	119.41	109.72
1	Am	21	PRO	N-CA-C	6.05	124.94	112.47
2	CI	103	LEU	N-CA-C	6.05	119.41	109.72
2	Ct	103	LEU	N-CA-C	6.05	119.41	109.72
1	AO	21	PRO	N-CA-C	6.05	124.94	112.47
1	BD	21	PRO	N-CA-C	6.05	124.94	112.47
1	BF	56	VAL	N-CA-C	6.05	116.59	107.75
2	CS	103	LEU	N-CA-C	6.05	119.40	109.72
2	Cg	103	LEU	N-CA-C	6.05	119.41	109.72
3	Dn	125	VAL	CB-CA-C	-6.05	104.22	111.18
1	A5	21	PRO	N-CA-C	6.05	124.93	112.47
1	AP	56	VAL	N-CA-C	6.05	116.58	107.75
1	Ag	21	PRO	N-CA-C	6.05	124.94	112.47
1	BG	21	PRO	N-CA-C	6.05	124.94	112.47
2	CE	103	LEU	N-CA-C	6.05	119.40	109.72
2	CF	103	LEU	N-CA-C	6.05	119.40	109.72
1	A1	21	PRO	N-CA-C	6.05	124.93	112.47
2	CU	103	LEU	N-CA-C	6.05	119.40	109.72
1	AI	21	PRO	N-CA-C	6.05	124.92	112.47
1	An	21	PRO	N-CA-C	6.05	124.92	112.47
1	BB	21	PRO	N-CA-C	6.05	124.92	112.47
1	Al	21	PRO	N-CA-C	6.04	124.92	112.47
1	A3	21	PRO	N-CA-C	6.04	124.92	112.47
1	AJ	21	PRO	N-CA-C	6.04	124.92	112.47
1	AR	21	PRO	N-CA-C	6.04	124.92	112.47
1	AW	21	PRO	N-CA-C	6.04	124.92	112.47
1	Ad	21	PRO	N-CA-C	6.04	124.92	112.47
2	CB	103	LEU	N-CA-C	6.04	119.39	109.72
1	AC	21	PRO	N-CA-C	6.04	124.92	112.47
1	AQ	21	PRO	N-CA-C	6.04	124.92	112.47
1	Ao	21	PRO	N-CA-C	6.04	124.91	112.47
1	Ae	21	PRO	N-CA-C	6.04	124.91	112.47
1	Ac	21	PRO	N-CA-C	6.04	124.91	112.47
1	AL	21	PRO	N-CA-C	6.04	124.91	112.47
2	CB	187	THR	N-CA-C	-6.04	105.22	112.59
3	Di	125	VAL	CB-CA-C	-6.04	104.24	111.18
1	AA	21	PRO	N-CA-C	6.04	124.90	112.47
1	AN	21	PRO	N-CA-C	6.04	124.90	112.47
1	AT	21	PRO	N-CA-C	6.04	124.91	112.47
1	BE	21	PRO	N-CA-C	6.04	124.91	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A0	21	PRO	N-CA-C	6.03	124.90	112.47
1	AM	21	PRO	N-CA-C	6.03	124.90	112.47
1	AS	21	PRO	N-CA-C	6.03	124.90	112.47
1	AB	21	PRO	N-CA-C	6.03	124.89	112.47
1	AP	21	PRO	N-CA-C	6.03	124.89	112.47
1	Aj	21	PRO	N-CA-C	6.03	124.89	112.47
2	Ci	103	LEU	N-CA-C	6.03	119.37	109.72
2	Co	187	THR	N-CA-C	-6.03	105.23	112.59
2	Cx	103	LEU	N-CA-C	6.03	119.37	109.72
1	BC	21	PRO	N-CA-C	6.03	124.89	112.47
2	Cl	187	THR	N-CA-C	-6.03	105.23	112.59
1	AX	21	PRO	N-CA-C	6.03	124.89	112.47
1	AZ	21	PRO	N-CA-C	6.03	124.89	112.47
1	Ab	21	PRO	N-CA-C	6.03	124.89	112.47
1	Ai	21	PRO	N-CA-C	6.03	124.88	112.47
2	CK	187	THR	N-CA-C	-6.03	105.24	112.59
2	CU	187	THR	N-CA-C	-6.03	105.24	112.59
1	AG	21	PRO	N-CA-C	6.02	124.88	112.47
2	CE	187	THR	N-CA-C	-6.02	105.24	112.59
3	DR	125	VAL	CB-CA-C	-6.02	104.25	111.18
3	Dk	125	VAL	CB-CA-C	-6.02	104.25	111.18
1	A6	21	PRO	N-CA-C	6.02	124.88	112.47
2	C7	187	THR	N-CA-C	-6.02	105.24	112.59
2	CC	187	THR	N-CA-C	-6.02	105.24	112.59
2	Ch	187	THR	N-CA-C	-6.02	105.24	112.59
3	D1	125	VAL	CB-CA-C	-6.02	104.25	111.18
1	Aa	21	PRO	N-CA-C	6.02	124.87	112.47
2	Cr	187	THR	N-CA-C	-6.02	105.24	112.59
3	D2	125	VAL	CB-CA-C	-6.02	104.26	111.18
1	AD	21	PRO	N-CA-C	6.02	124.87	112.47
1	AK	21	PRO	N-CA-C	6.02	124.87	112.47
1	AY	21	PRO	N-CA-C	6.02	124.87	112.47
2	CJ	187	THR	N-CA-C	-6.02	105.25	112.59
3	D9	125	VAL	CB-CA-C	-6.02	104.26	111.18
3	DM	125	VAL	CB-CA-C	-6.02	104.26	111.18
2	CL	187	THR	N-CA-C	-6.02	105.25	112.59
3	DC	125	VAL	CB-CA-C	-6.02	104.26	111.18
3	DV	125	VAL	CB-CA-C	-6.02	104.26	111.18
1	Ak	21	PRO	N-CA-C	6.01	124.86	112.47
2	Ce	187	THR	N-CA-C	-6.01	105.25	112.59
1	AF	21	PRO	N-CA-C	6.01	124.86	112.47
2	CF	187	THR	N-CA-C	-6.01	105.26	112.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cd	187	THR	N-CA-C	-6.01	105.26	112.59
2	C0	187	THR	N-CA-C	-6.01	105.26	112.59
2	C4	187	THR	N-CA-C	-6.01	105.26	112.59
2	CQ	187	THR	N-CA-C	-6.01	105.26	112.59
2	CV	187	THR	N-CA-C	-6.01	105.26	112.59
2	CX	187	THR	N-CA-C	-6.01	105.26	112.59
3	DF	125	VAL	CB-CA-C	-6.01	104.27	111.18
3	Da	125	VAL	CB-CA-C	-6.01	104.27	111.18
3	Dd	125	VAL	CB-CA-C	-6.01	104.27	111.18
3	Dm	125	VAL	CB-CA-C	-6.01	104.27	111.18
1	A8	21	PRO	N-CA-C	6.00	124.84	112.47
2	Cn	187	THR	N-CA-C	-6.00	105.26	112.59
3	D4	125	VAL	CB-CA-C	-6.00	104.27	111.18
3	D8	125	VAL	CB-CA-C	-6.00	104.27	111.18
1	A2	21	PRO	N-CA-C	6.00	124.84	112.47
1	BH	21	PRO	N-CA-C	6.00	124.84	112.47
2	C9	187	THR	N-CA-C	-6.00	105.27	112.59
2	Cm	187	THR	N-CA-C	-6.00	105.27	112.59
2	Cp	187	THR	N-CA-C	-6.00	105.27	112.59
2	Cq	187	THR	N-CA-C	-6.00	105.27	112.59
3	DQ	125	VAL	CB-CA-C	-6.00	104.28	111.18
2	Cc	187	THR	N-CA-C	-6.00	105.27	112.59
3	DL	125	VAL	CB-CA-C	-6.00	104.28	111.18
3	De	125	VAL	CB-CA-C	-6.00	104.28	111.18
2	C8	187	THR	N-CA-C	-6.00	105.28	112.59
2	CH	187	THR	N-CA-C	-6.00	105.27	112.59
2	Cf	187	THR	N-CA-C	-6.00	105.27	112.59
3	DA	125	VAL	CB-CA-C	-6.00	104.28	111.18
3	Dc	125	VAL	CB-CA-C	-6.00	104.28	111.18
2	Cu	187	THR	N-CA-C	-6.00	105.28	112.59
2	CI	187	THR	N-CA-C	-5.99	105.28	112.59
2	CN	187	THR	N-CA-C	-5.99	105.28	112.59
2	CW	187	THR	N-CA-C	-5.99	105.28	112.59
2	Cs	187	THR	N-CA-C	-5.99	105.28	112.59
3	DY	125	VAL	CB-CA-C	-5.99	104.29	111.18
3	DI	125	VAL	CB-CA-C	-5.99	104.29	111.18
2	CA	187	THR	N-CA-C	-5.99	105.28	112.59
2	CT	187	THR	N-CA-C	-5.99	105.28	112.59
2	Ca	187	THR	N-CA-C	-5.99	105.28	112.59
2	Cj	187	THR	N-CA-C	-5.99	105.28	112.59
3	DN	125	VAL	CB-CA-C	-5.99	104.29	111.18
2	CR	187	THR	N-CA-C	-5.99	105.29	112.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Df	125	VAL	CB-CA-C	-5.99	104.30	111.18
2	C3	187	THR	N-CA-C	-5.99	105.29	112.59
3	DK	125	VAL	CB-CA-C	-5.99	104.30	111.18
3	DZ	125	VAL	CB-CA-C	-5.99	104.30	111.18
2	Cg	187	THR	N-CA-C	-5.98	105.29	112.59
2	Ci	187	THR	N-CA-C	-5.98	105.29	112.59
2	Ct	187	THR	N-CA-C	-5.98	105.29	112.59
3	DO	125	VAL	CB-CA-C	-5.98	104.30	111.18
3	D7	125	VAL	CB-CA-C	-5.98	104.30	111.18
3	DB	125	VAL	CB-CA-C	-5.98	104.30	111.18
2	CY	187	THR	N-CA-C	-5.98	105.30	112.59
3	Do	125	VAL	CB-CA-C	-5.98	104.30	111.18
3	DW	125	VAL	CB-CA-C	-5.98	104.31	111.18
2	CS	187	THR	N-CA-C	-5.98	105.30	112.59
2	CZ	187	THR	N-CA-C	-5.98	105.30	112.59
2	Ce	24	ILE	CB-CA-C	-5.97	105.47	111.80
2	CO	187	THR	N-CA-C	-5.97	105.30	112.59
2	Cb	187	THR	N-CA-C	-5.97	105.30	112.59
3	D0	125	VAL	CB-CA-C	-5.97	104.31	111.18
3	DT	125	VAL	CB-CA-C	-5.97	104.31	111.18
3	Dg	125	VAL	CB-CA-C	-5.97	104.31	111.18
3	Dp	125	VAL	CB-CA-C	-5.97	104.31	111.18
3	EE	125	VAL	CB-CA-C	-5.97	104.31	111.18
2	C5	187	THR	N-CA-C	-5.97	105.31	112.59
2	C1	187	THR	N-CA-C	-5.97	105.31	112.59
2	C2	187	THR	N-CA-C	-5.97	105.31	112.59
2	Cv	187	THR	N-CA-C	-5.97	105.31	112.59
2	Cw	187	THR	N-CA-C	-5.96	105.31	112.59
3	DG	125	VAL	CB-CA-C	-5.96	104.32	111.18
3	DP	125	VAL	CB-CA-C	-5.96	104.32	111.18
3	Dr	125	VAL	CB-CA-C	-5.96	104.32	111.18
3	EB	125	VAL	CB-CA-C	-5.96	104.32	111.18
2	Cx	187	THR	N-CA-C	-5.96	105.32	112.59
3	DS	125	VAL	CB-CA-C	-5.96	104.33	111.18
3	Ds	125	VAL	CB-CA-C	-5.96	104.33	111.18
2	CG	24	ILE	CB-CA-C	-5.96	105.48	111.80
2	CK	24	ILE	CB-CA-C	-5.96	105.48	111.80
3	DE	125	VAL	CB-CA-C	-5.96	104.33	111.18
2	CS	24	ILE	CB-CA-C	-5.96	105.49	111.80
3	DD	125	VAL	CB-CA-C	-5.96	104.33	111.18
3	DI	125	VAL	CB-CA-C	-5.96	104.33	111.18
3	DX	125	VAL	CB-CA-C	-5.96	104.33	111.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cv	24	ILE	CB-CA-C	-5.96	105.49	111.80
3	DJ	125	VAL	CB-CA-C	-5.96	104.33	111.18
3	Dh	125	VAL	CB-CA-C	-5.96	104.33	111.18
2	CG	187	THR	N-CA-C	-5.95	105.33	112.59
2	CP	187	THR	N-CA-C	-5.95	105.33	112.59
2	Ck	187	THR	N-CA-C	-5.95	105.33	112.59
3	D6	125	VAL	CB-CA-C	-5.95	104.33	111.18
3	EC	125	VAL	CB-CA-C	-5.95	104.33	111.18
2	CV	24	ILE	CB-CA-C	-5.95	105.49	111.80
3	DH	125	VAL	CB-CA-C	-5.95	104.34	111.18
3	DU	125	VAL	CB-CA-C	-5.95	104.34	111.18
2	CH	24	ILE	CB-CA-C	-5.95	105.50	111.80
2	CN	24	ILE	CB-CA-C	-5.95	105.50	111.80
2	C6	187	THR	N-CA-C	-5.94	105.34	112.59
2	CM	187	THR	N-CA-C	-5.94	105.34	112.59
3	D3	125	VAL	CB-CA-C	-5.94	104.35	111.18
2	CI	24	ILE	CB-CA-C	-5.94	105.50	111.80
2	Cc	24	ILE	CB-CA-C	-5.94	105.51	111.80
2	Co	24	ILE	CB-CA-C	-5.94	105.51	111.80
3	Db	125	VAL	CB-CA-C	-5.94	104.35	111.18
2	C0	24	ILE	CB-CA-C	-5.93	105.51	111.80
2	Cf	24	ILE	CB-CA-C	-5.93	105.51	111.80
2	Cn	24	ILE	CB-CA-C	-5.93	105.51	111.80
2	CD	187	THR	N-CA-C	-5.93	105.36	112.59
2	Cx	58	LEU	CA-CB-CG	5.93	137.05	116.30
3	D5	125	VAL	CB-CA-C	-5.93	104.36	111.18
3	EA	125	VAL	CB-CA-C	-5.93	104.36	111.18
2	CB	58	LEU	CA-CB-CG	5.93	137.05	116.30
2	C2	58	LEU	CA-CB-CG	5.93	137.04	116.30
2	CO	24	ILE	CB-CA-C	-5.93	105.52	111.80
2	CT	24	ILE	CB-CA-C	-5.93	105.52	111.80
2	Cn	58	LEU	CA-CB-CG	5.93	137.04	116.30
3	Dq	21	ASN	N-CA-C	5.93	123.42	110.80
2	CJ	24	ILE	CB-CA-C	-5.92	105.52	111.80
2	CP	24	ILE	CB-CA-C	-5.92	105.52	111.80
2	Cb	24	ILE	CB-CA-C	-5.92	105.52	111.80
3	Dq	125	VAL	CB-CA-C	-5.92	104.37	111.18
2	Ca	24	ILE	CB-CA-C	-5.92	105.52	111.80
2	Ct	24	ILE	CB-CA-C	-5.92	105.52	111.80
2	CC	58	LEU	CA-CB-CG	5.92	137.03	116.30
2	CL	24	ILE	CB-CA-C	-5.92	105.52	111.80
2	Ck	58	LEU	CA-CB-CG	5.92	137.03	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Dj	125	VAL	CB-CA-C	-5.92	104.37	111.18
2	CD	58	LEU	CA-CB-CG	5.92	137.02	116.30
2	C3	58	LEU	CA-CB-CG	5.92	137.01	116.30
2	Cb	58	LEU	CA-CB-CG	5.92	137.02	116.30
2	Cl	58	LEU	CA-CB-CG	5.92	137.01	116.30
2	Cv	58	LEU	CA-CB-CG	5.92	137.02	116.30
2	CF	58	LEU	CA-CB-CG	5.92	137.01	116.30
2	CG	58	LEU	CA-CB-CG	5.92	137.01	116.30
2	Cm	58	LEU	CA-CB-CG	5.92	137.01	116.30
2	C1	58	LEU	CA-CB-CG	5.92	137.00	116.30
2	C3	24	ILE	CB-CA-C	-5.92	105.53	111.80
2	C4	58	LEU	CA-CB-CG	5.91	137.00	116.30
2	C8	24	ILE	CB-CA-C	-5.91	105.53	111.80
2	CH	58	LEU	CA-CB-CG	5.91	137.00	116.30
2	CI	58	LEU	CA-CB-CG	5.91	137.00	116.30
2	CP	58	LEU	CA-CB-CG	5.91	137.00	116.30
2	CW	58	LEU	CA-CB-CG	5.91	136.99	116.30
2	CX	58	LEU	CA-CB-CG	5.91	137.00	116.30
2	Cd	58	LEU	CA-CB-CG	5.91	137.00	116.30
2	Cf	58	LEU	CA-CB-CG	5.91	137.00	116.30
2	Cg	24	ILE	CB-CA-C	-5.91	105.53	111.80
2	Ch	58	LEU	CA-CB-CG	5.91	137.00	116.30
2	Ct	58	LEU	CA-CB-CG	5.91	137.00	116.30
2	Cx	24	ILE	CB-CA-C	-5.91	105.53	111.80
2	C7	58	LEU	CA-CB-CG	5.91	136.99	116.30
2	C9	24	ILE	CB-CA-C	-5.91	105.53	111.80
2	CL	58	LEU	CA-CB-CG	5.91	136.99	116.30
2	CM	58	LEU	CA-CB-CG	5.91	136.99	116.30
1	AQ	212	ARG	N-CA-C	-5.91	97.68	108.02
2	CA	58	LEU	CA-CB-CG	5.91	136.98	116.30
2	CZ	24	ILE	CB-CA-C	-5.91	105.53	111.80
2	CZ	58	LEU	CA-CB-CG	5.91	136.99	116.30
2	Ci	58	LEU	CA-CB-CG	5.91	136.99	116.30
2	Cr	58	LEU	CA-CB-CG	5.91	136.98	116.30
3	Ds	11	SER	N-CA-C	5.91	123.39	110.80
2	C8	58	LEU	CA-CB-CG	5.91	136.98	116.30
2	C9	58	LEU	CA-CB-CG	5.91	136.98	116.30
2	CE	58	LEU	CA-CB-CG	5.91	136.98	116.30
2	CK	58	LEU	CA-CB-CG	5.91	136.98	116.30
2	CV	58	LEU	CA-CB-CG	5.91	136.98	116.30
2	CY	24	ILE	CB-CA-C	-5.91	105.54	111.80
2	Ca	58	LEU	CA-CB-CG	5.91	136.98	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cg	58	LEU	CA-CB-CG	5.91	136.98	116.30
2	Cp	24	ILE	CB-CA-C	-5.91	105.54	111.80
2	Cq	58	LEU	CA-CB-CG	5.91	136.98	116.30
2	Cu	24	ILE	CB-CA-C	-5.91	105.54	111.80
3	DV	11	SER	N-CA-C	5.91	123.38	110.80
3	Dd	21	ASN	N-CA-C	5.91	123.38	110.80
2	CB	24	ILE	CB-CA-C	-5.91	105.54	111.80
2	CQ	58	LEU	CA-CB-CG	5.91	136.98	116.30
3	DY	21	ASN	N-CA-C	5.91	123.38	110.80
3	Dg	11	SER	N-CA-C	5.91	123.38	110.80
2	C5	24	ILE	CB-CA-C	-5.91	105.54	111.80
2	C5	58	LEU	CA-CB-CG	5.91	136.97	116.30
2	C6	58	LEU	CA-CB-CG	5.91	136.97	116.30
2	CJ	58	LEU	CA-CB-CG	5.91	136.97	116.30
2	CY	58	LEU	CA-CB-CG	5.91	136.97	116.30
2	Co	58	LEU	CA-CB-CG	5.91	136.97	116.30
3	D6	11	SER	N-CA-C	5.91	123.38	110.80
3	DZ	11	SER	N-CA-C	5.91	123.38	110.80
2	CR	58	LEU	CA-CB-CG	5.90	136.96	116.30
2	CS	58	LEU	CA-CB-CG	5.90	136.96	116.30
2	Ce	58	LEU	CA-CB-CG	5.90	136.96	116.30
2	Cs	58	LEU	CA-CB-CG	5.90	136.96	116.30
3	DF	21	ASN	N-CA-C	5.90	123.37	110.80
3	DR	11	SER	N-CA-C	5.90	123.37	110.80
3	Da	21	ASN	N-CA-C	5.90	123.37	110.80
3	EA	21	ASN	N-CA-C	5.90	123.37	110.80
3	ED	21	ASN	N-CA-C	5.90	123.37	110.80
2	CO	58	LEU	CA-CB-CG	5.90	136.95	116.30
2	Cp	58	LEU	CA-CB-CG	5.90	136.95	116.30
3	D5	11	SER	N-CA-C	5.90	123.37	110.80
3	DG	11	SER	N-CA-C	5.90	123.37	110.80
3	DM	11	SER	N-CA-C	5.90	123.37	110.80
3	DQ	11	SER	N-CA-C	5.90	123.37	110.80
3	Db	21	ASN	N-CA-C	5.90	123.37	110.80
2	C0	58	LEU	CA-CB-CG	5.90	136.95	116.30
3	D1	21	ASN	N-CA-C	5.90	123.36	110.80
3	D5	21	ASN	N-CA-C	5.90	123.36	110.80
3	DE	11	SER	N-CA-C	5.90	123.36	110.80
2	CM	24	ILE	CB-CA-C	-5.90	105.55	111.80
2	CN	58	LEU	CA-CB-CG	5.90	136.94	116.30
2	Cc	58	LEU	CA-CB-CG	5.90	136.94	116.30
2	Cm	24	ILE	CB-CA-C	-5.90	105.55	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DO	11	SER	N-CA-C	5.90	123.36	110.80
3	DY	11	SER	N-CA-C	5.90	123.36	110.80
3	Db	11	SER	N-CA-C	5.90	123.36	110.80
2	CT	58	LEU	CA-CB-CG	5.90	136.94	116.30
2	Cu	58	LEU	CA-CB-CG	5.90	136.94	116.30
3	D8	11	SER	N-CA-C	5.90	123.36	110.80
3	D8	21	ASN	N-CA-C	5.90	123.36	110.80
3	DP	11	SER	N-CA-C	5.90	123.36	110.80
2	Cj	58	LEU	CA-CB-CG	5.89	136.93	116.30
3	D0	11	SER	N-CA-C	5.89	123.36	110.80
3	DL	11	SER	N-CA-C	5.89	123.35	110.80
3	Do	11	SER	N-CA-C	5.89	123.36	110.80
2	CU	58	LEU	CA-CB-CG	5.89	136.93	116.30
2	Cr	24	ILE	CB-CA-C	-5.89	105.56	111.80
2	Cw	58	LEU	CA-CB-CG	5.89	136.93	116.30
3	DZ	21	ASN	N-CA-C	5.89	123.35	110.80
3	Dj	21	ASN	N-CA-C	5.89	123.35	110.80
3	Dk	21	ASN	N-CA-C	5.89	123.35	110.80
2	CA	24	ILE	CB-CA-C	-5.89	105.56	111.80
3	D2	21	ASN	N-CA-C	5.89	123.35	110.80
3	DX	11	SER	N-CA-C	5.89	123.35	110.80
3	Dq	11	SER	N-CA-C	5.89	123.35	110.80
1	Ab	212	ARG	N-CA-C	-5.89	97.72	108.02
1	Ao	212	ARG	N-CA-C	-5.89	97.71	108.02
3	D4	21	ASN	N-CA-C	5.89	123.34	110.80
3	D9	21	ASN	N-CA-C	5.89	123.34	110.80
3	DA	21	ASN	N-CA-C	5.89	123.34	110.80
3	DF	11	SER	N-CA-C	5.89	123.34	110.80
3	DP	21	ASN	N-CA-C	5.89	123.35	110.80
3	De	21	ASN	N-CA-C	5.89	123.34	110.80
3	DI	21	ASN	N-CA-C	5.89	123.34	110.80
3	Dn	21	ASN	N-CA-C	5.89	123.35	110.80
3	Do	21	ASN	N-CA-C	5.89	123.35	110.80
1	AT	212	ARG	N-CA-C	-5.89	97.72	108.02
1	AW	212	ARG	N-CA-C	-5.89	97.72	108.02
2	Cj	24	ILE	CB-CA-C	-5.89	105.56	111.80
3	DD	11	SER	N-CA-C	5.89	123.34	110.80
3	Dc	21	ASN	N-CA-C	5.89	123.34	110.80
2	CE	24	ILE	CB-CA-C	-5.89	105.56	111.80
2	Cd	24	ILE	CB-CA-C	-5.89	105.56	111.80
3	D7	11	SER	N-CA-C	5.89	123.34	110.80
3	D9	11	SER	N-CA-C	5.89	123.34	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DB	11	SER	N-CA-C	5.89	123.34	110.80
3	DS	11	SER	N-CA-C	5.89	123.34	110.80
3	Df	21	ASN	N-CA-C	5.89	123.34	110.80
3	Dj	11	SER	N-CA-C	5.89	123.34	110.80
3	Dm	11	SER	N-CA-C	5.89	123.34	110.80
3	Dp	21	ASN	N-CA-C	5.89	123.34	110.80
3	Dr	11	SER	N-CA-C	5.89	123.34	110.80
1	Aa	212	ARG	N-CA-C	-5.88	97.72	108.02
2	CC	24	ILE	CB-CA-C	-5.88	105.56	111.80
2	CQ	24	ILE	CB-CA-C	-5.88	105.56	111.80
2	CW	24	ILE	CB-CA-C	-5.88	105.56	111.80
3	DK	11	SER	N-CA-C	5.88	123.33	110.80
3	EA	11	SER	N-CA-C	5.88	123.34	110.80
1	A1	212	ARG	N-CA-C	-5.88	97.72	108.02
3	De	11	SER	N-CA-C	5.88	123.33	110.80
3	Ds	21	ASN	N-CA-C	5.88	123.33	110.80
1	AI	212	ARG	N-CA-C	-5.88	97.73	108.02
1	AX	212	ARG	N-CA-C	-5.88	97.73	108.02
3	DI	21	ASN	N-CA-C	5.88	123.33	110.80
3	Da	11	SER	N-CA-C	5.88	123.33	110.80
3	EB	11	SER	N-CA-C	5.88	123.33	110.80
2	Cw	24	ILE	CB-CA-C	-5.88	105.57	111.80
3	D2	11	SER	N-CA-C	5.88	123.32	110.80
3	D3	11	SER	N-CA-C	5.88	123.32	110.80
1	A2	212	ARG	N-CA-C	-5.88	97.73	108.02
1	Ad	212	ARG	N-CA-C	-5.88	97.73	108.02
1	Ak	212	ARG	N-CA-C	-5.88	97.73	108.02
2	CF	24	ILE	CB-CA-C	-5.88	105.57	111.80
3	DH	21	ASN	N-CA-C	5.88	123.32	110.80
3	DV	21	ASN	N-CA-C	5.88	123.32	110.80
3	Dd	11	SER	N-CA-C	5.88	123.32	110.80
3	Di	21	ASN	N-CA-C	5.88	123.32	110.80
3	EE	21	ASN	N-CA-C	5.88	123.32	110.80
1	A0	212	ARG	N-CA-C	-5.88	97.74	108.02
2	Ch	24	ILE	CB-CA-C	-5.88	105.57	111.80
3	DE	21	ASN	N-CA-C	5.88	123.32	110.80
3	DL	21	ASN	N-CA-C	5.88	123.32	110.80
3	DU	11	SER	N-CA-C	5.88	123.32	110.80
3	Dc	11	SER	N-CA-C	5.88	123.32	110.80
3	Dh	21	ASN	N-CA-C	5.88	123.32	110.80
3	EB	21	ASN	N-CA-C	5.88	123.31	110.80
3	EE	11	SER	N-CA-C	5.88	123.32	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AO	212	ARG	N-CA-C	-5.88	97.74	108.02
3	DN	21	ASN	N-CA-C	5.88	123.31	110.80
3	DW	21	ASN	N-CA-C	5.88	123.31	110.80
3	Dr	21	ASN	N-CA-C	5.88	123.31	110.80
1	Ac	212	ARG	N-CA-C	-5.87	97.74	108.02
1	Af	212	ARG	N-CA-C	-5.87	97.74	108.02
1	Al	212	ARG	N-CA-C	-5.87	97.74	108.02
1	BB	212	ARG	N-CA-C	-5.87	97.74	108.02
1	BG	212	ARG	N-CA-C	-5.87	97.74	108.02
2	CD	24	ILE	CB-CA-C	-5.87	105.57	111.80
2	CX	24	ILE	CB-CA-C	-5.87	105.58	111.80
2	Cs	24	ILE	CB-CA-C	-5.87	105.57	111.80
3	DI	11	SER	N-CA-C	5.87	123.31	110.80
3	DR	21	ASN	N-CA-C	5.87	123.31	110.80
1	AC	212	ARG	N-CA-C	-5.87	97.75	108.02
1	AK	212	ARG	N-CA-C	-5.87	97.75	108.02
1	AN	212	ARG	N-CA-C	-5.87	97.75	108.02
1	Ae	212	ARG	N-CA-C	-5.87	97.75	108.02
2	Ci	24	ILE	CB-CA-C	-5.87	105.58	111.80
2	Cq	24	ILE	CB-CA-C	-5.87	105.58	111.80
3	D4	11	SER	N-CA-C	5.87	123.31	110.80
3	DA	11	SER	N-CA-C	5.87	123.31	110.80
3	DG	21	ASN	N-CA-C	5.87	123.31	110.80
3	DK	21	ASN	N-CA-C	5.87	123.31	110.80
3	DU	21	ASN	N-CA-C	5.87	123.31	110.80
3	EC	21	ASN	N-CA-C	5.87	123.31	110.80
3	DJ	11	SER	N-CA-C	5.87	123.30	110.80
3	DM	21	ASN	N-CA-C	5.87	123.30	110.80
3	DT	11	SER	N-CA-C	5.87	123.30	110.80
1	A4	212	ARG	N-CA-C	-5.87	97.75	108.02
1	AJ	212	ARG	N-CA-C	-5.87	97.75	108.02
3	D0	21	ASN	N-CA-C	5.87	123.30	110.80
3	DC	21	ASN	N-CA-C	5.87	123.30	110.80
3	Dg	21	ASN	N-CA-C	5.87	123.30	110.80
2	C2	24	ILE	CB-CA-C	-5.87	105.58	111.80
2	C4	24	ILE	CB-CA-C	-5.87	105.58	111.80
3	D3	21	ASN	N-CA-C	5.87	123.30	110.80
3	D6	21	ASN	N-CA-C	5.87	123.30	110.80
3	DN	11	SER	N-CA-C	5.87	123.30	110.80
3	DQ	21	ASN	N-CA-C	5.87	123.30	110.80
1	An	212	ARG	N-CA-C	-5.87	97.76	108.02
3	DD	21	ASN	N-CA-C	5.87	123.30	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DO	21	ASN	N-CA-C	5.87	123.29	110.80
3	DX	21	ASN	N-CA-C	5.87	123.30	110.80
3	Dn	11	SER	N-CA-C	5.87	123.29	110.80
3	EC	11	SER	N-CA-C	5.87	123.29	110.80
1	AZ	212	ARG	N-CA-C	-5.86	97.76	108.02
3	D1	11	SER	N-CA-C	5.86	123.29	110.80
3	DB	21	ASN	N-CA-C	5.86	123.29	110.80
3	Dk	11	SER	N-CA-C	5.86	123.29	110.80
1	AA	212	ARG	N-CA-C	-5.86	97.76	108.02
3	D7	21	ASN	N-CA-C	5.86	123.29	110.80
3	DJ	21	ASN	N-CA-C	5.86	123.28	110.80
1	AM	212	ARG	N-CA-C	-5.86	97.77	108.02
1	AS	212	ARG	N-CA-C	-5.86	97.77	108.02
1	Ac	239	PHE	CB-CA-C	-5.86	102.10	109.31
3	DC	11	SER	N-CA-C	5.86	123.28	110.80
3	DS	21	ASN	N-CA-C	5.86	123.28	110.80
3	DW	11	SER	N-CA-C	5.86	123.28	110.80
3	Di	11	SER	N-CA-C	5.86	123.28	110.80
3	Dp	11	SER	N-CA-C	5.86	123.28	110.80
1	A3	212	ARG	N-CA-C	-5.86	97.77	108.02
1	A5	212	ARG	N-CA-C	-5.86	97.77	108.02
1	BC	212	ARG	N-CA-C	-5.86	97.77	108.02
3	DT	21	ASN	N-CA-C	5.86	123.28	110.80
3	Df	11	SER	N-CA-C	5.86	123.28	110.80
3	Dh	11	SER	N-CA-C	5.86	123.28	110.80
3	ED	11	SER	N-CA-C	5.86	123.28	110.80
1	AV	239	PHE	CB-CA-C	-5.86	102.11	109.31
1	BF	212	ARG	N-CA-C	-5.86	97.77	108.02
1	A7	212	ARG	N-CA-C	-5.85	97.78	108.02
1	A8	212	ARG	N-CA-C	-5.85	97.78	108.02
1	AD	212	ARG	N-CA-C	-5.85	97.78	108.02
1	AG	212	ARG	N-CA-C	-5.85	97.78	108.02
1	AU	212	ARG	N-CA-C	-5.85	97.78	108.02
1	BE	212	ARG	N-CA-C	-5.85	97.78	108.02
3	Dm	21	ASN	N-CA-C	5.85	123.26	110.80
1	AH	212	ARG	N-CA-C	-5.85	97.78	108.02
1	Ah	212	ARG	N-CA-C	-5.85	97.78	108.02
1	BA	212	ARG	N-CA-C	-5.85	97.78	108.02
1	AE	212	ARG	N-CA-C	-5.85	97.78	108.02
1	AL	212	ARG	N-CA-C	-5.85	97.78	108.02
1	AP	212	ARG	N-CA-C	-5.85	97.78	108.02
1	BH	212	ARG	N-CA-C	-5.85	97.78	108.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DH	11	SER	N-CA-C	5.85	123.26	110.80
1	AR	212	ARG	N-CA-C	-5.85	97.79	108.02
1	AX	239	PHE	CB-CA-C	-5.85	102.12	109.31
1	A6	212	ARG	N-CA-C	-5.84	97.79	108.02
1	A9	212	ARG	N-CA-C	-5.84	97.79	108.02
1	Ai	212	ARG	N-CA-C	-5.84	97.79	108.02
2	CR	24	ILE	CB-CA-C	-5.84	105.60	111.80
1	AB	212	ARG	N-CA-C	-5.84	97.80	108.02
1	Aj	212	ARG	N-CA-C	-5.84	97.80	108.02
2	CU	24	ILE	CB-CA-C	-5.84	105.61	111.80
2	Cl	24	ILE	CB-CA-C	-5.84	105.61	111.80
1	AH	239	PHE	CB-CA-C	-5.84	102.13	109.31
1	AY	212	ARG	N-CA-C	-5.84	97.80	108.02
1	BD	212	ARG	N-CA-C	-5.84	97.80	108.02
3	DI	11	SER	N-CA-C	5.84	123.24	110.80
2	C1	24	ILE	CB-CA-C	-5.84	105.61	111.80
1	Ag	212	ARG	N-CA-C	-5.84	97.81	108.02
2	Ck	24	ILE	CB-CA-C	-5.84	105.61	111.80
1	AF	212	ARG	N-CA-C	-5.83	97.81	108.02
1	A7	239	PHE	CB-CA-C	-5.83	102.13	109.31
1	Am	212	ARG	N-CA-C	-5.83	97.81	108.02
1	Ae	239	PHE	CB-CA-C	-5.83	102.14	109.31
4	Fc	32	ASN	CB-CA-C	-5.83	107.11	114.40
1	A1	239	PHE	CB-CA-C	-5.83	102.14	109.31
1	AQ	239	PHE	CB-CA-C	-5.83	102.14	109.31
1	A3	239	PHE	CB-CA-C	-5.83	102.14	109.31
3	D7	117	LYS	N-CA-C	-5.83	100.20	109.23
4	FK	32	ASN	CB-CA-C	-5.83	107.12	114.40
1	A6	239	PHE	CB-CA-C	-5.83	102.14	109.31
1	AM	239	PHE	CB-CA-C	-5.83	102.14	109.31
4	F5	32	ASN	CB-CA-C	-5.83	107.12	114.40
4	Fm	32	ASN	CB-CA-C	-5.83	107.12	114.40
1	AV	212	ARG	N-CA-C	-5.82	97.83	108.02
1	Ak	239	PHE	CB-CA-C	-5.82	102.15	109.31
2	C6	24	ILE	CB-CA-C	-5.82	105.63	111.80
2	C7	24	ILE	CB-CA-C	-5.82	105.63	111.80
4	FD	32	ASN	CB-CA-C	-5.82	107.12	114.40
1	AN	239	PHE	CB-CA-C	-5.82	102.15	109.31
1	Ag	239	PHE	CB-CA-C	-5.82	102.15	109.31
1	BI	212	ARG	N-CA-C	-5.82	97.83	108.02
4	FQ	32	ASN	CB-CA-C	-5.82	107.12	114.40
1	AG	239	PHE	CB-CA-C	-5.82	102.15	109.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DV	117	LYS	N-CA-C	-5.82	100.21	109.23
4	F7	32	ASN	CB-CA-C	-5.82	107.13	114.40
4	FF	32	ASN	CB-CA-C	-5.82	107.13	114.40
1	AK	239	PHE	CB-CA-C	-5.82	102.16	109.31
1	AP	239	PHE	CB-CA-C	-5.82	102.16	109.31
1	AR	239	PHE	CB-CA-C	-5.82	102.16	109.31
4	FN	32	ASN	CB-CA-C	-5.82	107.13	114.40
1	AU	239	PHE	CB-CA-C	-5.81	102.16	109.31
1	Al	239	PHE	CB-CA-C	-5.81	102.16	109.31
1	BG	239	PHE	CB-CA-C	-5.81	102.16	109.31
4	FA	32	ASN	CB-CA-C	-5.81	107.13	114.40
1	An	239	PHE	CB-CA-C	-5.81	102.16	109.31
3	Dn	117	LYS	N-CA-C	-5.81	100.22	109.23
3	DX	117	LYS	N-CA-C	-5.81	100.23	109.23
4	FP	32	ASN	CB-CA-C	-5.81	107.14	114.40
4	F2	32	ASN	CB-CA-C	-5.81	107.14	114.40
4	FT	32	ASN	CB-CA-C	-5.81	107.14	114.40
4	Fq	32	ASN	CB-CA-C	-5.81	107.14	114.40
3	DN	117	LYS	N-CA-C	-5.81	100.23	109.23
3	Dl	117	LYS	N-CA-C	-5.81	100.23	109.23
4	Fv	32	ASN	CB-CA-C	-5.81	107.14	114.40
3	D1	117	LYS	N-CA-C	-5.80	100.23	109.23
4	F0	32	ASN	CB-CA-C	-5.80	107.14	114.40
4	F1	32	ASN	CB-CA-C	-5.80	107.14	114.40
4	FV	32	ASN	CB-CA-C	-5.80	107.14	114.40
4	Fn	32	ASN	CB-CA-C	-5.80	107.14	114.40
4	F6	32	ASN	CB-CA-C	-5.80	107.15	114.40
1	Ah	239	PHE	CB-CA-C	-5.80	102.17	109.31
3	DI	117	LYS	N-CA-C	-5.80	100.24	109.23
4	FH	32	ASN	CB-CA-C	-5.80	107.15	114.40
4	FS	32	ASN	CB-CA-C	-5.80	107.15	114.40
1	A8	239	PHE	CB-CA-C	-5.80	102.18	109.31
1	Ab	239	PHE	CB-CA-C	-5.80	102.18	109.31
3	Dq	117	LYS	N-CA-C	-5.80	100.24	109.23
1	AS	239	PHE	CB-CA-C	-5.80	102.18	109.31
4	F9	32	ASN	CB-CA-C	-5.80	107.15	114.40
4	Fr	32	ASN	CB-CA-C	-5.80	107.15	114.40
4	Fw	32	ASN	CB-CA-C	-5.80	107.15	114.40
1	BH	239	PHE	CB-CA-C	-5.80	102.18	109.31
3	D2	117	LYS	N-CA-C	-5.80	100.25	109.23
3	DH	117	LYS	N-CA-C	-5.80	100.24	109.23
3	Dp	117	LYS	N-CA-C	-5.80	100.25	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	FR	32	ASN	CB-CA-C	-5.80	107.15	114.40
4	FU	32	ASN	CB-CA-C	-5.80	107.16	114.40
4	FW	32	ASN	CB-CA-C	-5.80	107.15	114.40
1	A4	239	PHE	CB-CA-C	-5.79	102.18	109.31
1	AL	239	PHE	CB-CA-C	-5.79	102.18	109.31
1	AI	239	PHE	CB-CA-C	-5.79	102.18	109.31
1	AZ	239	PHE	CB-CA-C	-5.79	102.18	109.31
3	DJ	80	LEU	N-CA-C	5.79	123.14	110.80
3	Da	117	LYS	N-CA-C	-5.79	100.25	109.23
3	EC	117	LYS	N-CA-C	-5.79	100.25	109.23
4	FY	32	ASN	CB-CA-C	-5.79	107.16	114.40
1	A9	239	PHE	CB-CA-C	-5.79	102.19	109.31
1	BF	239	PHE	CB-CA-C	-5.79	102.19	109.31
3	Dr	117	LYS	N-CA-C	-5.79	100.25	109.23
1	AW	239	PHE	CB-CA-C	-5.79	102.19	109.31
1	AJ	239	PHE	CB-CA-C	-5.79	102.19	109.31
1	Ad	239	PHE	CB-CA-C	-5.79	102.19	109.31
1	BB	239	PHE	CB-CA-C	-5.79	102.19	109.31
1	BE	239	PHE	CB-CA-C	-5.79	102.19	109.31
4	F4	32	ASN	CB-CA-C	-5.79	107.17	114.40
4	Fx	32	ASN	CB-CA-C	-5.79	107.17	114.40
3	D9	117	LYS	N-CA-C	-5.79	100.26	109.23
3	Dk	117	LYS	N-CA-C	-5.79	100.26	109.23
4	Fe	32	ASN	CB-CA-C	-5.79	107.17	114.40
1	A5	239	PHE	CB-CA-C	-5.79	102.19	109.31
3	Df	117	LYS	N-CA-C	-5.79	100.26	109.23
3	Dm	117	LYS	N-CA-C	-5.79	100.26	109.23
4	Fg	32	ASN	CB-CA-C	-5.79	107.17	114.40
1	A0	239	PHE	CB-CA-C	-5.78	102.20	109.31
3	DJ	117	LYS	N-CA-C	-5.78	100.27	109.23
3	EE	117	LYS	N-CA-C	-5.78	100.27	109.23
4	FC	32	ASN	CB-CA-C	-5.78	107.17	114.40
4	Fl	32	ASN	CB-CA-C	-5.78	107.17	114.40
4	Fs	32	ASN	CB-CA-C	-5.78	107.17	114.40
1	AB	239	PHE	CB-CA-C	-5.78	102.20	109.31
1	Aj	239	PHE	CB-CA-C	-5.78	102.20	109.31
1	BD	239	PHE	CB-CA-C	-5.78	102.20	109.31
3	DB	117	LYS	N-CA-C	-5.78	100.27	109.23
3	Do	117	LYS	N-CA-C	-5.78	100.27	109.23
4	FB	32	ASN	CB-CA-C	-5.78	107.17	114.40
4	Fd	32	ASN	CB-CA-C	-5.78	107.17	114.40
3	DV	80	LEU	N-CA-C	5.78	123.11	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AC	239	PHE	CB-CA-C	-5.78	102.20	109.31
1	Am	239	PHE	CB-CA-C	-5.78	102.20	109.31
3	DF	80	LEU	N-CA-C	5.78	123.11	110.80
4	FJ	32	ASN	CB-CA-C	-5.78	107.18	114.40
4	FX	32	ASN	CB-CA-C	-5.78	107.18	114.40
4	Ff	32	ASN	CB-CA-C	-5.78	107.18	114.40
1	Af	239	PHE	CB-CA-C	-5.78	102.21	109.31
1	BI	239	PHE	CB-CA-C	-5.78	102.21	109.31
3	D2	80	LEU	N-CA-C	5.78	123.10	110.80
3	D3	117	LYS	N-CA-C	-5.78	100.28	109.23
3	DO	80	LEU	N-CA-C	5.78	123.10	110.80
3	Dc	117	LYS	N-CA-C	-5.78	100.28	109.23
3	Dd	117	LYS	N-CA-C	-5.78	100.28	109.23
3	Dh	117	LYS	N-CA-C	-5.78	100.28	109.23
3	EB	117	LYS	N-CA-C	-5.78	100.28	109.23
4	Fh	32	ASN	CB-CA-C	-5.78	107.18	114.40
1	A2	239	PHE	CB-CA-C	-5.77	102.21	109.31
3	DG	117	LYS	N-CA-C	-5.77	100.28	109.23
3	DR	80	LEU	N-CA-C	5.77	123.10	110.80
3	ED	117	LYS	N-CA-C	-5.77	100.28	109.23
4	Fo	32	ASN	CB-CA-C	-5.77	107.18	114.40
1	AO	239	PHE	CB-CA-C	-5.77	102.21	109.31
1	Aa	239	PHE	CB-CA-C	-5.77	102.21	109.31
1	Ao	239	PHE	CB-CA-C	-5.77	102.21	109.31
3	DA	117	LYS	N-CA-C	-5.77	100.28	109.23
3	DL	117	LYS	N-CA-C	-5.77	100.28	109.23
3	EC	80	LEU	N-CA-C	5.77	123.10	110.80
4	Ft	32	ASN	CB-CA-C	-5.77	107.19	114.40
3	DM	117	LYS	N-CA-C	-5.77	100.29	109.23
3	DO	117	LYS	N-CA-C	-5.77	100.28	109.23
3	Dj	117	LYS	N-CA-C	-5.77	100.28	109.23
4	FM	32	ASN	CB-CA-C	-5.77	107.19	114.40
3	D0	117	LYS	N-CA-C	-5.77	100.29	109.23
3	DE	117	LYS	N-CA-C	-5.77	100.29	109.23
3	ED	80	LEU	N-CA-C	5.77	123.09	110.80
4	Fa	32	ASN	CB-CA-C	-5.77	107.19	114.40
1	AA	239	PHE	CB-CA-C	-5.77	102.22	109.31
1	Ai	239	PHE	CB-CA-C	-5.77	102.22	109.31
3	DF	117	LYS	N-CA-C	-5.77	100.29	109.23
3	DN	80	LEU	N-CA-C	5.77	123.09	110.80
3	DX	80	LEU	N-CA-C	5.77	123.08	110.80
4	Fk	32	ASN	CB-CA-C	-5.77	107.19	114.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DH	80	LEU	N-CA-C	5.77	123.08	110.80
3	Dn	80	LEU	N-CA-C	5.77	123.08	110.80
3	D9	80	LEU	N-CA-C	5.76	123.08	110.80
3	DG	80	LEU	N-CA-C	5.76	123.08	110.80
3	Dg	117	LYS	N-CA-C	-5.76	100.30	109.23
3	EA	80	LEU	N-CA-C	5.76	123.08	110.80
3	DD	117	LYS	N-CA-C	-5.76	100.30	109.23
3	DP	117	LYS	N-CA-C	-5.76	100.30	109.23
3	DW	80	LEU	N-CA-C	5.76	123.08	110.80
3	EA	117	LYS	N-CA-C	-5.76	100.30	109.23
3	D6	117	LYS	N-CA-C	-5.76	100.30	109.23
3	Di	80	LEU	N-CA-C	5.76	123.07	110.80
4	FG	32	ASN	CB-CA-C	-5.76	107.20	114.40
4	FZ	32	ASN	CB-CA-C	-5.76	107.20	114.40
4	Fj	32	ASN	CB-CA-C	-5.76	107.20	114.40
3	D0	80	LEU	N-CA-C	5.76	123.07	110.80
3	Da	80	LEU	N-CA-C	5.76	123.07	110.80
3	Dj	80	LEU	N-CA-C	5.76	123.07	110.80
3	Dk	80	LEU	N-CA-C	5.76	123.07	110.80
3	Do	80	LEU	N-CA-C	5.76	123.07	110.80
4	FE	32	ASN	CB-CA-C	-5.76	107.20	114.40
1	BC	239	PHE	CB-CA-C	-5.76	102.23	109.31
3	DA	80	LEU	N-CA-C	5.76	123.06	110.80
3	DZ	80	LEU	N-CA-C	5.76	123.06	110.80
3	Dl	80	LEU	N-CA-C	5.76	123.07	110.80
3	Dq	80	LEU	N-CA-C	5.76	123.06	110.80
4	FI	32	ASN	CB-CA-C	-5.76	107.20	114.40
3	D1	80	LEU	N-CA-C	5.76	123.06	110.80
3	D3	80	LEU	N-CA-C	5.76	123.06	110.80
3	DS	117	LYS	N-CA-C	-5.76	100.31	109.23
3	Db	117	LYS	N-CA-C	-5.76	100.31	109.23
3	Dp	80	LEU	N-CA-C	5.76	123.06	110.80
4	Fu	32	ASN	CB-CA-C	-5.76	107.20	114.40
3	DQ	80	LEU	N-CA-C	5.75	123.06	110.80
4	F3	32	ASN	CB-CA-C	-5.75	107.21	114.40
4	F8	32	ASN	CB-CA-C	-5.75	107.21	114.40
1	AF	239	PHE	CB-CA-C	-5.75	102.23	109.31
3	D7	80	LEU	N-CA-C	5.75	123.06	110.80
3	DD	80	LEU	N-CA-C	5.75	123.06	110.80
3	DI	80	LEU	N-CA-C	5.75	123.05	110.80
3	DK	117	LYS	N-CA-C	-5.75	100.31	109.23
3	DS	80	LEU	N-CA-C	5.75	123.06	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	De	117	LYS	N-CA-C	-5.75	100.31	109.23
1	AY	239	PHE	CB-CA-C	-5.75	102.23	109.31
3	D4	117	LYS	N-CA-C	-5.75	100.32	109.23
3	DK	80	LEU	N-CA-C	5.75	123.05	110.80
3	DY	80	LEU	N-CA-C	5.75	123.05	110.80
3	EE	80	LEU	N-CA-C	5.75	123.05	110.80
4	FO	32	ASN	CB-CA-C	-5.75	107.21	114.40
3	D6	80	LEU	N-CA-C	5.75	123.05	110.80
3	DL	80	LEU	N-CA-C	5.75	123.05	110.80
3	Di	117	LYS	N-CA-C	-5.75	100.32	109.23
3	Dm	80	LEU	N-CA-C	5.75	123.05	110.80
4	Fb	32	ASN	CB-CA-C	-5.75	107.21	114.40
1	AT	239	PHE	CB-CA-C	-5.75	102.24	109.31
3	DW	117	LYS	N-CA-C	-5.75	100.32	109.23
3	Db	80	LEU	N-CA-C	5.75	123.04	110.80
3	D5	117	LYS	N-CA-C	-5.75	100.32	109.23
3	DC	80	LEU	N-CA-C	5.75	123.04	110.80
3	DM	80	LEU	N-CA-C	5.75	123.04	110.80
3	DQ	117	LYS	N-CA-C	-5.75	100.32	109.23
3	Dr	80	LEU	N-CA-C	5.75	123.04	110.80
3	DP	80	LEU	N-CA-C	5.75	123.04	110.80
3	DT	117	LYS	N-CA-C	-5.75	100.33	109.23
3	DY	117	LYS	N-CA-C	-5.75	100.33	109.23
4	Fi	32	ASN	CB-CA-C	-5.75	107.22	114.40
4	Fp	32	ASN	CB-CA-C	-5.75	107.22	114.40
3	Dc	80	LEU	N-CA-C	5.74	123.03	110.80
1	AD	239	PHE	CB-CA-C	-5.74	102.25	109.31
3	DU	117	LYS	N-CA-C	-5.74	100.33	109.23
3	Dg	80	LEU	N-CA-C	5.74	123.03	110.80
1	BA	239	PHE	CB-CA-C	-5.74	102.25	109.31
3	DU	80	LEU	N-CA-C	5.74	123.03	110.80
3	De	80	LEU	N-CA-C	5.74	123.03	110.80
3	Df	80	LEU	N-CA-C	5.74	123.03	110.80
4	FL	32	ASN	CB-CA-C	-5.74	107.22	114.40
1	AE	239	PHE	CB-CA-C	-5.74	102.25	109.31
3	D8	117	LYS	N-CA-C	-5.74	100.34	109.23
3	DT	80	LEU	N-CA-C	5.74	123.02	110.80
3	D4	80	LEU	N-CA-C	5.74	123.02	110.80
3	DB	80	LEU	N-CA-C	5.74	123.02	110.80
3	DE	80	LEU	N-CA-C	5.74	123.02	110.80
3	DZ	117	LYS	N-CA-C	-5.74	100.34	109.23
3	DC	117	LYS	N-CA-C	-5.73	100.34	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Ds	117	LYS	N-CA-C	-5.73	100.34	109.23
3	EB	80	LEU	N-CA-C	5.73	123.00	110.80
3	DR	117	LYS	N-CA-C	-5.73	100.35	109.23
3	Dh	80	LEU	N-CA-C	5.73	123.00	110.80
3	Dd	80	LEU	N-CA-C	5.72	123.00	110.80
3	D8	80	LEU	N-CA-C	5.72	122.99	110.80
1	AQ	34	LEU	N-CA-C	5.72	120.38	113.17
1	Am	34	LEU	N-CA-C	5.72	120.37	113.17
3	D5	80	LEU	N-CA-C	5.72	122.98	110.80
3	Ds	80	LEU	N-CA-C	5.72	122.98	110.80
1	Al	34	LEU	N-CA-C	5.71	120.36	113.17
1	AO	34	LEU	N-CA-C	5.70	120.34	113.17
2	CE	23	ILE	N-CA-C	5.70	114.81	106.55
1	Aa	34	LEU	N-CA-C	5.69	120.34	113.17
1	BG	34	LEU	N-CA-C	5.69	120.34	113.17
2	CL	23	ILE	N-CA-C	5.69	114.80	106.55
1	AR	34	LEU	N-CA-C	5.69	120.33	113.17
1	AC	34	LEU	N-CA-C	5.69	120.33	113.17
1	BI	34	LEU	N-CA-C	5.68	120.33	113.17
1	A7	34	LEU	N-CA-C	5.68	120.33	113.17
1	AY	34	LEU	N-CA-C	5.68	120.33	113.17
1	A2	34	LEU	N-CA-C	5.68	120.33	113.17
1	A6	34	LEU	N-CA-C	5.68	120.33	113.17
1	A9	34	LEU	N-CA-C	5.68	120.33	113.17
1	BF	34	LEU	N-CA-C	5.68	120.32	113.17
2	Cd	23	ILE	N-CA-C	5.68	114.78	106.55
3	DV	199	ASN	N-CA-C	5.68	118.81	107.62
1	BC	34	LEU	N-CA-C	5.67	120.32	113.17
2	C3	23	ILE	N-CA-C	5.67	114.78	106.55
1	Ab	34	LEU	N-CA-C	5.67	120.32	113.17
1	AK	34	LEU	N-CA-C	5.67	120.31	113.17
2	CT	23	ILE	N-CA-C	5.67	114.77	106.55
2	Ca	23	ILE	N-CA-C	5.67	114.77	106.55
2	Cg	23	ILE	N-CA-C	5.67	114.77	106.55
2	Cp	23	ILE	N-CA-C	5.67	114.77	106.55
1	Af	34	LEU	N-CA-C	5.67	120.31	113.17
1	BB	34	LEU	N-CA-C	5.67	120.31	113.17
1	A8	34	LEU	N-CA-C	5.67	120.31	113.17
1	AJ	34	LEU	N-CA-C	5.67	120.31	113.17
1	BD	34	LEU	N-CA-C	5.67	120.31	113.17
1	AV	34	LEU	N-CA-C	5.67	120.31	113.17
1	Ak	34	LEU	N-CA-C	5.67	120.31	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C5	23	ILE	N-CA-C	5.67	114.77	106.55
2	CJ	23	ILE	N-CA-C	5.67	114.77	106.55
2	Ce	23	ILE	N-CA-C	5.67	114.77	106.55
1	AI	34	LEU	N-CA-C	5.66	120.31	113.17
1	AM	34	LEU	N-CA-C	5.66	120.31	113.17
1	AU	34	LEU	N-CA-C	5.66	120.30	113.17
2	C6	23	ILE	N-CA-C	5.66	114.75	106.55
2	Ck	23	ILE	N-CA-C	5.66	114.76	106.55
2	Co	23	ILE	N-CA-C	5.66	114.76	106.55
3	DJ	199	ASN	N-CA-C	5.66	118.77	107.62
3	DQ	199	ASN	N-CA-C	5.66	118.77	107.62
1	An	34	LEU	N-CA-C	5.66	120.30	113.17
2	C1	23	ILE	N-CA-C	5.66	114.75	106.55
2	Cb	23	ILE	N-CA-C	5.66	114.75	106.55
3	DK	199	ASN	N-CA-C	5.66	118.76	107.62
2	CW	23	ILE	N-CA-C	5.66	114.75	106.55
2	Cq	23	ILE	N-CA-C	5.66	114.75	106.55
1	AP	34	LEU	N-CA-C	5.65	120.29	113.17
1	AX	34	LEU	N-CA-C	5.65	120.30	113.17
2	CH	23	ILE	N-CA-C	5.65	114.75	106.55
2	CO	23	ILE	N-CA-C	5.65	114.75	106.55
2	CD	23	ILE	N-CA-C	5.65	114.75	106.55
1	AE	34	LEU	N-CA-C	5.65	120.29	113.17
1	Ah	34	LEU	N-CA-C	5.65	120.29	113.17
1	BE	34	LEU	N-CA-C	5.65	120.29	113.17
1	BH	34	LEU	N-CA-C	5.65	120.29	113.17
2	CX	23	ILE	N-CA-C	5.65	114.74	106.55
2	Cm	23	ILE	N-CA-C	5.65	114.74	106.55
2	Cv	23	ILE	N-CA-C	5.65	114.74	106.55
2	CF	23	ILE	N-CA-C	5.65	114.74	106.55
2	Cn	23	ILE	N-CA-C	5.65	114.74	106.55
2	CN	23	ILE	N-CA-C	5.65	114.74	106.55
2	CP	23	ILE	N-CA-C	5.65	114.74	106.55
3	Da	199	ASN	N-CA-C	5.65	118.74	107.62
2	Cj	23	ILE	N-CA-C	5.65	114.74	106.55
2	Cw	23	ILE	N-CA-C	5.65	114.74	106.55
1	A5	34	LEU	N-CA-C	5.64	120.28	113.17
2	C7	23	ILE	N-CA-C	5.64	114.73	106.55
2	CG	23	ILE	N-CA-C	5.64	114.73	106.55
2	CM	23	ILE	N-CA-C	5.64	114.73	106.55
2	CQ	23	ILE	N-CA-C	5.64	114.73	106.55
2	Cl	23	ILE	N-CA-C	5.64	114.73	106.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D6	199	ASN	N-CA-C	5.64	118.74	107.62
3	DF	199	ASN	N-CA-C	5.64	118.74	107.62
1	AW	34	LEU	N-CA-C	5.64	120.28	113.17
1	Ag	34	LEU	N-CA-C	5.64	120.28	113.17
1	Ai	34	LEU	N-CA-C	5.64	120.28	113.17
2	Cr	23	ILE	N-CA-C	5.64	114.73	106.55
3	DM	199	ASN	N-CA-C	5.64	118.74	107.62
3	Dg	199	ASN	N-CA-C	5.64	118.74	107.62
1	Ac	34	LEU	N-CA-C	5.64	120.28	113.17
1	Ae	34	LEU	N-CA-C	5.64	120.28	113.17
3	ED	199	ASN	N-CA-C	5.64	118.73	107.62
1	AZ	34	LEU	N-CA-C	5.64	120.28	113.17
3	DA	199	ASN	N-CA-C	5.64	118.73	107.62
3	DI	199	ASN	N-CA-C	5.64	118.73	107.62
3	DL	199	ASN	N-CA-C	5.64	118.73	107.62
3	Dp	199	ASN	N-CA-C	5.64	118.73	107.62
1	AG	34	LEU	N-CA-C	5.64	120.27	113.17
2	C0	23	ILE	N-CA-C	5.64	114.72	106.55
1	AA	34	LEU	N-CA-C	5.64	120.27	113.17
2	CB	23	ILE	N-CA-C	5.64	114.72	106.55
2	CY	23	ILE	N-CA-C	5.64	114.72	106.55
3	DT	199	ASN	N-CA-C	5.64	118.73	107.62
3	DZ	199	ASN	N-CA-C	5.64	118.72	107.62
3	De	199	ASN	N-CA-C	5.64	118.72	107.62
3	Dj	199	ASN	N-CA-C	5.64	118.72	107.62
1	BA	34	LEU	N-CA-C	5.63	120.27	113.17
2	C2	23	ILE	N-CA-C	5.63	114.72	106.55
2	Cf	23	ILE	N-CA-C	5.63	114.72	106.55
3	Dc	199	ASN	N-CA-C	5.63	118.72	107.62
3	Ds	199	ASN	N-CA-C	5.63	118.72	107.62
1	AS	34	LEU	N-CA-C	5.63	120.27	113.17
2	CS	23	ILE	N-CA-C	5.63	114.72	106.55
2	CZ	23	ILE	N-CA-C	5.63	114.72	106.55
2	Cx	23	ILE	N-CA-C	5.63	114.72	106.55
3	D2	199	ASN	N-CA-C	5.63	118.72	107.62
3	Dm	199	ASN	N-CA-C	5.63	118.71	107.62
3	EA	199	ASN	N-CA-C	5.63	118.71	107.62
1	AN	34	LEU	N-CA-C	5.63	120.26	113.17
2	CI	23	ILE	N-CA-C	5.63	114.71	106.55
2	CR	23	ILE	N-CA-C	5.63	114.71	106.55
3	D3	199	ASN	N-CA-C	5.63	118.71	107.62
3	DB	199	ASN	N-CA-C	5.63	118.71	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DD	199	ASN	N-CA-C	5.63	118.71	107.62
3	DS	199	ASN	N-CA-C	5.63	118.71	107.62
3	Db	199	ASN	N-CA-C	5.63	118.71	107.62
3	Dd	199	ASN	N-CA-C	5.63	118.71	107.62
3	Dk	199	ASN	N-CA-C	5.63	118.71	107.62
1	AF	34	LEU	N-CA-C	5.63	120.26	113.17
2	C8	23	ILE	N-CA-C	5.63	114.71	106.55
3	DR	199	ASN	N-CA-C	5.63	118.70	107.62
3	DU	199	ASN	N-CA-C	5.63	118.70	107.62
2	Ct	23	ILE	N-CA-C	5.62	114.71	106.55
3	DC	199	ASN	N-CA-C	5.62	118.70	107.62
1	Aj	34	LEU	N-CA-C	5.62	120.26	113.17
2	Ch	23	ILE	N-CA-C	5.62	114.70	106.55
2	Cs	23	ILE	N-CA-C	5.62	114.70	106.55
3	DP	199	ASN	N-CA-C	5.62	118.70	107.62
3	DX	199	ASN	N-CA-C	5.62	118.70	107.62
3	Dh	199	ASN	N-CA-C	5.62	118.70	107.62
2	C9	23	ILE	N-CA-C	5.62	114.70	106.55
2	CZ	106	ASN	N-CA-C	5.62	118.60	108.48
3	D7	199	ASN	N-CA-C	5.62	118.70	107.62
3	DW	199	ASN	N-CA-C	5.62	118.70	107.62
3	Di	199	ASN	N-CA-C	5.62	118.70	107.62
3	Dn	199	ASN	N-CA-C	5.62	118.69	107.62
1	A3	34	LEU	N-CA-C	5.62	120.25	113.17
1	AB	34	LEU	N-CA-C	5.62	120.25	113.17
3	Df	199	ASN	N-CA-C	5.62	118.69	107.62
1	Ao	34	LEU	N-CA-C	5.62	120.25	113.17
3	Dl	199	ASN	N-CA-C	5.62	118.69	107.62
2	C4	23	ILE	N-CA-C	5.62	114.69	106.55
2	CC	23	ILE	N-CA-C	5.62	114.69	106.55
3	D0	199	ASN	N-CA-C	5.62	118.68	107.62
3	DO	199	ASN	N-CA-C	5.62	118.68	107.62
3	Do	199	ASN	N-CA-C	5.62	118.68	107.62
3	Dq	199	ASN	N-CA-C	5.62	118.68	107.62
1	A0	34	LEU	N-CA-C	5.61	120.24	113.17
1	AD	34	LEU	N-CA-C	5.61	120.24	113.17
1	Ad	34	LEU	N-CA-C	5.61	120.24	113.17
2	CA	23	ILE	N-CA-C	5.61	114.69	106.55
2	CP	106	ASN	N-CA-C	5.61	118.58	108.48
3	D4	199	ASN	N-CA-C	5.61	118.67	107.62
3	D8	199	ASN	N-CA-C	5.61	118.67	107.62
3	D5	199	ASN	N-CA-C	5.61	118.67	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	34	LEU	N-CA-C	5.61	120.24	113.17
1	AL	34	LEU	N-CA-C	5.61	120.24	113.17
2	Ci	23	ILE	N-CA-C	5.61	114.68	106.55
3	DG	199	ASN	N-CA-C	5.61	118.67	107.62
2	Cr	106	ASN	N-CA-C	5.61	118.57	108.48
3	DE	199	ASN	N-CA-C	5.61	118.66	107.62
3	DY	199	ASN	N-CA-C	5.61	118.66	107.62
2	Cb	106	ASN	N-CA-C	5.60	118.57	108.48
1	AH	34	LEU	N-CA-C	5.60	120.23	113.17
2	CV	23	ILE	N-CA-C	5.60	114.67	106.55
2	Cc	23	ILE	N-CA-C	5.60	114.67	106.55
3	D9	199	ASN	N-CA-C	5.60	118.66	107.62
3	DH	199	ASN	N-CA-C	5.60	118.66	107.62
1	AT	34	LEU	N-CA-C	5.60	120.23	113.17
2	CW	106	ASN	N-CA-C	5.60	118.56	108.48
2	Cu	23	ILE	N-CA-C	5.60	114.67	106.55
2	C3	106	ASN	N-CA-C	5.60	118.56	108.48
2	CK	23	ILE	N-CA-C	5.60	114.67	106.55
2	C7	106	ASN	N-CA-C	5.60	118.56	108.48
2	Ch	106	ASN	N-CA-C	5.60	118.55	108.48
3	D1	199	ASN	N-CA-C	5.60	118.65	107.62
1	A4	34	LEU	N-CA-C	5.59	120.22	113.17
3	Dr	199	ASN	N-CA-C	5.59	118.64	107.62
3	EB	199	ASN	N-CA-C	5.59	118.64	107.62
2	Cf	106	ASN	N-CA-C	5.59	118.55	108.48
2	CM	106	ASN	N-CA-C	5.59	118.55	108.48
2	CS	106	ASN	N-CA-C	5.59	118.55	108.48
3	EC	199	ASN	N-CA-C	5.59	118.64	107.62
2	CI	106	ASN	N-CA-C	5.59	118.54	108.48
2	Cs	106	ASN	N-CA-C	5.59	118.54	108.48
2	CB	106	ASN	N-CA-C	5.59	118.54	108.48
2	Cd	106	ASN	N-CA-C	5.59	118.53	108.48
2	Ci	106	ASN	N-CA-C	5.59	118.53	108.48
2	Cm	106	ASN	N-CA-C	5.59	118.54	108.48
2	CG	168	ASN	N-CA-C	5.58	122.69	110.80
2	CN	106	ASN	N-CA-C	5.58	118.53	108.48
2	Cg	106	ASN	N-CA-C	5.58	118.53	108.48
2	CL	106	ASN	N-CA-C	5.58	118.53	108.48
2	Ca	106	ASN	N-CA-C	5.58	118.53	108.48
2	Cw	106	ASN	N-CA-C	5.58	118.53	108.48
3	DN	199	ASN	N-CA-C	5.58	118.62	107.62
4	FS	29	GLN	N-CA-C	-5.58	98.92	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C1	106	ASN	N-CA-C	5.58	118.52	108.48
2	CA	106	ASN	N-CA-C	5.58	118.52	108.48
3	EE	199	ASN	N-CA-C	5.58	118.61	107.62
2	CG	106	ASN	N-CA-C	5.58	118.52	108.48
2	CO	106	ASN	N-CA-C	5.58	118.52	108.48
2	Cj	106	ASN	N-CA-C	5.58	118.52	108.48
2	Cx	106	ASN	N-CA-C	5.58	118.52	108.48
4	Fe	29	GLN	N-CA-C	-5.58	98.93	110.80
2	C2	106	ASN	N-CA-C	5.57	118.51	108.48
4	FX	29	GLN	N-CA-C	-5.57	98.93	110.80
4	Fc	29	GLN	N-CA-C	-5.57	98.93	110.80
2	C6	106	ASN	N-CA-C	5.57	118.51	108.48
2	CT	106	ASN	N-CA-C	5.57	118.51	108.48
2	CU	23	ILE	N-CA-C	5.57	114.63	106.55
2	CV	106	ASN	N-CA-C	5.57	118.51	108.48
2	Ck	106	ASN	N-CA-C	5.57	118.51	108.48
2	CC	168	ASN	N-CA-C	5.57	122.66	110.80
2	CJ	106	ASN	N-CA-C	5.57	118.50	108.48
4	FV	29	GLN	N-CA-C	-5.57	98.94	110.80
2	CQ	106	ASN	N-CA-C	5.57	118.50	108.48
4	F8	29	GLN	N-CA-C	-5.57	98.94	110.80
4	FK	29	GLN	N-CA-C	-5.57	98.94	110.80
2	C0	106	ASN	N-CA-C	5.57	118.50	108.48
2	CX	106	ASN	N-CA-C	5.57	118.50	108.48
2	Cn	106	ASN	N-CA-C	5.57	118.50	108.48
2	C9	106	ASN	N-CA-C	5.56	118.50	108.48
2	C8	106	ASN	N-CA-C	5.56	118.49	108.48
2	Cc	168	ASN	N-CA-C	5.56	122.65	110.80
2	Cv	106	ASN	N-CA-C	5.56	118.49	108.48
4	Fm	29	GLN	N-CA-C	-5.56	98.95	110.80
4	Fq	29	GLN	N-CA-C	-5.56	98.95	110.80
2	CU	106	ASN	N-CA-C	5.56	118.49	108.48
2	Cc	106	ASN	N-CA-C	5.56	118.49	108.48
2	Ce	106	ASN	N-CA-C	5.56	118.49	108.48
4	Fn	29	GLN	N-CA-C	-5.56	98.95	110.80
2	C0	168	ASN	N-CA-C	5.56	122.64	110.80
2	CK	168	ASN	N-CA-C	5.56	122.64	110.80
2	Cb	168	ASN	N-CA-C	5.56	122.64	110.80
2	CN	168	ASN	N-CA-C	5.56	122.64	110.80
2	CY	106	ASN	N-CA-C	5.56	118.48	108.48
2	Ct	106	ASN	N-CA-C	5.56	118.48	108.48
4	Fp	29	GLN	N-CA-C	-5.56	98.96	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Fs	29	GLN	N-CA-C	-5.56	98.96	110.80
2	Cp	106	ASN	N-CA-C	5.56	118.48	108.48
3	D7	56	ILE	CB-CA-C	-5.56	104.58	111.08
4	Fl	29	GLN	N-CA-C	-5.56	98.97	110.80
2	CF	168	ASN	N-CA-C	5.55	122.63	110.80
2	Cq	106	ASN	N-CA-C	5.55	118.48	108.48
3	DT	56	ILE	CB-CA-C	-5.55	104.58	111.08
4	FV	32	ASN	N-CA-C	5.55	117.12	109.29
4	Fx	32	ASN	N-CA-C	5.55	117.12	109.29
2	CP	168	ASN	N-CA-C	5.55	122.63	110.80
2	CQ	168	ASN	N-CA-C	5.55	122.63	110.80
2	Co	168	ASN	N-CA-C	5.55	122.63	110.80
3	D8	56	ILE	CB-CA-C	-5.55	104.58	111.08
4	FE	29	GLN	N-CA-C	-5.55	98.97	110.80
4	Ff	29	GLN	N-CA-C	-5.55	98.97	110.80
2	CE	106	ASN	N-CA-C	5.55	118.47	108.48
2	CT	168	ASN	N-CA-C	5.55	122.63	110.80
2	CX	168	ASN	N-CA-C	5.55	122.62	110.80
4	F7	29	GLN	N-CA-C	-5.55	98.97	110.80
4	Fa	29	GLN	N-CA-C	-5.55	98.98	110.80
2	C2	168	ASN	N-CA-C	5.55	122.62	110.80
2	Cr	168	ASN	N-CA-C	5.55	122.62	110.80
4	Fu	29	GLN	N-CA-C	-5.55	98.98	110.80
2	C7	168	ASN	N-CA-C	5.55	122.62	110.80
2	CC	106	ASN	N-CA-C	5.55	118.47	108.48
4	FC	29	GLN	N-CA-C	-5.55	98.98	110.80
4	Fd	29	GLN	N-CA-C	-5.55	98.98	110.80
2	Cl	106	ASN	N-CA-C	5.55	118.46	108.48
4	F8	32	ASN	N-CA-C	5.55	117.11	109.29
4	FA	29	GLN	N-CA-C	-5.55	98.98	110.80
4	FP	29	GLN	N-CA-C	-5.55	98.98	110.80
4	Fg	29	GLN	N-CA-C	-5.55	98.99	110.80
4	Fo	29	GLN	N-CA-C	-5.55	98.98	110.80
4	Fr	29	GLN	N-CA-C	-5.55	98.98	110.80
1	Al	203	ASP	N-CA-C	-5.54	101.99	110.14
4	F5	29	GLN	N-CA-C	-5.54	98.99	110.80
4	FH	32	ASN	N-CA-C	5.54	117.11	109.29
4	FR	29	GLN	N-CA-C	-5.54	98.99	110.80
4	Fk	29	GLN	N-CA-C	-5.54	98.99	110.80
2	C4	168	ASN	N-CA-C	5.54	122.61	110.80
2	C6	168	ASN	N-CA-C	5.54	122.61	110.80
2	CR	168	ASN	N-CA-C	5.54	122.61	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cu	168	ASN	N-CA-C	5.54	122.61	110.80
3	DO	56	ILE	CB-CA-C	-5.54	104.59	111.08
3	Db	56	ILE	CB-CA-C	-5.54	104.59	111.08
4	F0	29	GLN	N-CA-C	-5.54	98.99	110.80
4	F4	29	GLN	N-CA-C	-5.54	98.99	110.80
4	FB	29	GLN	N-CA-C	-5.54	98.99	110.80
4	FH	29	GLN	N-CA-C	-5.54	98.99	110.80
4	FU	29	GLN	N-CA-C	-5.54	98.99	110.80
4	Fb	29	GLN	N-CA-C	-5.54	98.99	110.80
4	Fj	29	GLN	N-CA-C	-5.54	98.99	110.80
4	Ft	29	GLN	N-CA-C	-5.54	98.99	110.80
1	AG	203	ASP	N-CA-C	-5.54	101.99	110.14
2	C1	168	ASN	N-CA-C	5.54	122.61	110.80
2	C4	106	ASN	N-CA-C	5.54	118.45	108.48
2	C5	106	ASN	N-CA-C	5.54	118.45	108.48
2	CF	106	ASN	N-CA-C	5.54	118.45	108.48
2	CJ	168	ASN	N-CA-C	5.54	122.60	110.80
2	CV	168	ASN	N-CA-C	5.54	122.60	110.80
2	CW	168	ASN	N-CA-C	5.54	122.61	110.80
2	Ct	168	ASN	N-CA-C	5.54	122.61	110.80
2	Cw	168	ASN	N-CA-C	5.54	122.60	110.80
3	DS	56	ILE	CB-CA-C	-5.54	104.60	111.08
4	F2	29	GLN	N-CA-C	-5.54	99.00	110.80
4	F3	29	GLN	N-CA-C	-5.54	99.00	110.80
4	FJ	29	GLN	N-CA-C	-5.54	99.00	110.80
4	FW	29	GLN	N-CA-C	-5.54	99.00	110.80
4	Fi	29	GLN	N-CA-C	-5.54	99.00	110.80
4	Fv	29	GLN	N-CA-C	-5.54	99.00	110.80
1	Ai	203	ASP	N-CA-C	-5.54	102.00	110.14
2	C3	168	ASN	N-CA-C	5.54	122.60	110.80
2	CI	168	ASN	N-CA-C	5.54	122.60	110.80
2	CZ	168	ASN	N-CA-C	5.54	122.60	110.80
4	FL	29	GLN	N-CA-C	-5.54	99.00	110.80
4	Fw	29	GLN	N-CA-C	-5.54	99.00	110.80
1	Ac	203	ASP	N-CA-C	-5.54	102.00	110.14
2	CA	168	ASN	N-CA-C	5.54	122.60	110.80
2	Cf	168	ASN	N-CA-C	5.54	122.60	110.80
3	D5	56	ILE	CB-CA-C	-5.54	104.60	111.08
3	DP	56	ILE	CB-CA-C	-5.54	104.60	111.08
3	DZ	56	ILE	CB-CA-C	-5.54	104.60	111.08
3	Dh	56	ILE	CB-CA-C	-5.54	104.60	111.08
4	FT	29	GLN	N-CA-C	-5.54	99.00	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Fh	29	GLN	N-CA-C	-5.54	99.00	110.80
4	Fh	32	ASN	N-CA-C	5.54	117.10	109.29
2	Cd	168	ASN	N-CA-C	5.54	122.59	110.80
2	Co	106	ASN	N-CA-C	5.54	118.45	108.48
4	FZ	29	GLN	N-CA-C	-5.54	99.01	110.80
1	AJ	203	ASP	N-CA-C	-5.54	102.00	110.14
1	Ab	203	ASP	N-CA-C	-5.54	102.00	110.14
2	CH	106	ASN	N-CA-C	5.54	118.44	108.48
2	CR	106	ASN	N-CA-C	5.54	118.45	108.48
2	Cg	168	ASN	N-CA-C	5.54	122.59	110.80
2	Cs	168	ASN	N-CA-C	5.54	122.59	110.80
2	Cu	106	ASN	N-CA-C	5.54	118.44	108.48
4	FY	29	GLN	N-CA-C	-5.54	99.01	110.80
2	CS	168	ASN	N-CA-C	5.53	122.58	110.80
2	Ce	168	ASN	N-CA-C	5.53	122.59	110.80
4	FF	29	GLN	N-CA-C	-5.53	99.01	110.80
4	FM	29	GLN	N-CA-C	-5.53	99.01	110.80
2	CK	106	ASN	N-CA-C	5.53	118.44	108.48
2	Cj	168	ASN	N-CA-C	5.53	122.58	110.80
4	FD	29	GLN	N-CA-C	-5.53	99.02	110.80
2	CB	168	ASN	N-CA-C	5.53	122.58	110.80
2	Cx	116	ALA	N-CA-C	5.53	118.88	108.65
4	F1	29	GLN	N-CA-C	-5.53	99.02	110.80
4	F9	29	GLN	N-CA-C	-5.53	99.02	110.80
4	FG	29	GLN	N-CA-C	-5.53	99.02	110.80
4	FJ	32	ASN	N-CA-C	5.53	117.09	109.29
4	FO	29	GLN	N-CA-C	-5.53	99.02	110.80
4	Fu	32	ASN	N-CA-C	5.53	117.09	109.29
1	AN	203	ASP	N-CA-C	-5.53	102.01	110.14
2	C5	168	ASN	N-CA-C	5.53	122.58	110.80
4	FY	32	ASN	N-CA-C	5.53	117.09	109.29
2	Ch	168	ASN	N-CA-C	5.53	122.57	110.80
2	Cv	168	ASN	N-CA-C	5.53	122.57	110.80
3	DU	56	ILE	CB-CA-C	-5.53	104.61	111.08
4	F6	29	GLN	N-CA-C	-5.53	99.03	110.80
4	FM	32	ASN	N-CA-C	5.53	117.08	109.29
4	FW	32	ASN	N-CA-C	5.53	117.08	109.29
4	Fv	32	ASN	N-CA-C	5.53	117.08	109.29
2	CD	106	ASN	N-CA-C	5.53	118.43	108.48
2	CM	168	ASN	N-CA-C	5.53	122.57	110.80
4	FI	29	GLN	N-CA-C	-5.53	99.03	110.80
4	FK	32	ASN	N-CA-C	5.53	117.08	109.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	FN	29	GLN	N-CA-C	-5.53	99.03	110.80
4	Fr	32	ASN	N-CA-C	5.53	117.08	109.29
2	CH	168	ASN	N-CA-C	5.52	122.57	110.80
3	Dg	56	ILE	CB-CA-C	-5.52	104.62	111.08
4	FQ	29	GLN	N-CA-C	-5.52	99.03	110.80
4	FQ	32	ASN	N-CA-C	5.52	117.08	109.29
2	CO	168	ASN	N-CA-C	5.52	122.56	110.80
2	CU	168	ASN	N-CA-C	5.52	122.56	110.80
2	Ci	168	ASN	N-CA-C	5.52	122.56	110.80
2	Cl	168	ASN	N-CA-C	5.52	122.56	110.80
2	Cp	168	ASN	N-CA-C	5.52	122.56	110.80
3	Dl	56	ILE	CB-CA-C	-5.52	104.62	111.08
3	Dd	56	ILE	CB-CA-C	-5.52	104.62	111.08
3	Dm	56	ILE	CB-CA-C	-5.52	104.62	111.08
4	FT	32	ASN	N-CA-C	5.52	117.08	109.29
4	Fk	32	ASN	N-CA-C	5.52	117.08	109.29
4	Fx	29	GLN	N-CA-C	-5.52	99.04	110.80
1	A4	203	ASP	N-CA-C	-5.52	102.02	110.14
2	Cm	168	ASN	N-CA-C	5.52	122.56	110.80
4	FA	32	ASN	N-CA-C	5.52	117.08	109.29
4	FU	32	ASN	N-CA-C	5.52	117.07	109.29
1	AT	203	ASP	N-CA-C	-5.52	102.03	110.14
2	C8	168	ASN	N-CA-C	5.52	122.56	110.80
2	CL	168	ASN	N-CA-C	5.52	122.56	110.80
2	Ca	168	ASN	N-CA-C	5.52	122.56	110.80
2	Ck	168	ASN	N-CA-C	5.52	122.56	110.80
3	Dc	56	ILE	CB-CA-C	-5.52	104.62	111.08
3	Df	56	ILE	CB-CA-C	-5.52	104.62	111.08
4	Fc	32	ASN	N-CA-C	5.52	117.07	109.29
2	CI	116	ALA	N-CA-C	5.52	118.86	108.65
2	Ct	116	ALA	N-CA-C	5.52	118.86	108.65
4	Fe	32	ASN	N-CA-C	5.52	117.07	109.29
4	Fs	32	ASN	N-CA-C	5.52	117.07	109.29
1	AZ	203	ASP	N-CA-C	-5.52	102.03	110.14
3	DM	56	ILE	CB-CA-C	-5.52	104.63	111.08
3	DX	56	ILE	CB-CA-C	-5.52	104.63	111.08
4	F7	32	ASN	N-CA-C	5.52	117.07	109.29
4	Ff	32	ASN	N-CA-C	5.52	117.07	109.29
1	Af	203	ASP	N-CA-C	-5.51	102.03	110.14
2	Cn	168	ASN	N-CA-C	5.51	122.55	110.80
2	Cq	168	ASN	N-CA-C	5.51	122.55	110.80
2	Cs	116	ALA	N-CA-C	5.51	118.85	108.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	FB	32	ASN	N-CA-C	5.51	117.06	109.29
4	FS	32	ASN	N-CA-C	5.51	117.07	109.29
4	Fo	32	ASN	N-CA-C	5.51	117.06	109.29
2	Cr	116	ALA	N-CA-C	5.51	118.85	108.65
1	BA	203	ASP	N-CA-C	-5.51	102.04	110.14
1	BF	203	ASP	N-CA-C	-5.51	102.04	110.14
2	C2	116	ALA	N-CA-C	5.51	118.84	108.65
3	D0	56	ILE	CB-CA-C	-5.51	104.63	111.08
3	DB	56	ILE	CB-CA-C	-5.51	104.63	111.08
3	DL	56	ILE	CB-CA-C	-5.51	104.63	111.08
3	EE	56	ILE	CB-CA-C	-5.51	104.63	111.08
4	FG	32	ASN	N-CA-C	5.51	117.06	109.29
4	Fq	32	ASN	N-CA-C	5.51	117.06	109.29
2	CD	168	ASN	N-CA-C	5.51	122.54	110.80
2	CY	168	ASN	N-CA-C	5.51	122.53	110.80
2	Cm	116	ALA	N-CA-C	5.51	118.84	108.65
2	Cw	116	ALA	N-CA-C	5.51	118.84	108.65
4	F4	32	ASN	N-CA-C	5.51	117.06	109.29
4	Fd	32	ASN	N-CA-C	5.51	117.06	109.29
1	Ah	203	ASP	N-CA-C	-5.51	102.04	110.14
3	D9	56	ILE	CB-CA-C	-5.51	104.64	111.08
3	DA	56	ILE	CB-CA-C	-5.51	104.64	111.08
3	DN	56	ILE	CB-CA-C	-5.51	104.64	111.08
1	Aa	203	ASP	N-CA-C	-5.51	102.05	110.14
2	CN	116	ALA	N-CA-C	5.51	118.84	108.65
2	CW	116	ALA	N-CA-C	5.51	118.84	108.65
2	Cv	116	ALA	N-CA-C	5.51	118.84	108.65
3	Dj	56	ILE	CB-CA-C	-5.51	104.64	111.08
3	EB	56	ILE	CB-CA-C	-5.51	104.64	111.08
4	FE	32	ASN	N-CA-C	5.51	117.06	109.29
4	FL	32	ASN	N-CA-C	5.51	117.05	109.29
2	C9	168	ASN	N-CA-C	5.50	122.53	110.80
1	AW	203	ASP	N-CA-C	-5.50	102.05	110.14
1	AX	203	ASP	N-CA-C	-5.50	102.05	110.14
2	CE	168	ASN	N-CA-C	5.50	122.52	110.80
2	CT	116	ALA	N-CA-C	5.50	118.83	108.65
2	Cx	168	ASN	N-CA-C	5.50	122.52	110.80
3	Da	56	ILE	CB-CA-C	-5.50	104.64	111.08
3	Dq	56	ILE	CB-CA-C	-5.50	104.64	111.08
4	FI	32	ASN	N-CA-C	5.50	117.05	109.29
4	Fb	32	ASN	N-CA-C	5.50	117.05	109.29
2	C3	116	ALA	N-CA-C	5.50	118.83	108.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CS	116	ALA	N-CA-C	5.50	118.83	108.65
3	Do	56	ILE	CB-CA-C	-5.50	104.64	111.08
1	BC	203	ASP	N-CA-C	-5.50	102.06	110.14
2	C7	116	ALA	N-CA-C	5.50	118.83	108.65
3	DF	56	ILE	CB-CA-C	-5.50	104.64	111.08
3	DG	56	ILE	CB-CA-C	-5.50	104.64	111.08
3	EC	56	ILE	CB-CA-C	-5.50	104.65	111.08
4	FF	32	ASN	N-CA-C	5.50	117.05	109.29
1	BB	203	ASP	N-CA-C	-5.50	102.06	110.14
2	CP	116	ALA	N-CA-C	5.50	118.82	108.65
2	Ca	116	ALA	N-CA-C	5.50	118.82	108.65
3	DV	56	ILE	CB-CA-C	-5.50	104.65	111.08
1	A0	203	ASP	N-CA-C	-5.50	102.06	110.14
1	A6	203	ASP	N-CA-C	-5.50	102.06	110.14
1	Ae	203	ASP	N-CA-C	-5.50	102.06	110.14
3	D2	56	ILE	CB-CA-C	-5.50	104.65	111.08
3	D3	56	ILE	CB-CA-C	-5.50	104.65	111.08
4	FD	32	ASN	N-CA-C	5.50	117.04	109.29
4	FO	32	ASN	N-CA-C	5.50	117.04	109.29
4	FX	32	ASN	N-CA-C	5.50	117.04	109.29
1	AC	203	ASP	N-CA-C	-5.50	102.06	110.14
1	Ag	203	ASP	N-CA-C	-5.50	102.06	110.14
2	CC	116	ALA	N-CA-C	5.50	118.82	108.65
2	CV	116	ALA	N-CA-C	5.50	118.82	108.65
2	Ch	116	ALA	N-CA-C	5.50	118.81	108.65
2	Co	116	ALA	N-CA-C	5.50	118.82	108.65
3	Dl	56	ILE	CB-CA-C	-5.50	104.65	111.08
3	Dn	56	ILE	CB-CA-C	-5.50	104.65	111.08
1	A2	203	ASP	N-CA-C	-5.49	102.06	110.14
1	A3	203	ASP	N-CA-C	-5.49	102.06	110.14
1	A5	203	ASP	N-CA-C	-5.49	102.06	110.14
1	AQ	203	ASP	N-CA-C	-5.49	102.07	110.14
2	CJ	116	ALA	N-CA-C	5.49	118.81	108.65
3	DR	56	ILE	CB-CA-C	-5.49	104.65	111.08
3	ED	56	ILE	CB-CA-C	-5.49	104.65	111.08
4	F0	32	ASN	N-CA-C	5.49	117.03	109.29
4	Fm	32	ASN	N-CA-C	5.49	117.03	109.29
1	A1	203	ASP	N-CA-C	-5.49	102.07	110.14
1	BD	203	ASP	N-CA-C	-5.49	102.07	110.14
2	CG	116	ALA	N-CA-C	5.49	118.81	108.65
2	CM	116	ALA	N-CA-C	5.49	118.81	108.65
3	DI	56	ILE	CB-CA-C	-5.49	104.65	111.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F2	32	ASN	N-CA-C	5.49	117.03	109.29
4	F3	32	ASN	N-CA-C	5.49	117.03	109.29
1	AO	203	ASP	N-CA-C	-5.49	102.07	110.14
1	AS	203	ASP	N-CA-C	-5.49	102.07	110.14
2	CF	116	ALA	N-CA-C	5.49	118.81	108.65
4	F5	32	ASN	N-CA-C	5.49	117.03	109.29
4	FN	32	ASN	N-CA-C	5.49	117.03	109.29
4	Fl	32	ASN	N-CA-C	5.49	117.03	109.29
1	AB	203	ASP	N-CA-C	-5.49	102.07	110.14
1	AD	203	ASP	N-CA-C	-5.49	102.07	110.14
1	AF	203	ASP	N-CA-C	-5.49	102.07	110.14
1	AH	203	ASP	N-CA-C	-5.49	102.07	110.14
1	AK	203	ASP	N-CA-C	-5.49	102.07	110.14
1	AR	203	ASP	N-CA-C	-5.49	102.07	110.14
1	Ad	203	ASP	N-CA-C	-5.49	102.07	110.14
2	CE	116	ALA	N-CA-C	5.49	118.81	108.65
2	CQ	116	ALA	N-CA-C	5.49	118.81	108.65
2	CX	116	ALA	N-CA-C	5.49	118.80	108.65
3	Ds	56	ILE	CB-CA-C	-5.49	104.66	111.08
4	FP	32	ASN	N-CA-C	5.49	117.03	109.29
4	FZ	32	ASN	N-CA-C	5.49	117.03	109.29
4	Ft	32	ASN	N-CA-C	5.49	117.03	109.29
1	AM	203	ASP	N-CA-C	-5.49	102.07	110.14
2	C0	116	ALA	N-CA-C	5.49	118.80	108.65
2	CD	116	ALA	N-CA-C	5.49	118.80	108.65
2	Ci	116	ALA	N-CA-C	5.49	118.80	108.65
4	Fa	32	ASN	N-CA-C	5.49	117.03	109.29
1	An	203	ASP	N-CA-C	-5.49	102.08	110.14
2	CH	116	ALA	N-CA-C	5.49	118.80	108.65
2	CK	116	ALA	N-CA-C	5.49	118.80	108.65
2	CY	116	ALA	N-CA-C	5.49	118.80	108.65
4	F1	32	ASN	N-CA-C	5.49	117.03	109.29
2	CZ	116	ALA	N-CA-C	5.48	118.80	108.65
3	DJ	56	ILE	CB-CA-C	-5.48	104.66	111.08
1	AA	203	ASP	N-CA-C	-5.48	102.08	110.14
2	C4	116	ALA	N-CA-C	5.48	118.79	108.65
2	C9	116	ALA	N-CA-C	5.48	118.79	108.65
2	CB	116	ALA	N-CA-C	5.48	118.79	108.65
2	Ck	116	ALA	N-CA-C	5.48	118.79	108.65
3	Di	56	ILE	CB-CA-C	-5.48	104.67	111.08
4	F6	32	ASN	N-CA-C	5.48	117.02	109.29
4	FR	32	ASN	N-CA-C	5.48	117.02	109.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A7	203	ASP	N-CA-C	-5.48	102.08	110.14
1	AP	203	ASP	N-CA-C	-5.48	102.08	110.14
1	AU	203	ASP	N-CA-C	-5.48	102.08	110.14
2	C1	116	ALA	N-CA-C	5.48	118.79	108.65
1	Aj	203	ASP	N-CA-C	-5.48	102.09	110.14
2	C6	116	ALA	N-CA-C	5.48	118.78	108.65
2	CU	116	ALA	N-CA-C	5.48	118.79	108.65
3	EA	56	ILE	CB-CA-C	-5.48	104.67	111.08
1	AY	203	ASP	N-CA-C	-5.48	102.09	110.14
2	CL	116	ALA	N-CA-C	5.48	118.78	108.65
3	DD	56	ILE	CB-CA-C	-5.48	104.67	111.08
3	DW	56	ILE	CB-CA-C	-5.48	104.67	111.08
3	Dk	56	ILE	CB-CA-C	-5.48	104.67	111.08
3	Dp	56	ILE	CB-CA-C	-5.48	104.67	111.08
2	Cf	116	ALA	N-CA-C	5.48	118.78	108.65
2	Cg	116	ALA	N-CA-C	5.48	118.78	108.65
4	Fn	32	ASN	N-CA-C	5.48	117.01	109.29
1	A9	203	ASP	N-CA-C	-5.47	102.09	110.14
1	AL	203	ASP	N-CA-C	-5.47	102.09	110.14
2	Cj	116	ALA	N-CA-C	5.47	118.78	108.65
4	Fj	32	ASN	N-CA-C	5.47	117.01	109.29
1	Ak	203	ASP	N-CA-C	-5.47	102.09	110.14
4	FC	32	ASN	N-CA-C	5.47	117.01	109.29
4	Fp	32	ASN	N-CA-C	5.47	117.01	109.29
2	Ce	116	ALA	N-CA-C	5.47	118.77	108.65
1	BH	203	ASP	N-CA-C	-5.47	102.10	110.14
2	CR	116	ALA	N-CA-C	5.47	118.77	108.65
2	Cc	116	ALA	N-CA-C	5.47	118.77	108.65
2	Cl	116	ALA	N-CA-C	5.47	118.77	108.65
2	Cp	116	ALA	N-CA-C	5.47	118.77	108.65
3	D4	56	ILE	CB-CA-C	-5.47	104.68	111.08
3	DK	56	ILE	CB-CA-C	-5.47	104.68	111.08
3	DY	56	ILE	CB-CA-C	-5.47	104.68	111.08
1	AE	203	ASP	N-CA-C	-5.47	102.10	110.14
3	D6	56	ILE	CB-CA-C	-5.47	104.68	111.08
1	AI	203	ASP	N-CA-C	-5.47	102.10	110.14
1	Am	203	ASP	N-CA-C	-5.47	102.10	110.14
2	Cd	116	ALA	N-CA-C	5.47	118.76	108.65
2	Cq	116	ALA	N-CA-C	5.46	118.76	108.65
3	DH	56	ILE	CB-CA-C	-5.46	104.69	111.08
1	Ao	203	ASP	N-CA-C	-5.46	102.11	110.14
1	BE	203	ASP	N-CA-C	-5.46	102.11	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DK	88	THR	N-CA-C	5.46	117.78	110.35
4	Fw	32	ASN	N-CA-C	5.46	116.99	109.29
1	BG	203	ASP	N-CA-C	-5.46	102.11	110.14
2	CA	116	ALA	N-CA-C	5.46	118.75	108.65
3	De	56	ILE	CB-CA-C	-5.46	104.69	111.08
4	Fi	32	ASN	N-CA-C	5.46	116.99	109.29
3	DQ	56	ILE	CB-CA-C	-5.46	104.69	111.08
2	C5	116	ALA	N-CA-C	5.46	118.75	108.65
2	CH	163	LEU	N-CA-C	-5.46	100.50	109.40
1	BI	203	ASP	N-CA-C	-5.46	102.12	110.14
2	CQ	163	LEU	N-CA-C	-5.46	100.50	109.40
1	AV	203	ASP	N-CA-C	-5.45	102.12	110.14
2	CO	116	ALA	N-CA-C	5.45	118.74	108.65
2	Cl	85	SER	N-CA-C	5.45	117.98	110.35
2	Cn	116	ALA	N-CA-C	5.45	118.74	108.65
4	F9	32	ASN	N-CA-C	5.45	116.98	109.29
1	A8	203	ASP	N-CA-C	-5.45	102.13	110.14
2	Cu	116	ALA	N-CA-C	5.45	118.74	108.65
3	DC	56	ILE	CB-CA-C	-5.45	104.70	111.08
3	DE	56	ILE	CB-CA-C	-5.45	104.70	111.08
3	DH	88	THR	N-CA-C	5.45	117.76	110.35
2	CM	163	LEU	N-CA-C	-5.45	100.52	109.40
2	Ci	163	LEU	N-CA-C	-5.45	100.52	109.40
2	Cc	85	SER	N-CA-C	5.45	117.97	110.35
2	Cm	163	LEU	N-CA-C	-5.45	100.53	109.40
3	Da	88	THR	N-CA-C	5.45	117.76	110.35
3	Dr	88	THR	N-CA-C	5.45	117.76	110.35
1	AT	190	ALA	N-CA-C	-5.44	103.97	111.81
2	Cb	116	ALA	N-CA-C	5.44	118.72	108.65
4	Fg	32	ASN	N-CA-C	5.44	116.96	109.29
2	C6	163	LEU	N-CA-C	-5.44	100.53	109.40
2	C7	163	LEU	N-CA-C	-5.44	100.53	109.40
2	Ca	163	LEU	N-CA-C	-5.44	100.53	109.40
2	Cf	85	SER	N-CA-C	5.44	117.97	110.35
2	CY	163	LEU	N-CA-C	-5.44	100.53	109.40
3	D7	88	THR	N-CA-C	5.44	117.75	110.35
1	Al	190	ALA	N-CA-C	-5.44	103.98	111.81
2	C8	116	ALA	N-CA-C	5.44	118.71	108.65
2	CB	163	LEU	N-CA-C	-5.44	100.54	109.40
2	CD	163	LEU	N-CA-C	-5.44	100.54	109.40
2	CU	163	LEU	N-CA-C	-5.44	100.54	109.40
2	CX	163	LEU	N-CA-C	-5.44	100.54	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AV	224	ILE	CA-C-N	5.43	125.98	120.38
1	AV	224	ILE	C-N-CA	5.43	125.98	120.38
2	C0	163	LEU	N-CA-C	-5.43	100.54	109.40
2	CJ	85	SER	N-CA-C	5.43	117.96	110.35
2	Co	163	LEU	N-CA-C	-5.43	100.54	109.40
2	Cu	85	SER	N-CA-C	5.43	117.96	110.35
2	Cb	163	LEU	N-CA-C	-5.43	100.54	109.40
3	Dc	88	THR	N-CA-C	5.43	117.74	110.35
3	Dr	56	ILE	CB-CA-C	-5.43	104.72	111.08
2	CT	163	LEU	N-CA-C	-5.43	100.55	109.40
2	Ce	163	LEU	N-CA-C	-5.43	100.55	109.40
3	Df	88	THR	N-CA-C	5.43	117.74	110.35
2	C8	163	LEU	N-CA-C	-5.43	100.55	109.40
2	CG	85	SER	N-CA-C	5.43	117.95	110.35
2	CN	163	LEU	N-CA-C	-5.43	100.55	109.40
3	DS	88	THR	N-CA-C	5.43	117.73	110.35
3	DU	88	THR	N-CA-C	5.43	117.73	110.35
3	ED	201	LYS	N-CA-C	5.43	118.56	110.14
2	C9	163	LEU	N-CA-C	-5.43	100.55	109.40
2	CS	163	LEU	N-CA-C	-5.43	100.55	109.40
1	AB	224	ILE	CA-C-N	5.43	125.97	120.38
1	AB	224	ILE	C-N-CA	5.43	125.97	120.38
2	CA	163	LEU	N-CA-C	-5.43	100.56	109.40
2	Cd	163	LEU	N-CA-C	-5.43	100.56	109.40
2	Ct	163	LEU	N-CA-C	-5.42	100.56	109.40
2	Cw	163	LEU	N-CA-C	-5.42	100.56	109.40
2	Cx	163	LEU	N-CA-C	-5.42	100.56	109.40
3	DC	88	THR	N-CA-C	5.42	117.73	110.35
3	Db	88	THR	N-CA-C	5.42	117.73	110.35
3	Dp	88	THR	N-CA-C	5.42	117.73	110.35
2	Cq	163	LEU	N-CA-C	-5.42	100.56	109.40
3	Dj	88	THR	N-CA-C	5.42	117.72	110.35
1	A1	190	ALA	N-CA-C	-5.42	104.00	111.81
2	CS	85	SER	N-CA-C	5.42	117.94	110.35
2	Ch	163	LEU	N-CA-C	-5.42	100.56	109.40
3	D5	88	THR	N-CA-C	5.42	117.72	110.35
3	DN	88	THR	N-CA-C	5.42	117.72	110.35
2	CI	163	LEU	N-CA-C	-5.42	100.56	109.40
2	Ck	163	LEU	N-CA-C	-5.42	100.57	109.40
2	Cr	163	LEU	N-CA-C	-5.42	100.56	109.40
1	AW	190	ALA	N-CA-C	-5.42	104.01	111.81
2	CC	163	LEU	N-CA-C	-5.42	100.57	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CV	163	LEU	N-CA-C	-5.42	100.57	109.40
2	Ca	85	SER	N-CA-C	5.42	117.94	110.35
2	Cb	85	SER	N-CA-C	5.42	117.94	110.35
2	Cj	163	LEU	N-CA-C	-5.42	100.57	109.40
1	A9	190	ALA	N-CA-C	-5.42	104.01	111.81
1	AU	237	HIS	N-CA-C	-5.42	100.88	109.76
1	BI	190	ALA	N-CA-C	-5.42	104.01	111.81
3	DX	201	LYS	N-CA-C	5.42	118.53	110.14
3	Dj	201	LYS	N-CA-C	5.42	118.54	110.14
1	BF	190	ALA	N-CA-C	-5.42	104.01	111.81
2	CF	163	LEU	N-CA-C	-5.42	100.57	109.40
1	Ag	190	ALA	N-CA-C	-5.41	104.02	111.81
1	BH	190	ALA	N-CA-C	-5.41	104.02	111.81
2	C6	85	SER	N-CA-C	5.41	117.93	110.35
2	CG	163	LEU	N-CA-C	-5.41	100.58	109.40
3	DG	88	THR	N-CA-C	5.41	117.71	110.35
3	DW	88	THR	N-CA-C	5.41	117.71	110.35
3	EA	88	THR	N-CA-C	5.41	117.71	110.35
1	A2	190	ALA	N-CA-C	-5.41	104.02	111.81
1	AM	190	ALA	N-CA-C	-5.41	104.02	111.81
1	AO	190	ALA	N-CA-C	-5.41	104.02	111.81
1	AS	190	ALA	N-CA-C	-5.41	104.02	111.81
2	CE	163	LEU	N-CA-C	-5.41	100.58	109.40
2	CJ	163	LEU	N-CA-C	-5.41	100.58	109.40
2	CZ	163	LEU	N-CA-C	-5.41	100.58	109.40
2	Cn	163	LEU	N-CA-C	-5.41	100.58	109.40
3	D0	88	THR	N-CA-C	5.41	117.71	110.35
3	DA	88	THR	N-CA-C	5.41	117.71	110.35
3	DY	88	THR	N-CA-C	5.41	117.71	110.35
3	Dd	88	THR	N-CA-C	5.41	117.71	110.35
3	Dn	88	THR	N-CA-C	5.41	117.71	110.35
1	AK	190	ALA	N-CA-C	-5.41	104.02	111.81
1	AQ	190	ALA	N-CA-C	-5.41	104.02	111.81
1	An	190	ALA	N-CA-C	-5.41	104.02	111.81
2	Cf	163	LEU	N-CA-C	-5.41	100.58	109.40
2	Ck	85	SER	N-CA-C	5.41	117.92	110.35
2	Cl	163	LEU	N-CA-C	-5.41	100.58	109.40
2	Cu	163	LEU	N-CA-C	-5.41	100.58	109.40
2	CR	163	LEU	N-CA-C	-5.41	100.59	109.40
2	CW	163	LEU	N-CA-C	-5.41	100.59	109.40
3	DF	88	THR	N-CA-C	5.41	117.70	110.35
3	DM	88	THR	N-CA-C	5.41	117.70	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DT	88	THR	N-CA-C	5.41	117.70	110.35
3	DV	88	THR	N-CA-C	5.41	117.70	110.35
1	AC	237	HIS	N-CA-C	-5.41	100.89	109.76
1	AL	190	ALA	N-CA-C	-5.41	104.03	111.81
2	C1	163	LEU	N-CA-C	-5.41	100.59	109.40
2	C5	85	SER	N-CA-C	5.41	117.92	110.35
2	CB	85	SER	N-CA-C	5.41	117.92	110.35
3	D6	88	THR	N-CA-C	5.41	117.70	110.35
3	D7	201	LYS	N-CA-C	5.41	118.52	110.14
3	D9	88	THR	N-CA-C	5.41	117.70	110.35
3	DB	88	THR	N-CA-C	5.41	117.70	110.35
3	DI	88	THR	N-CA-C	5.41	117.70	110.35
3	Dm	201	LYS	N-CA-C	5.41	118.52	110.14
1	AN	224	ILE	CA-C-N	5.40	125.95	120.38
1	AN	224	ILE	C-N-CA	5.40	125.95	120.38
2	CF	85	SER	N-CA-C	5.40	117.92	110.35
2	CP	163	LEU	N-CA-C	-5.40	100.59	109.40
3	D3	88	THR	N-CA-C	5.40	117.70	110.35
3	Do	88	THR	N-CA-C	5.40	117.70	110.35
1	AV	190	ALA	N-CA-C	-5.40	104.03	111.81
1	Ah	190	ALA	N-CA-C	-5.40	104.03	111.81
2	CK	163	LEU	N-CA-C	-5.40	100.59	109.40
1	AE	237	HIS	N-CA-C	-5.40	100.90	109.76
2	C2	163	LEU	N-CA-C	-5.40	100.60	109.40
2	C3	85	SER	N-CA-C	5.40	117.91	110.35
2	C5	163	LEU	N-CA-C	-5.40	100.60	109.40
2	CX	85	SER	N-CA-C	5.40	117.91	110.35
2	Cr	85	SER	N-CA-C	5.40	117.91	110.35
2	Ct	85	SER	N-CA-C	5.40	117.91	110.35
3	D1	88	THR	N-CA-C	5.40	117.70	110.35
3	DX	88	THR	N-CA-C	5.40	117.69	110.35
3	EC	88	THR	N-CA-C	5.40	117.70	110.35
1	Ad	224	ILE	CA-C-N	5.40	125.94	120.38
1	Ad	224	ILE	C-N-CA	5.40	125.94	120.38
3	Dh	88	THR	N-CA-C	5.40	117.69	110.35
1	AC	190	ALA	N-CA-C	-5.40	104.04	111.81
1	AR	190	ALA	N-CA-C	-5.40	104.04	111.81
1	AZ	190	ALA	N-CA-C	-5.40	104.04	111.81
2	Cj	85	SER	N-CA-C	5.40	117.91	110.35
2	Cn	85	SER	N-CA-C	5.40	117.91	110.35
1	A0	190	ALA	N-CA-C	-5.40	104.04	111.81
1	A8	190	ALA	N-CA-C	-5.40	104.04	111.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AX	190	ALA	N-CA-C	-5.40	104.04	111.81
2	Cs	85	SER	N-CA-C	5.40	117.90	110.35
2	Cv	163	LEU	N-CA-C	-5.40	100.61	109.40
3	DW	201	LYS	N-CA-C	5.40	118.50	110.14
1	AY	190	ALA	N-CA-C	-5.39	104.04	111.81
1	Ad	190	ALA	N-CA-C	-5.39	104.04	111.81
1	Af	190	ALA	N-CA-C	-5.39	104.04	111.81
2	CM	85	SER	N-CA-C	5.39	117.90	110.35
2	CO	85	SER	N-CA-C	5.39	117.90	110.35
2	CV	85	SER	N-CA-C	5.39	117.90	110.35
2	Ce	85	SER	N-CA-C	5.39	117.90	110.35
2	Cg	85	SER	N-CA-C	5.39	117.90	110.35
2	Cs	163	LEU	N-CA-C	-5.39	100.61	109.40
3	DI	88	THR	N-CA-C	5.39	117.69	110.35
3	DY	201	LYS	N-CA-C	5.39	118.50	110.14
1	A6	190	ALA	N-CA-C	-5.39	104.04	111.81
1	Ab	190	ALA	N-CA-C	-5.39	104.05	111.81
1	Ac	224	ILE	CA-C-N	5.39	125.94	120.38
1	Ac	224	ILE	C-N-CA	5.39	125.94	120.38
1	BA	190	ALA	N-CA-C	-5.39	104.05	111.81
2	CR	85	SER	N-CA-C	5.39	117.90	110.35
2	Ch	85	SER	N-CA-C	5.39	117.90	110.35
3	DF	201	LYS	N-CA-C	5.39	118.50	110.14
3	Dh	201	LYS	N-CA-C	5.39	118.50	110.14
3	Dk	88	THR	N-CA-C	5.39	117.69	110.35
1	Ai	190	ALA	N-CA-C	-5.39	104.05	111.81
2	CI	85	SER	N-CA-C	5.39	117.90	110.35
3	DU	201	LYS	N-CA-C	5.39	118.50	110.14
1	A4	190	ALA	N-CA-C	-5.39	104.05	111.81
1	A6	237	HIS	N-CA-C	-5.39	100.92	109.76
1	AX	237	HIS	N-CA-C	-5.39	100.92	109.76
2	C7	85	SER	N-CA-C	5.39	117.89	110.35
2	CL	163	LEU	N-CA-C	-5.39	100.61	109.40
2	CT	85	SER	N-CA-C	5.39	117.90	110.35
2	CZ	85	SER	N-CA-C	5.39	117.89	110.35
2	Cc	163	LEU	N-CA-C	-5.39	100.62	109.40
2	Cg	163	LEU	N-CA-C	-5.39	100.61	109.40
3	D4	88	THR	N-CA-C	5.39	117.68	110.35
3	DE	88	THR	N-CA-C	5.39	117.68	110.35
3	De	88	THR	N-CA-C	5.39	117.68	110.35
1	A7	190	ALA	N-CA-C	-5.39	104.05	111.81
1	AJ	190	ALA	N-CA-C	-5.39	104.05	111.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AU	190	ALA	N-CA-C	-5.39	104.05	111.81
2	C3	163	LEU	N-CA-C	-5.39	100.62	109.40
3	D2	201	LYS	N-CA-C	5.39	118.49	110.14
3	D8	88	THR	N-CA-C	5.39	117.68	110.35
3	DD	88	THR	N-CA-C	5.39	117.68	110.35
3	DL	88	THR	N-CA-C	5.39	117.68	110.35
3	DQ	201	LYS	N-CA-C	5.39	118.49	110.14
1	A9	237	HIS	N-CA-C	-5.39	100.93	109.76
1	AA	190	ALA	N-CA-C	-5.39	104.05	111.81
1	AB	190	ALA	N-CA-C	-5.39	104.06	111.81
1	AY	224	ILE	CA-C-N	5.39	125.93	120.38
1	AY	224	ILE	C-N-CA	5.39	125.93	120.38
1	Ao	190	ALA	N-CA-C	-5.39	104.05	111.81
2	CO	163	LEU	N-CA-C	-5.39	100.62	109.40
2	CW	85	SER	N-CA-C	5.39	117.89	110.35
2	CY	85	SER	N-CA-C	5.39	117.89	110.35
2	Co	85	SER	N-CA-C	5.39	117.89	110.35
3	Dl	201	LYS	N-CA-C	5.39	118.49	110.14
3	Dq	88	THR	N-CA-C	5.39	117.67	110.35
3	EB	88	THR	N-CA-C	5.39	117.68	110.35
1	AD	190	ALA	N-CA-C	-5.38	104.06	111.81
1	AT	224	ILE	CA-C-N	5.38	125.93	120.38
1	AT	224	ILE	C-N-CA	5.38	125.93	120.38
1	Aa	190	ALA	N-CA-C	-5.38	104.06	111.81
1	Ac	190	ALA	N-CA-C	-5.38	104.06	111.81
1	Aj	190	ALA	N-CA-C	-5.38	104.06	111.81
1	Ao	237	HIS	N-CA-C	-5.38	100.93	109.76
2	CA	85	SER	N-CA-C	5.38	117.89	110.35
2	Cv	85	SER	N-CA-C	5.38	117.89	110.35
3	De	201	LYS	N-CA-C	5.38	118.49	110.14
3	Dm	88	THR	N-CA-C	5.38	117.67	110.35
1	A3	224	ILE	CA-C-N	5.38	125.92	120.38
1	A3	224	ILE	C-N-CA	5.38	125.92	120.38
1	AL	224	ILE	CA-C-N	5.38	125.92	120.38
1	AL	224	ILE	C-N-CA	5.38	125.92	120.38
1	Af	237	HIS	N-CA-C	-5.38	100.93	109.76
1	Ai	224	ILE	CA-C-N	5.38	125.92	120.38
1	Ai	224	ILE	C-N-CA	5.38	125.92	120.38
1	BA	237	HIS	N-CA-C	-5.38	100.93	109.76
1	BE	190	ALA	N-CA-C	-5.38	104.06	111.81
3	D8	201	LYS	N-CA-C	5.38	118.48	110.14
1	Aj	224	ILE	CA-C-N	5.38	125.92	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Aj	224	ILE	C-N-CA	5.38	125.92	120.38
1	BD	190	ALA	N-CA-C	-5.38	104.06	111.81
2	CP	85	SER	N-CA-C	5.38	117.88	110.35
3	DP	88	THR	N-CA-C	5.38	117.67	110.35
3	DQ	88	THR	N-CA-C	5.38	117.67	110.35
3	Ds	88	THR	N-CA-C	5.38	117.67	110.35
1	A6	224	ILE	CA-C-N	5.38	125.92	120.38
1	A6	224	ILE	C-N-CA	5.38	125.92	120.38
1	AE	190	ALA	N-CA-C	-5.38	104.06	111.81
2	CK	85	SER	N-CA-C	5.38	117.88	110.35
2	CN	85	SER	N-CA-C	5.38	117.88	110.35
2	Cp	85	SER	N-CA-C	5.38	117.88	110.35
3	DN	201	LYS	N-CA-C	5.38	118.48	110.14
3	DO	88	THR	N-CA-C	5.38	117.67	110.35
3	DR	88	THR	N-CA-C	5.38	117.67	110.35
3	DR	201	LYS	N-CA-C	5.38	118.48	110.14
3	EA	201	LYS	N-CA-C	5.38	118.48	110.14
1	AM	224	ILE	CA-C-N	5.38	125.92	120.38
1	AM	224	ILE	C-N-CA	5.38	125.92	120.38
1	BF	237	HIS	N-CA-C	-5.38	100.94	109.76
2	C8	85	SER	N-CA-C	5.38	117.88	110.35
2	Cd	85	SER	N-CA-C	5.38	117.88	110.35
2	Cp	163	LEU	N-CA-C	-5.38	100.64	109.40
3	DL	201	LYS	N-CA-C	5.38	118.47	110.14
3	DP	201	LYS	N-CA-C	5.38	118.47	110.14
3	DX	82	ALA	N-CA-C	-5.38	102.92	110.50
1	A5	237	HIS	N-CA-C	-5.38	100.94	109.76
1	Al	237	HIS	N-CA-C	-5.38	100.94	109.76
2	C2	85	SER	N-CA-C	5.38	117.88	110.35
1	A5	224	ILE	CA-C-N	5.37	125.92	120.38
1	A5	224	ILE	C-N-CA	5.37	125.92	120.38
1	A8	237	HIS	N-CA-C	-5.37	100.95	109.76
1	AH	190	ALA	N-CA-C	-5.37	104.07	111.81
1	AP	224	ILE	CA-C-N	5.37	125.92	120.38
1	AP	224	ILE	C-N-CA	5.37	125.92	120.38
2	C0	85	SER	N-CA-C	5.37	117.87	110.35
2	CL	85	SER	N-CA-C	5.37	117.87	110.35
2	Cw	85	SER	N-CA-C	5.37	117.87	110.35
3	D1	201	LYS	N-CA-C	5.37	118.47	110.14
3	D4	201	LYS	N-CA-C	5.37	118.47	110.14
3	D6	201	LYS	N-CA-C	5.37	118.47	110.14
3	DJ	119	LYS	CD-CE-NZ	5.37	129.09	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Di	88	THR	N-CA-C	5.37	117.66	110.35
1	A8	224	ILE	CA-C-N	5.37	125.91	120.38
1	A8	224	ILE	C-N-CA	5.37	125.91	120.38
1	AG	190	ALA	N-CA-C	-5.37	104.08	111.81
1	AW	237	HIS	N-CA-C	-5.37	100.95	109.76
1	Ae	190	ALA	N-CA-C	-5.37	104.08	111.81
1	Am	237	HIS	N-CA-C	-5.37	100.95	109.76
1	BB	190	ALA	N-CA-C	-5.37	104.08	111.81
1	BB	237	HIS	N-CA-C	-5.37	100.95	109.76
1	BC	237	HIS	N-CA-C	-5.37	100.95	109.76
2	Ci	85	SER	N-CA-C	5.37	117.87	110.35
3	D2	88	THR	N-CA-C	5.37	117.66	110.35
3	DA	201	LYS	N-CA-C	5.37	118.47	110.14
3	DB	201	LYS	N-CA-C	5.37	118.46	110.14
3	DD	119	LYS	CD-CE-NZ	5.37	129.09	111.90
3	DT	201	LYS	N-CA-C	5.37	118.47	110.14
3	Dk	201	LYS	N-CA-C	5.37	118.47	110.14
3	EB	201	LYS	N-CA-C	5.37	118.47	110.14
3	EC	201	LYS	N-CA-C	5.37	118.47	110.14
1	A7	224	ILE	CA-C-N	5.37	125.91	120.38
1	A7	224	ILE	C-N-CA	5.37	125.91	120.38
1	Ae	224	ILE	CA-C-N	5.37	125.91	120.38
1	Ae	224	ILE	C-N-CA	5.37	125.91	120.38
1	BC	190	ALA	N-CA-C	-5.37	104.08	111.81
1	BI	237	HIS	N-CA-C	-5.37	100.95	109.76
2	CD	85	SER	N-CA-C	5.37	117.87	110.35
2	CE	85	SER	N-CA-C	5.37	117.87	110.35
3	Do	201	LYS	N-CA-C	5.37	118.46	110.14
1	AN	190	ALA	N-CA-C	-5.37	104.08	111.81
1	AS	237	HIS	N-CA-C	-5.37	100.95	109.76
1	Ak	190	ALA	N-CA-C	-5.37	104.08	111.81
3	D9	201	LYS	N-CA-C	5.37	118.46	110.14
3	Dq	201	LYS	N-CA-C	5.37	118.46	110.14
3	Dr	201	LYS	N-CA-C	5.37	118.46	110.14
3	EE	88	THR	N-CA-C	5.37	117.65	110.35
1	AF	190	ALA	N-CA-C	-5.37	104.08	111.81
2	Cx	85	SER	N-CA-C	5.37	117.86	110.35
3	DZ	201	LYS	N-CA-C	5.37	118.46	110.14
3	Dd	201	LYS	N-CA-C	5.37	118.46	110.14
3	EE	201	LYS	N-CA-C	5.37	118.46	110.14
1	A3	190	ALA	N-CA-C	-5.37	104.08	111.81
1	A7	237	HIS	N-CA-C	-5.37	100.96	109.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AS	224	ILE	CA-C-N	5.37	125.91	120.38
1	AS	224	ILE	C-N-CA	5.37	125.91	120.38
1	AY	237	HIS	N-CA-C	-5.37	100.96	109.76
1	Ai	237	HIS	N-CA-C	-5.37	100.96	109.76
1	BG	224	ILE	CA-C-N	5.37	125.91	120.38
1	BG	224	ILE	C-N-CA	5.37	125.91	120.38
2	C4	85	SER	N-CA-C	5.37	117.86	110.35
2	C4	163	LEU	N-CA-C	-5.37	100.65	109.40
3	DC	119	LYS	CD-CE-NZ	5.37	129.07	111.90
3	DT	119	LYS	CD-CE-NZ	5.37	129.07	111.90
3	DV	201	LYS	N-CA-C	5.37	118.46	110.14
1	AB	237	HIS	N-CA-C	-5.36	100.96	109.76
1	AG	224	ILE	CA-C-N	5.36	125.90	120.38
1	AG	224	ILE	C-N-CA	5.36	125.90	120.38
1	AQ	237	HIS	N-CA-C	-5.36	100.96	109.76
1	Ae	237	HIS	N-CA-C	-5.36	100.97	109.76
1	Ag	224	ILE	CA-C-N	5.36	125.91	120.38
1	Ag	224	ILE	C-N-CA	5.36	125.91	120.38
1	BE	224	ILE	CA-C-N	5.36	125.90	120.38
1	BE	224	ILE	C-N-CA	5.36	125.90	120.38
2	CQ	85	SER	N-CA-C	5.36	117.86	110.35
3	D5	119	LYS	CD-CE-NZ	5.36	129.07	111.90
3	DM	201	LYS	N-CA-C	5.36	118.45	110.14
3	Da	201	LYS	N-CA-C	5.36	118.45	110.14
3	Db	119	LYS	CD-CE-NZ	5.36	129.06	111.90
3	Dd	119	LYS	CD-CE-NZ	5.36	129.06	111.90
3	Df	119	LYS	CD-CE-NZ	5.36	129.06	111.90
2	C1	85	SER	N-CA-C	5.36	117.86	110.35
1	A9	224	ILE	CA-C-N	5.36	125.90	120.38
1	A9	224	ILE	C-N-CA	5.36	125.90	120.38
1	AI	190	ALA	N-CA-C	-5.36	104.09	111.81
1	Ab	224	ILE	CA-C-N	5.36	125.90	120.38
1	Ab	224	ILE	C-N-CA	5.36	125.90	120.38
1	Aj	237	HIS	N-CA-C	-5.36	100.97	109.76
1	An	224	ILE	CA-C-N	5.36	125.90	120.38
1	An	224	ILE	C-N-CA	5.36	125.90	120.38
2	C9	85	SER	N-CA-C	5.36	117.86	110.35
2	CU	85	SER	N-CA-C	5.36	117.86	110.35
3	DI	201	LYS	N-CA-C	5.36	118.45	110.14
3	DK	119	LYS	CD-CE-NZ	5.36	129.06	111.90
3	DZ	82	ALA	N-CA-C	-5.36	102.94	110.50
3	DZ	88	THR	N-CA-C	5.36	117.64	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Dn	201	LYS	N-CA-C	5.36	118.45	110.14
3	Dq	119	LYS	CD-CE-NZ	5.36	129.05	111.90
3	ED	88	THR	N-CA-C	5.36	117.64	110.35
1	AL	237	HIS	N-CA-C	-5.36	100.97	109.76
1	BG	190	ALA	N-CA-C	-5.36	104.09	111.81
3	D1	119	LYS	CD-CE-NZ	5.36	129.05	111.90
3	DE	201	LYS	N-CA-C	5.36	118.45	110.14
3	DN	119	LYS	CD-CE-NZ	5.36	129.05	111.90
3	Do	119	LYS	CD-CE-NZ	5.36	129.05	111.90
3	Dp	119	LYS	CD-CE-NZ	5.36	129.05	111.90
1	A5	190	ALA	N-CA-C	-5.36	104.09	111.81
1	AP	190	ALA	N-CA-C	-5.36	104.09	111.81
1	AP	237	HIS	N-CA-C	-5.36	100.97	109.76
1	AR	237	HIS	N-CA-C	-5.36	100.97	109.76
1	AZ	237	HIS	N-CA-C	-5.36	100.97	109.76
1	Ac	237	HIS	N-CA-C	-5.36	100.97	109.76
1	Ak	237	HIS	N-CA-C	-5.36	100.97	109.76
3	DB	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	DG	119	LYS	CD-CE-NZ	5.36	129.05	111.90
3	DI	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	DO	201	LYS	N-CA-C	5.36	118.44	110.14
3	DP	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	DV	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	DZ	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	Db	201	LYS	N-CA-C	5.36	118.44	110.14
1	BD	237	HIS	N-CA-C	-5.36	100.98	109.76
3	D2	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	D4	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	D6	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	D9	82	ALA	N-CA-C	-5.36	102.95	110.50
3	DD	201	LYS	N-CA-C	5.36	118.44	110.14
3	DG	201	LYS	N-CA-C	5.36	118.44	110.14
3	Dg	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	Dg	201	LYS	N-CA-C	5.36	118.44	110.14
3	Di	201	LYS	N-CA-C	5.36	118.44	110.14
3	Dk	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	DI	119	LYS	CD-CE-NZ	5.36	129.04	111.90
3	Dm	119	LYS	CD-CE-NZ	5.36	129.04	111.90
1	A1	237	HIS	N-CA-C	-5.35	100.98	109.76
1	AG	237	HIS	N-CA-C	-5.35	100.98	109.76
1	Af	224	ILE	CA-C-N	5.35	125.89	120.38
1	Af	224	ILE	C-N-CA	5.35	125.89	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DL	119	LYS	CD-CE-NZ	5.35	129.03	111.90
1	A0	237	HIS	N-CA-C	-5.35	100.98	109.76
1	A2	224	ILE	CA-C-N	5.35	125.89	120.38
1	A2	224	ILE	C-N-CA	5.35	125.89	120.38
1	A4	237	HIS	N-CA-C	-5.35	100.98	109.76
1	Ah	224	ILE	CA-C-N	5.35	125.89	120.38
1	Ah	224	ILE	C-N-CA	5.35	125.89	120.38
1	An	237	HIS	N-CA-C	-5.35	100.98	109.76
3	D0	119	LYS	CD-CE-NZ	5.35	129.03	111.90
3	D7	119	LYS	CD-CE-NZ	5.35	129.03	111.90
3	DE	119	LYS	CD-CE-NZ	5.35	129.03	111.90
3	DF	119	LYS	CD-CE-NZ	5.35	129.03	111.90
1	AH	224	ILE	CA-C-N	5.35	125.89	120.38
1	AH	224	ILE	C-N-CA	5.35	125.89	120.38
1	AI	224	ILE	CA-C-N	5.35	125.89	120.38
1	AI	224	ILE	C-N-CA	5.35	125.89	120.38
1	Aa	237	HIS	N-CA-C	-5.35	100.98	109.76
3	D0	201	LYS	N-CA-C	5.35	118.43	110.14
3	D9	119	LYS	CD-CE-NZ	5.35	129.02	111.90
3	DH	201	LYS	N-CA-C	5.35	118.43	110.14
3	DQ	119	LYS	CD-CE-NZ	5.35	129.02	111.90
3	DX	119	LYS	CD-CE-NZ	5.35	129.02	111.90
3	EB	119	LYS	CD-CE-NZ	5.35	129.02	111.90
1	A3	237	HIS	N-CA-C	-5.35	100.99	109.76
2	CC	85	SER	N-CA-C	5.35	117.84	110.35
2	CH	85	SER	N-CA-C	5.35	117.84	110.35
3	DU	119	LYS	CD-CE-NZ	5.35	129.02	111.90
3	Dc	119	LYS	CD-CE-NZ	5.35	129.02	111.90
3	Dh	119	LYS	CD-CE-NZ	5.35	129.02	111.90
3	ED	119	LYS	CD-CE-NZ	5.35	129.02	111.90
1	AJ	237	HIS	N-CA-C	-5.35	100.99	109.76
1	AK	237	HIS	N-CA-C	-5.35	100.99	109.76
3	DA	119	LYS	CD-CE-NZ	5.35	129.01	111.90
3	DS	201	LYS	N-CA-C	5.35	118.43	110.14
3	Dg	82	ALA	N-CA-C	-5.35	102.96	110.50
3	Di	119	LYS	CD-CE-NZ	5.35	129.01	111.90
3	EA	119	LYS	CD-CE-NZ	5.35	129.01	111.90
1	AD	237	HIS	N-CA-C	-5.35	100.99	109.76
1	AQ	224	ILE	CA-C-N	5.35	125.89	120.38
1	AQ	224	ILE	C-N-CA	5.35	125.89	120.38
1	BG	237	HIS	N-CA-C	-5.35	100.99	109.76
3	DM	82	ALA	N-CA-C	-5.35	102.96	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DO	119	LYS	CD-CE-NZ	5.35	129.01	111.90
3	Dr	119	LYS	CD-CE-NZ	5.35	129.01	111.90
3	Ds	119	LYS	CD-CE-NZ	5.35	129.01	111.90
3	D5	201	LYS	N-CA-C	5.34	118.42	110.14
3	DJ	88	THR	N-CA-C	5.34	117.62	110.35
3	DJ	201	LYS	N-CA-C	5.34	118.42	110.14
3	DM	119	LYS	CD-CE-NZ	5.34	129.00	111.90
3	DS	119	LYS	CD-CE-NZ	5.34	129.00	111.90
3	DY	119	LYS	CD-CE-NZ	5.34	129.00	111.90
3	Dp	201	LYS	N-CA-C	5.34	118.42	110.14
1	AR	224	ILE	CA-C-N	5.34	125.88	120.38
1	AR	224	ILE	C-N-CA	5.34	125.88	120.38
3	EB	82	ALA	N-CA-C	-5.34	102.97	110.50
3	EC	119	LYS	CD-CE-NZ	5.34	129.00	111.90
1	AA	237	HIS	N-CA-C	-5.34	101.00	109.76
1	AK	224	ILE	CA-C-N	5.34	125.88	120.38
1	AK	224	ILE	C-N-CA	5.34	125.88	120.38
1	AM	237	HIS	N-CA-C	-5.34	101.00	109.76
1	AU	224	ILE	CA-C-N	5.34	125.88	120.38
1	AU	224	ILE	C-N-CA	5.34	125.88	120.38
1	Ag	237	HIS	N-CA-C	-5.34	101.00	109.76
2	Cm	85	SER	N-CA-C	5.34	117.83	110.35
3	D3	119	LYS	CD-CE-NZ	5.34	129.00	111.90
3	DF	82	ALA	N-CA-C	-5.34	102.97	110.50
3	DH	119	LYS	CD-CE-NZ	5.34	129.00	111.90
3	Dg	88	THR	N-CA-C	5.34	117.61	110.35
1	AC	224	ILE	CA-C-N	5.34	125.88	120.38
1	AC	224	ILE	C-N-CA	5.34	125.88	120.38
1	AF	237	HIS	N-CA-C	-5.34	101.00	109.76
1	AJ	224	ILE	CA-C-N	5.34	125.88	120.38
1	AJ	224	ILE	C-N-CA	5.34	125.88	120.38
1	AT	237	HIS	N-CA-C	-5.34	101.00	109.76
2	C7	104	VAL	CB-CA-C	-5.34	103.21	110.42
3	D0	82	ALA	N-CA-C	-5.34	102.97	110.50
3	DR	119	LYS	CD-CE-NZ	5.34	128.98	111.90
3	DW	119	LYS	CD-CE-NZ	5.34	128.99	111.90
3	Df	82	ALA	N-CA-C	-5.34	102.97	110.50
3	Dr	193	SER	N-CA-C	5.34	117.51	109.23
1	BC	224	ILE	CA-C-N	5.34	125.88	120.38
1	BC	224	ILE	C-N-CA	5.34	125.88	120.38
3	DV	193	SER	N-CA-C	5.34	117.50	109.23
1	AG	232	ALA	N-CA-C	-5.34	100.54	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Am	190	ALA	N-CA-C	-5.34	104.12	111.81
3	DG	82	ALA	N-CA-C	-5.34	102.97	110.50
3	DL	82	ALA	N-CA-C	-5.34	102.98	110.50
3	DO	82	ALA	N-CA-C	-5.34	102.98	110.50
3	Da	119	LYS	CD-CE-NZ	5.34	128.97	111.90
3	Dn	119	LYS	CD-CE-NZ	5.34	128.98	111.90
3	Dr	82	ALA	N-CA-C	-5.34	102.97	110.50
1	AF	224	ILE	CA-C-N	5.33	125.88	120.38
1	AF	224	ILE	C-N-CA	5.33	125.88	120.38
2	CP	62	TYR	N-CA-C	-5.33	96.06	111.00
3	EE	119	LYS	CD-CE-NZ	5.33	128.97	111.90
1	AI	237	HIS	N-CA-C	-5.33	101.01	109.76
1	Ao	224	ILE	CA-C-N	5.33	125.88	120.38
1	Ao	224	ILE	C-N-CA	5.33	125.88	120.38
1	BH	237	HIS	N-CA-C	-5.33	101.01	109.76
2	C5	62	TYR	N-CA-C	-5.33	96.07	111.00
2	CM	62	TYR	N-CA-C	-5.33	96.06	111.00
3	D8	119	LYS	CD-CE-NZ	5.33	128.97	111.90
3	DK	193	SER	N-CA-C	5.33	117.50	109.23
3	De	119	LYS	CD-CE-NZ	5.33	128.97	111.90
3	Df	193	SER	N-CA-C	5.33	117.50	109.23
3	Dn	82	ALA	N-CA-C	-5.33	102.98	110.50
3	ED	82	ALA	N-CA-C	-5.33	102.98	110.50
1	Am	224	ILE	CA-C-N	5.33	125.87	120.38
1	Am	224	ILE	C-N-CA	5.33	125.87	120.38
1	BB	224	ILE	CA-C-N	5.33	125.87	120.38
1	BB	224	ILE	C-N-CA	5.33	125.87	120.38
1	BI	224	ILE	CA-C-N	5.33	125.87	120.38
1	BI	224	ILE	C-N-CA	5.33	125.87	120.38
3	Db	82	ALA	N-CA-C	-5.33	102.98	110.50
1	A1	224	ILE	CA-C-N	5.33	125.87	120.38
1	A1	224	ILE	C-N-CA	5.33	125.87	120.38
1	AO	237	HIS	N-CA-C	-5.33	101.02	109.76
2	Cj	134	HIS	N-CA-C	5.33	122.15	110.80
2	Cq	85	SER	N-CA-C	5.33	117.81	110.35
1	AN	237	HIS	N-CA-C	-5.33	101.02	109.76
1	Ah	237	HIS	N-CA-C	-5.33	101.02	109.76
1	BA	224	ILE	CA-C-N	5.33	125.87	120.38
1	BA	224	ILE	C-N-CA	5.33	125.87	120.38
1	BE	237	HIS	N-CA-C	-5.33	101.02	109.76
3	DK	201	LYS	N-CA-C	5.33	118.40	110.14
3	Da	82	ALA	N-CA-C	-5.33	102.99	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Df	201	LYS	N-CA-C	5.33	118.40	110.14
3	Dj	119	LYS	CD-CE-NZ	5.33	128.95	111.90
3	Ds	201	LYS	N-CA-C	5.33	118.40	110.14
1	AE	224	ILE	CA-C-N	5.33	125.87	120.38
1	AE	224	ILE	C-N-CA	5.33	125.87	120.38
1	AO	224	ILE	CA-C-N	5.33	125.87	120.38
1	AO	224	ILE	C-N-CA	5.33	125.87	120.38
1	AV	237	HIS	N-CA-C	-5.33	101.02	109.76
2	C2	62	TYR	N-CA-C	-5.33	96.09	111.00
2	C6	62	TYR	N-CA-C	-5.33	96.08	111.00
3	DE	82	ALA	N-CA-C	-5.33	102.99	110.50
1	A2	237	HIS	N-CA-C	-5.33	101.03	109.76
1	AH	237	HIS	N-CA-C	-5.33	101.03	109.76
1	Ad	237	HIS	N-CA-C	-5.33	101.03	109.76
3	D6	82	ALA	N-CA-C	-5.33	102.99	110.50
3	DC	82	ALA	N-CA-C	-5.33	102.99	110.50
3	Dh	82	ALA	N-CA-C	-5.33	102.99	110.50
2	C4	62	TYR	N-CA-C	-5.32	96.09	111.00
2	CQ	62	TYR	N-CA-C	-5.32	96.09	111.00
2	Ck	62	TYR	N-CA-C	-5.32	96.10	111.00
3	D3	193	SER	N-CA-C	5.32	117.48	109.23
3	DJ	82	ALA	N-CA-C	-5.32	103.00	110.50
3	Dd	82	ALA	N-CA-C	-5.32	103.00	110.50
3	EA	82	ALA	N-CA-C	-5.32	102.99	110.50
2	C8	62	TYR	N-CA-C	-5.32	96.10	111.00
2	CC	104	VAL	CB-CA-C	-5.32	103.24	110.42
2	CV	62	TYR	N-CA-C	-5.32	96.10	111.00
2	Ca	134	HIS	N-CA-C	5.32	122.14	110.80
3	DP	82	ALA	N-CA-C	-5.32	103.00	110.50
1	A4	52	PRO	N-CA-C	5.32	120.50	111.03
1	AD	224	ILE	CA-C-N	5.32	125.86	120.38
1	AD	224	ILE	C-N-CA	5.32	125.86	120.38
1	AW	224	ILE	CA-C-N	5.32	125.86	120.38
1	AW	224	ILE	C-N-CA	5.32	125.86	120.38
1	Ab	237	HIS	N-CA-C	-5.32	101.03	109.76
2	C7	62	TYR	N-CA-C	-5.32	96.10	111.00
2	CF	104	VAL	CB-CA-C	-5.32	103.24	110.42
2	Ct	62	TYR	N-CA-C	-5.32	96.10	111.00
3	D3	201	LYS	N-CA-C	5.32	118.39	110.14
3	Dc	193	SER	N-CA-C	5.32	117.48	109.23
3	Dk	193	SER	N-CA-C	5.32	117.48	109.23
3	Dl	193	SER	N-CA-C	5.32	117.48	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Dq	82	ALA	N-CA-C	-5.32	103.00	110.50
3	D7	82	ALA	N-CA-C	-5.32	103.00	110.50
3	DB	82	ALA	N-CA-C	-5.32	103.00	110.50
3	DH	193	SER	N-CA-C	5.32	117.47	109.23
3	DK	82	ALA	N-CA-C	-5.32	103.00	110.50
3	DY	82	ALA	N-CA-C	-5.32	103.00	110.50
3	Dp	193	SER	N-CA-C	5.32	117.47	109.23
1	A0	224	ILE	CA-C-N	5.32	125.86	120.38
1	A0	224	ILE	C-N-CA	5.32	125.86	120.38
2	CE	62	TYR	N-CA-C	-5.32	96.11	111.00
2	CM	134	HIS	N-CA-C	5.32	122.12	110.80
2	Co	62	TYR	N-CA-C	-5.32	96.11	111.00
3	DN	82	ALA	N-CA-C	-5.32	103.00	110.50
3	Dh	193	SER	N-CA-C	5.32	117.47	109.23
3	Dm	82	ALA	N-CA-C	-5.32	103.00	110.50
1	A5	232	ALA	N-CA-C	-5.32	100.58	109.24
1	AX	224	ILE	CA-C-N	5.32	125.86	120.38
1	AX	224	ILE	C-N-CA	5.32	125.86	120.38
2	C1	104	VAL	CB-CA-C	-5.32	103.25	110.42
2	CD	62	TYR	N-CA-C	-5.32	96.12	111.00
2	CW	62	TYR	N-CA-C	-5.32	96.11	111.00
2	Cx	62	TYR	N-CA-C	-5.32	96.12	111.00
3	DD	193	SER	N-CA-C	5.32	117.47	109.23
3	Dj	82	ALA	N-CA-C	-5.32	103.01	110.50
2	CA	62	TYR	N-CA-C	-5.31	96.12	111.00
2	CC	62	TYR	N-CA-C	-5.31	96.12	111.00
2	CX	62	TYR	N-CA-C	-5.31	96.12	111.00
2	Cf	134	HIS	N-CA-C	5.31	122.12	110.80
2	Cl	62	TYR	N-CA-C	-5.31	96.12	111.00
2	Cu	62	TYR	N-CA-C	-5.31	96.12	111.00
3	Dj	193	SER	N-CA-C	5.31	117.47	109.23
3	Dp	82	ALA	N-CA-C	-5.31	103.01	110.50
2	CI	62	TYR	N-CA-C	-5.31	96.12	111.00
2	Cm	62	TYR	N-CA-C	-5.31	96.13	111.00
3	DE	53	PHE	N-CA-C	5.31	117.40	109.59
3	DI	82	ALA	N-CA-C	-5.31	103.01	110.50
3	DQ	193	SER	N-CA-C	5.31	117.47	109.23
3	DT	193	SER	N-CA-C	5.31	117.46	109.23
3	Di	82	ALA	N-CA-C	-5.31	103.01	110.50
3	Dl	82	ALA	N-CA-C	-5.31	103.01	110.50
2	CJ	62	TYR	N-CA-C	-5.31	96.13	111.00
2	Cc	62	TYR	N-CA-C	-5.31	96.13	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ci	62	TYR	N-CA-C	-5.31	96.13	111.00
2	Cm	134	HIS	N-CA-C	5.31	122.11	110.80
1	A2	232	ALA	N-CA-C	-5.31	100.59	109.24
1	AA	224	ILE	CA-C-N	5.31	125.85	120.38
1	AA	224	ILE	C-N-CA	5.31	125.85	120.38
1	Ah	52	PRO	N-CA-C	5.31	120.48	111.03
1	Ak	224	ILE	CA-C-N	5.31	125.85	120.38
1	Ak	224	ILE	C-N-CA	5.31	125.85	120.38
1	BB	52	PRO	N-CA-C	5.31	120.48	111.03
2	CQ	134	HIS	N-CA-C	5.31	122.11	110.80
2	CR	62	TYR	N-CA-C	-5.31	96.13	111.00
2	CS	62	TYR	N-CA-C	-5.31	96.13	111.00
2	Cf	62	TYR	N-CA-C	-5.31	96.13	111.00
2	Cw	62	TYR	N-CA-C	-5.31	96.13	111.00
3	DC	201	LYS	N-CA-C	5.31	118.37	110.14
3	DV	82	ALA	N-CA-C	-5.31	103.02	110.50
3	Db	193	SER	N-CA-C	5.31	117.46	109.23
3	Dc	201	LYS	N-CA-C	5.31	118.37	110.14
1	AN	52	PRO	N-CA-C	5.31	120.48	111.03
2	C0	62	TYR	N-CA-C	-5.31	96.14	111.00
2	CJ	104	VAL	CB-CA-C	-5.31	103.26	110.42
2	Cd	62	TYR	N-CA-C	-5.31	96.14	111.00
2	Ce	62	TYR	N-CA-C	-5.31	96.14	111.00
2	Cn	134	HIS	N-CA-C	5.31	122.11	110.80
3	DC	193	SER	N-CA-C	5.31	117.45	109.23
3	DH	82	ALA	N-CA-C	-5.31	103.02	110.50
3	DJ	193	SER	N-CA-C	5.31	117.46	109.23
3	DM	193	SER	N-CA-C	5.31	117.46	109.23
3	DQ	82	ALA	N-CA-C	-5.31	103.02	110.50
3	DU	82	ALA	N-CA-C	-5.31	103.02	110.50
1	BD	224	ILE	CA-C-N	5.31	125.84	120.38
1	BD	224	ILE	C-N-CA	5.31	125.84	120.38
1	BH	52	PRO	N-CA-C	5.31	120.47	111.03
2	CN	62	TYR	N-CA-C	-5.31	96.14	111.00
2	CO	62	TYR	N-CA-C	-5.31	96.14	111.00
2	Ch	104	VAL	CB-CA-C	-5.31	103.26	110.42
2	Cq	62	TYR	N-CA-C	-5.31	96.14	111.00
3	D5	193	SER	N-CA-C	5.31	117.45	109.23
1	AI	232	ALA	N-CA-C	-5.30	100.59	109.24
2	CB	62	TYR	N-CA-C	-5.30	96.15	111.00
2	CB	134	HIS	N-CA-C	5.30	122.10	110.80
2	CC	134	HIS	N-CA-C	5.30	122.10	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ca	62	TYR	N-CA-C	-5.30	96.15	111.00
3	D1	82	ALA	N-CA-C	-5.30	103.02	110.50
3	D4	82	ALA	N-CA-C	-5.30	103.02	110.50
3	DE	193	SER	N-CA-C	5.30	117.45	109.23
3	DY	193	SER	N-CA-C	5.30	117.45	109.23
3	Dn	193	SER	N-CA-C	5.30	117.45	109.23
3	EE	193	SER	N-CA-C	5.30	117.45	109.23
2	C7	134	HIS	N-CA-C	5.30	122.10	110.80
2	Cg	62	TYR	N-CA-C	-5.30	96.15	111.00
2	Cq	134	HIS	N-CA-C	5.30	122.10	110.80
3	DO	193	SER	N-CA-C	5.30	117.45	109.23
3	DW	193	SER	N-CA-C	5.30	117.45	109.23
3	Ds	82	ALA	N-CA-C	-5.30	103.02	110.50
1	A4	224	ILE	CA-C-N	5.30	125.84	120.38
1	A4	224	ILE	C-N-CA	5.30	125.84	120.38
1	AJ	88	PHE	N-CA-C	5.30	122.09	110.80
1	Ab	88	PHE	N-CA-C	5.30	122.09	110.80
1	Al	224	ILE	CA-C-N	5.30	125.84	120.38
1	Al	224	ILE	C-N-CA	5.30	125.84	120.38
2	CF	134	HIS	N-CA-C	5.30	122.09	110.80
2	CG	62	TYR	N-CA-C	-5.30	96.15	111.00
2	CY	62	TYR	N-CA-C	-5.30	96.16	111.00
2	Cb	62	TYR	N-CA-C	-5.30	96.16	111.00
2	Ch	62	TYR	N-CA-C	-5.30	96.16	111.00
2	Ck	134	HIS	N-CA-C	5.30	122.09	110.80
2	Cr	62	TYR	N-CA-C	-5.30	96.16	111.00
2	Cv	62	TYR	N-CA-C	-5.30	96.16	111.00
3	DA	82	ALA	N-CA-C	-5.30	103.02	110.50
3	Da	193	SER	N-CA-C	5.30	117.45	109.23
3	Dk	82	ALA	N-CA-C	-5.30	103.03	110.50
3	Do	82	ALA	N-CA-C	-5.30	103.03	110.50
3	EA	193	SER	N-CA-C	5.30	117.45	109.23
1	Aa	224	ILE	CA-C-N	5.30	125.84	120.38
1	Aa	224	ILE	C-N-CA	5.30	125.84	120.38
1	Ad	232	ALA	N-CA-C	-5.30	100.60	109.24
2	CF	62	TYR	N-CA-C	-5.30	96.16	111.00
2	CH	104	VAL	CB-CA-C	-5.30	103.27	110.42
2	CK	62	TYR	N-CA-C	-5.30	96.16	111.00
2	CP	134	HIS	N-CA-C	5.30	122.09	110.80
3	D4	193	SER	N-CA-C	5.30	117.44	109.23
3	DD	82	ALA	N-CA-C	-5.30	103.03	110.50
1	Ab	232	ALA	N-CA-C	-5.30	100.61	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Al	232	ALA	N-CA-C	-5.30	100.60	109.24
2	C0	134	HIS	N-CA-C	5.30	122.08	110.80
2	Cl	134	HIS	N-CA-C	5.30	122.09	110.80
3	Dq	53	PHE	N-CA-C	5.30	117.38	109.59
1	Af	52	PRO	N-CA-C	5.30	120.46	111.03
1	BF	224	ILE	CA-C-N	5.30	125.84	120.38
1	BF	224	ILE	C-N-CA	5.30	125.84	120.38
1	BH	224	ILE	CA-C-N	5.30	125.83	120.38
1	BH	224	ILE	C-N-CA	5.30	125.83	120.38
2	C2	134	HIS	N-CA-C	5.30	122.08	110.80
2	C3	62	TYR	N-CA-C	-5.30	96.17	111.00
2	CD	134	HIS	N-CA-C	5.30	122.08	110.80
2	CL	134	HIS	N-CA-C	5.30	122.08	110.80
2	CU	62	TYR	N-CA-C	-5.30	96.17	111.00
2	Cn	62	TYR	N-CA-C	-5.30	96.17	111.00
3	D9	193	SER	N-CA-C	5.30	117.44	109.23
3	DT	82	ALA	N-CA-C	-5.30	103.03	110.50
2	C8	134	HIS	N-CA-C	5.29	122.08	110.80
2	Ce	134	HIS	N-CA-C	5.29	122.08	110.80
2	Cp	62	TYR	N-CA-C	-5.29	96.17	111.00
3	DC	53	PHE	N-CA-C	5.29	117.37	109.59
3	DI	193	SER	N-CA-C	5.29	117.44	109.23
3	Di	193	SER	N-CA-C	5.29	117.44	109.23
3	EC	193	SER	N-CA-C	5.29	117.44	109.23
1	AN	88	PHE	N-CA-C	5.29	122.08	110.80
1	AZ	224	ILE	CA-C-N	5.29	125.83	120.38
1	AZ	224	ILE	C-N-CA	5.29	125.83	120.38
2	C9	62	TYR	N-CA-C	-5.29	96.18	111.00
2	CL	62	TYR	N-CA-C	-5.29	96.18	111.00
2	CN	134	HIS	N-CA-C	5.29	122.07	110.80
2	CT	62	TYR	N-CA-C	-5.29	96.18	111.00
2	Cj	62	TYR	N-CA-C	-5.29	96.18	111.00
1	AJ	232	ALA	N-CA-C	-5.29	100.61	109.24
1	AU	52	PRO	N-CA-C	5.29	120.45	111.03
1	BG	52	PRO	N-CA-C	5.29	120.45	111.03
1	BH	232	ALA	N-CA-C	-5.29	100.62	109.24
2	C1	62	TYR	N-CA-C	-5.29	96.18	111.00
2	C5	134	HIS	N-CA-C	5.29	122.07	110.80
2	CH	62	TYR	N-CA-C	-5.29	96.18	111.00
2	CJ	134	HIS	N-CA-C	5.29	122.07	110.80
2	CM	104	VAL	CB-CA-C	-5.29	103.28	110.42
2	CP	104	VAL	CB-CA-C	-5.29	103.28	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CS	134	HIS	N-CA-C	5.29	122.07	110.80
2	CV	134	HIS	N-CA-C	5.29	122.07	110.80
2	CY	134	HIS	N-CA-C	5.29	122.07	110.80
2	Cb	104	VAL	CB-CA-C	-5.29	103.28	110.42
2	Co	134	HIS	N-CA-C	5.29	122.07	110.80
2	Cs	62	TYR	N-CA-C	-5.29	96.19	111.00
2	Cx	134	HIS	N-CA-C	5.29	122.07	110.80
3	Dc	82	ALA	N-CA-C	-5.29	103.04	110.50
3	De	82	ALA	N-CA-C	-5.29	103.04	110.50
3	EC	82	ALA	N-CA-C	-5.29	103.04	110.50
1	An	232	ALA	N-CA-C	-5.29	100.62	109.24
2	CK	134	HIS	N-CA-C	5.29	122.07	110.80
2	CV	104	VAL	CB-CA-C	-5.29	103.28	110.42
2	CX	134	HIS	N-CA-C	5.29	122.07	110.80
2	Ch	134	HIS	N-CA-C	5.29	122.07	110.80
1	A9	232	ALA	N-CA-C	-5.29	100.62	109.24
1	AS	88	PHE	N-CA-C	5.29	122.07	110.80
1	Ac	232	ALA	N-CA-C	-5.29	100.62	109.24
1	Aj	52	PRO	N-CA-C	5.29	120.44	111.03
2	CN	104	VAL	CB-CA-C	-5.29	103.28	110.42
2	CS	104	VAL	CB-CA-C	-5.29	103.28	110.42
2	CZ	62	TYR	N-CA-C	-5.29	96.19	111.00
2	Ct	104	VAL	CB-CA-C	-5.29	103.28	110.42
3	D7	193	SER	N-CA-C	5.29	117.43	109.23
3	DR	82	ALA	N-CA-C	-5.29	103.04	110.50
3	Ds	193	SER	N-CA-C	5.29	117.43	109.23
1	Ak	232	ALA	N-CA-C	-5.29	100.62	109.24
1	BF	232	ALA	N-CA-C	-5.29	100.62	109.24
2	C4	134	HIS	N-CA-C	5.29	122.06	110.80
2	Cc	134	HIS	N-CA-C	5.29	122.06	110.80
3	D5	82	ALA	N-CA-C	-5.29	103.05	110.50
3	DN	193	SER	N-CA-C	5.29	117.42	109.23
1	A0	232	ALA	N-CA-C	-5.29	100.62	109.24
1	A3	52	PRO	N-CA-C	5.29	120.44	111.03
1	A7	232	ALA	N-CA-C	-5.29	100.62	109.24
1	AN	232	ALA	N-CA-C	-5.29	100.63	109.24
1	AU	232	ALA	N-CA-C	-5.29	100.62	109.24
1	BE	232	ALA	N-CA-C	-5.29	100.62	109.24
2	C3	134	HIS	N-CA-C	5.29	122.06	110.80
2	CD	104	VAL	CB-CA-C	-5.29	103.28	110.42
2	CT	134	HIS	N-CA-C	5.29	122.06	110.80
2	CU	134	HIS	N-CA-C	5.29	122.06	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CY	104	VAL	CB-CA-C	-5.29	103.28	110.42
2	Cg	104	VAL	CB-CA-C	-5.29	103.28	110.42
2	Ci	134	HIS	N-CA-C	5.29	122.06	110.80
2	Cs	104	VAL	CB-CA-C	-5.29	103.29	110.42
2	Cw	134	HIS	N-CA-C	5.29	122.06	110.80
3	DX	193	SER	N-CA-C	5.29	117.42	109.23
3	EE	82	ALA	N-CA-C	-5.29	103.05	110.50
1	AD	232	ALA	N-CA-C	-5.28	100.63	109.24
1	AX	232	ALA	N-CA-C	-5.28	100.63	109.24
1	Aa	232	ALA	N-CA-C	-5.28	100.63	109.24
1	Ag	52	PRO	N-CA-C	5.28	120.44	111.03
1	Ah	232	ALA	N-CA-C	-5.28	100.63	109.24
1	BB	88	PHE	N-CA-C	5.28	122.05	110.80
2	C1	134	HIS	N-CA-C	5.28	122.05	110.80
2	C9	134	HIS	N-CA-C	5.28	122.05	110.80
2	CH	134	HIS	N-CA-C	5.28	122.05	110.80
2	Cr	104	VAL	CB-CA-C	-5.28	103.29	110.42
3	D8	82	ALA	N-CA-C	-5.28	103.05	110.50
3	D8	193	SER	N-CA-C	5.28	117.42	109.23
3	DA	193	SER	N-CA-C	5.28	117.42	109.23
1	AT	232	ALA	N-CA-C	-5.28	100.63	109.24
1	BC	88	PHE	N-CA-C	5.28	122.05	110.80
2	C5	104	VAL	CB-CA-C	-5.28	103.29	110.42
3	D3	82	ALA	N-CA-C	-5.28	103.05	110.50
1	AW	52	PRO	N-CA-C	5.28	120.43	111.03
2	C3	104	VAL	CB-CA-C	-5.28	103.29	110.42
2	C6	134	HIS	N-CA-C	5.28	122.05	110.80
2	CI	134	HIS	N-CA-C	5.28	122.05	110.80
2	Cp	134	HIS	N-CA-C	5.28	122.05	110.80
3	D2	193	SER	N-CA-C	5.28	117.42	109.23
3	DB	193	SER	N-CA-C	5.28	117.42	109.23
3	De	53	PHE	N-CA-C	5.28	117.35	109.59
1	AC	52	PRO	N-CA-C	5.28	120.43	111.03
1	AD	88	PHE	N-CA-C	5.28	122.05	110.80
1	AM	232	ALA	N-CA-C	-5.28	100.64	109.24
1	AO	232	ALA	N-CA-C	-5.28	100.64	109.24
1	AP	88	PHE	N-CA-C	5.28	122.04	110.80
1	Af	232	ALA	N-CA-C	-5.28	100.64	109.24
2	CA	134	HIS	N-CA-C	5.28	122.04	110.80
2	Ck	104	VAL	CB-CA-C	-5.28	103.29	110.42
2	Cv	134	HIS	N-CA-C	5.28	122.04	110.80
3	DS	193	SER	N-CA-C	5.28	117.41	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	ED	193	SER	N-CA-C	5.28	117.41	109.23
1	A0	88	PHE	N-CA-C	5.28	122.04	110.80
1	AG	52	PRO	N-CA-C	5.28	120.42	111.03
1	AH	52	PRO	N-CA-C	5.28	120.42	111.03
1	AI	88	PHE	N-CA-C	5.28	122.04	110.80
1	AW	232	ALA	N-CA-C	-5.28	100.64	109.24
1	AZ	88	PHE	N-CA-C	5.28	122.04	110.80
1	Ac	88	PHE	N-CA-C	5.28	122.04	110.80
1	Ai	232	ALA	N-CA-C	-5.28	100.64	109.24
1	BE	88	PHE	N-CA-C	5.28	122.04	110.80
2	CW	134	HIS	N-CA-C	5.28	122.04	110.80
2	Cb	134	HIS	N-CA-C	5.28	122.04	110.80
2	Cc	104	VAL	CB-CA-C	-5.28	103.29	110.42
3	Dm	193	SER	N-CA-C	5.28	117.41	109.23
3	Dq	193	SER	N-CA-C	5.28	117.41	109.23
1	A6	88	PHE	N-CA-C	5.28	122.03	110.80
1	AK	232	ALA	N-CA-C	-5.28	100.64	109.24
1	AS	232	ALA	N-CA-C	-5.28	100.64	109.24
1	AV	232	ALA	N-CA-C	-5.28	100.64	109.24
1	AX	88	PHE	N-CA-C	5.28	122.04	110.80
1	Aa	88	PHE	N-CA-C	5.28	122.04	110.80
1	Ad	52	PRO	N-CA-C	5.28	120.42	111.03
1	Ae	52	PRO	N-CA-C	5.28	120.42	111.03
3	D0	193	SER	N-CA-C	5.28	117.41	109.23
3	DQ	53	PHE	N-CA-C	5.28	117.34	109.59
3	DR	193	SER	N-CA-C	5.28	117.41	109.23
3	EB	193	SER	N-CA-C	5.28	117.41	109.23
1	A3	88	PHE	N-CA-C	5.27	122.03	110.80
1	AF	232	ALA	N-CA-C	-5.27	100.64	109.24
1	Ae	232	ALA	N-CA-C	-5.27	100.64	109.24
2	CE	134	HIS	N-CA-C	5.27	122.03	110.80
2	Ci	104	VAL	CB-CA-C	-5.27	103.30	110.42
2	Cr	134	HIS	N-CA-C	5.27	122.03	110.80
3	DP	193	SER	N-CA-C	5.27	117.41	109.23
1	AE	52	PRO	N-CA-C	5.27	120.42	111.03
1	AP	52	PRO	N-CA-C	5.27	120.42	111.03
1	AW	88	PHE	N-CA-C	5.27	122.03	110.80
1	AZ	232	ALA	N-CA-C	-5.27	100.64	109.24
1	BC	52	PRO	N-CA-C	5.27	120.42	111.03
2	C9	104	VAL	CB-CA-C	-5.27	103.30	110.42
2	CU	104	VAL	CB-CA-C	-5.27	103.30	110.42
3	D2	82	ALA	N-CA-C	-5.27	103.07	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	EC	53	PHE	N-CA-C	5.27	117.34	109.59
1	A3	232	ALA	N-CA-C	-5.27	100.65	109.24
1	A7	88	PHE	N-CA-C	5.27	122.03	110.80
1	AM	88	PHE	N-CA-C	5.27	122.03	110.80
1	Ao	52	PRO	N-CA-C	5.27	120.41	111.03
1	BC	232	ALA	N-CA-C	-5.27	100.65	109.24
1	BD	88	PHE	N-CA-C	5.27	122.03	110.80
1	BI	52	PRO	N-CA-C	5.27	120.41	111.03
2	CK	104	VAL	CB-CA-C	-5.27	103.30	110.42
3	DU	53	PHE	N-CA-C	5.27	117.34	109.59
1	AH	232	ALA	N-CA-C	-5.27	100.65	109.24
1	AK	52	PRO	N-CA-C	5.27	120.41	111.03
1	AR	88	PHE	N-CA-C	5.27	122.03	110.80
1	AR	232	ALA	N-CA-C	-5.27	100.65	109.24
1	Ai	52	PRO	N-CA-C	5.27	120.41	111.03
1	Ao	232	ALA	N-CA-C	-5.27	100.65	109.24
1	BI	232	ALA	N-CA-C	-5.27	100.65	109.24
2	CR	104	VAL	CB-CA-C	-5.27	103.31	110.42
2	Cg	134	HIS	N-CA-C	5.27	122.02	110.80
3	DW	82	ALA	N-CA-C	-5.27	103.07	110.50
1	A5	88	PHE	N-CA-C	5.27	122.02	110.80
1	AA	52	PRO	N-CA-C	5.27	120.41	111.03
1	AB	88	PHE	N-CA-C	5.27	122.02	110.80
1	AT	88	PHE	N-CA-C	5.27	122.02	110.80
1	AU	88	PHE	N-CA-C	5.27	122.02	110.80
1	AX	52	PRO	N-CA-C	5.27	120.41	111.03
1	BA	232	ALA	N-CA-C	-5.27	100.65	109.24
3	DF	193	SER	N-CA-C	5.27	117.40	109.23
3	DW	53	PHE	N-CA-C	5.27	117.33	109.59
3	Dd	193	SER	N-CA-C	5.27	117.39	109.23
3	Dl	53	PHE	N-CA-C	5.27	117.33	109.59
1	A1	52	PRO	N-CA-C	5.27	120.40	111.03
1	AB	232	ALA	N-CA-C	-5.27	100.66	109.24
1	AF	88	PHE	N-CA-C	5.27	122.02	110.80
1	AQ	232	ALA	N-CA-C	-5.27	100.66	109.24
1	Ag	232	ALA	N-CA-C	-5.27	100.66	109.24
1	BA	52	PRO	N-CA-C	5.27	120.40	111.03
1	BH	88	PHE	N-CA-C	5.27	122.02	110.80
2	CX	104	VAL	CB-CA-C	-5.27	103.31	110.42
2	CZ	134	HIS	N-CA-C	5.27	122.02	110.80
2	Ct	134	HIS	N-CA-C	5.27	122.02	110.80
2	Cx	104	VAL	CB-CA-C	-5.27	103.31	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DS	82	ALA	N-CA-C	-5.27	103.07	110.50
3	Dg	193	SER	N-CA-C	5.27	117.39	109.23
1	A8	88	PHE	N-CA-C	5.26	122.01	110.80
1	AC	88	PHE	N-CA-C	5.26	122.01	110.80
1	AE	232	ALA	N-CA-C	-5.26	100.66	109.24
1	AF	52	PRO	N-CA-C	5.26	120.40	111.03
1	AG	88	PHE	N-CA-C	5.26	122.02	110.80
1	AL	88	PHE	N-CA-C	5.26	122.02	110.80
1	Al	88	PHE	N-CA-C	5.26	122.01	110.80
1	BI	88	PHE	N-CA-C	5.26	122.02	110.80
2	CL	104	VAL	CB-CA-C	-5.26	103.31	110.42
2	Ce	104	VAL	CB-CA-C	-5.26	103.31	110.42
2	Cs	134	HIS	N-CA-C	5.26	122.01	110.80
3	D3	53	PHE	N-CA-C	5.26	117.33	109.59
3	Dm	53	PHE	N-CA-C	5.26	117.33	109.59
3	Do	193	SER	N-CA-C	5.26	117.39	109.23
1	AL	232	ALA	N-CA-C	-5.26	100.66	109.24
1	BE	52	PRO	N-CA-C	5.26	120.40	111.03
2	Cl	104	VAL	CB-CA-C	-5.26	103.31	110.42
2	Cu	104	VAL	CB-CA-C	-5.26	103.31	110.42
2	Cv	104	VAL	CB-CA-C	-5.26	103.31	110.42
1	A1	232	ALA	N-CA-C	-5.26	100.66	109.24
1	A2	52	PRO	N-CA-C	5.26	120.40	111.03
1	A6	52	PRO	N-CA-C	5.26	120.40	111.03
1	A9	52	PRO	N-CA-C	5.26	120.40	111.03
1	AB	52	PRO	N-CA-C	5.26	120.39	111.03
1	AJ	52	PRO	N-CA-C	5.26	120.40	111.03
1	AK	88	PHE	N-CA-C	5.26	122.00	110.80
1	AO	88	PHE	N-CA-C	5.26	122.01	110.80
1	AT	52	PRO	N-CA-C	5.26	120.40	111.03
1	AZ	52	PRO	N-CA-C	5.26	120.39	111.03
1	Aa	52	PRO	N-CA-C	5.26	120.39	111.03
1	Aj	88	PHE	N-CA-C	5.26	122.00	110.80
1	Am	88	PHE	N-CA-C	5.26	122.01	110.80
1	BD	232	ALA	N-CA-C	-5.26	100.66	109.24
1	BG	232	ALA	N-CA-C	-5.26	100.66	109.24
2	CQ	104	VAL	CB-CA-C	-5.26	103.32	110.42
2	Cd	104	VAL	CB-CA-C	-5.26	103.32	110.42
2	Cw	104	VAL	CB-CA-C	-5.26	103.32	110.42
3	D1	193	SER	N-CA-C	5.26	117.39	109.23
3	D6	193	SER	N-CA-C	5.26	117.39	109.23
3	DG	193	SER	N-CA-C	5.26	117.38	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Da	53	PHE	N-CA-C	5.26	117.32	109.59
3	Dr	53	PHE	N-CA-C	5.26	117.32	109.59
1	A4	88	PHE	N-CA-C	5.26	122.00	110.80
1	A7	52	PRO	N-CA-C	5.26	120.39	111.03
1	AC	232	ALA	N-CA-C	-5.26	100.67	109.24
1	AY	232	ALA	N-CA-C	-5.26	100.67	109.24
1	BB	232	ALA	N-CA-C	-5.26	100.67	109.24
2	Cp	104	VAL	CB-CA-C	-5.26	103.32	110.42
3	DU	193	SER	N-CA-C	5.26	117.38	109.23
3	Dd	53	PHE	N-CA-C	5.26	117.32	109.59
1	A1	88	PHE	N-CA-C	5.26	122.00	110.80
1	Ak	52	PRO	N-CA-C	5.26	120.39	111.03
2	Cd	134	HIS	N-CA-C	5.26	122.00	110.80
3	De	193	SER	N-CA-C	5.26	117.38	109.23
1	AQ	88	PHE	N-CA-C	5.26	122.00	110.80
1	AR	52	PRO	N-CA-C	5.26	120.39	111.03
1	AV	88	PHE	N-CA-C	5.26	122.00	110.80
1	AY	88	PHE	N-CA-C	5.26	122.00	110.80
2	Cj	104	VAL	CB-CA-C	-5.26	103.32	110.42
1	Ak	88	PHE	N-CA-C	5.25	121.99	110.80
2	CZ	104	VAL	CB-CA-C	-5.25	103.33	110.42
1	A8	52	PRO	N-CA-C	5.25	120.38	111.03
1	Af	88	PHE	N-CA-C	5.25	121.99	110.80
1	Ao	88	PHE	N-CA-C	5.25	121.99	110.80
1	BA	88	PHE	N-CA-C	5.25	121.99	110.80
1	BF	88	PHE	N-CA-C	5.25	121.99	110.80
2	CB	104	VAL	CB-CA-C	-5.25	103.33	110.42
2	CG	104	VAL	CB-CA-C	-5.25	103.33	110.42
2	CO	134	HIS	N-CA-C	5.25	121.99	110.80
2	CT	104	VAL	CB-CA-C	-5.25	103.33	110.42
3	DK	53	PHE	N-CA-C	5.25	117.31	109.59
3	DZ	193	SER	N-CA-C	5.25	117.37	109.23
3	Dc	53	PHE	N-CA-C	5.25	117.31	109.59
1	A9	88	PHE	N-CA-C	5.25	121.98	110.80
1	AV	52	PRO	N-CA-C	5.25	120.38	111.03
1	Am	52	PRO	N-CA-C	5.25	120.38	111.03
2	CG	134	HIS	N-CA-C	5.25	121.98	110.80
2	CR	134	HIS	N-CA-C	5.25	121.98	110.80
3	DN	148	VAL	N-CA-C	-5.25	102.82	109.80
3	Dk	53	PHE	N-CA-C	5.25	117.31	109.59
1	AA	88	PHE	N-CA-C	5.25	121.98	110.80
1	AA	232	ALA	N-CA-C	-5.25	100.68	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	88	PHE	N-CA-C	5.25	121.98	110.80
1	Ad	88	PHE	N-CA-C	5.25	121.98	110.80
1	Ag	88	PHE	N-CA-C	5.25	121.98	110.80
1	An	52	PRO	N-CA-C	5.25	120.37	111.03
1	BF	52	PRO	N-CA-C	5.25	120.37	111.03
1	BG	88	PHE	N-CA-C	5.25	121.98	110.80
2	C4	104	VAL	CB-CA-C	-5.25	103.33	110.42
2	CO	104	VAL	CB-CA-C	-5.25	103.33	110.42
3	DG	148	VAL	N-CA-C	-5.25	102.82	109.80
1	AI	52	PRO	N-CA-C	5.25	120.37	111.03
1	AO	52	PRO	N-CA-C	5.25	120.37	111.03
1	AY	52	PRO	N-CA-C	5.25	120.37	111.03
2	Cu	134	HIS	N-CA-C	5.25	121.97	110.80
3	D9	53	PHE	N-CA-C	5.25	117.30	109.59
3	DF	53	PHE	N-CA-C	5.25	117.30	109.59
3	Df	53	PHE	N-CA-C	5.25	117.30	109.59
1	A0	52	PRO	N-CA-C	5.25	120.37	111.03
1	Al	52	PRO	N-CA-C	5.25	120.37	111.03
1	An	88	PHE	N-CA-C	5.25	121.97	110.80
1	A2	88	PHE	N-CA-C	5.24	121.97	110.80
1	A4	232	ALA	N-CA-C	-5.24	100.69	109.24
1	AD	52	PRO	N-CA-C	5.24	120.36	111.03
2	C0	104	VAL	CB-CA-C	-5.24	103.34	110.42
2	C2	104	VAL	CB-CA-C	-5.24	103.34	110.42
2	CA	104	VAL	CB-CA-C	-5.24	103.34	110.42
2	CW	104	VAL	CB-CA-C	-5.24	103.34	110.42
2	Cq	104	VAL	CB-CA-C	-5.24	103.34	110.42
3	DD	53	PHE	N-CA-C	5.24	117.30	109.59
3	DN	53	PHE	N-CA-C	5.24	117.30	109.59
3	DP	53	PHE	N-CA-C	5.24	117.30	109.59
3	Di	53	PHE	N-CA-C	5.24	117.30	109.59
1	A6	232	ALA	N-CA-C	-5.24	100.70	109.24
1	AP	232	ALA	N-CA-C	-5.24	100.70	109.24
1	Ah	88	PHE	N-CA-C	5.24	121.97	110.80
3	DX	53	PHE	N-CA-C	5.24	117.30	109.59
1	AH	88	PHE	N-CA-C	5.24	121.96	110.80
1	Ab	52	PRO	N-CA-C	5.24	120.36	111.03
1	Ae	88	PHE	N-CA-C	5.24	121.96	110.80
2	C6	104	VAL	CB-CA-C	-5.24	103.34	110.42
2	Cm	104	VAL	CB-CA-C	-5.24	103.35	110.42
3	D0	53	PHE	N-CA-C	5.24	117.29	109.59
3	DG	53	PHE	N-CA-C	5.24	117.29	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DL	193	SER	N-CA-C	5.24	117.35	109.23
3	Dj	53	PHE	N-CA-C	5.24	117.29	109.59
1	Aj	232	ALA	N-CA-C	-5.24	100.70	109.24
2	CE	104	VAL	CB-CA-C	-5.24	103.35	110.42
3	D3	148	VAL	N-CA-C	-5.24	102.83	109.80
3	DZ	53	PHE	N-CA-C	5.24	117.29	109.59
3	Db	53	PHE	N-CA-C	5.24	117.29	109.59
3	Ds	53	PHE	N-CA-C	5.24	117.29	109.59
1	AM	52	PRO	N-CA-C	5.24	120.35	111.03
2	CI	104	VAL	CB-CA-C	-5.24	103.35	110.42
3	D2	53	PHE	N-CA-C	5.24	117.29	109.59
3	Dg	53	PHE	N-CA-C	5.24	117.29	109.59
2	Ca	104	VAL	CB-CA-C	-5.24	103.35	110.42
3	D5	53	PHE	N-CA-C	5.24	117.29	109.59
3	D6	53	PHE	N-CA-C	5.24	117.29	109.59
3	DT	53	PHE	N-CA-C	5.24	117.28	109.59
3	DT	148	VAL	N-CA-C	-5.24	102.84	109.80
3	EA	53	PHE	N-CA-C	5.24	117.29	109.59
3	EB	53	PHE	N-CA-C	5.24	117.29	109.59
3	DJ	148	VAL	N-CA-C	-5.23	102.84	109.80
2	Cf	104	VAL	CB-CA-C	-5.23	103.36	110.42
3	D1	53	PHE	N-CA-C	5.23	117.28	109.59
3	Dm	148	VAL	N-CA-C	-5.23	102.84	109.80
3	Dp	53	PHE	N-CA-C	5.23	117.28	109.59
3	EE	53	PHE	N-CA-C	5.23	117.28	109.59
3	D4	53	PHE	N-CA-C	5.23	117.28	109.59
3	D8	64	VAL	CB-CA-C	-5.23	102.71	111.29
3	DI	53	PHE	N-CA-C	5.23	117.28	109.59
3	DI	148	VAL	N-CA-C	-5.23	102.84	109.80
3	DL	53	PHE	N-CA-C	5.23	117.28	109.59
3	DR	64	VAL	CB-CA-C	-5.23	102.71	111.29
2	C8	104	VAL	CB-CA-C	-5.23	103.36	110.42
2	Co	126	VAL	CB-CA-C	5.23	118.14	110.98
1	BD	52	PRO	N-CA-C	5.23	120.34	111.03
3	D8	53	PHE	N-CA-C	5.23	117.28	109.59
3	DH	53	PHE	N-CA-C	5.23	117.28	109.59
3	DM	53	PHE	N-CA-C	5.23	117.27	109.59
3	DO	64	VAL	CB-CA-C	-5.23	102.72	111.29
1	AQ	52	PRO	N-CA-C	5.23	120.33	111.03
1	Ac	52	PRO	N-CA-C	5.23	120.33	111.03
2	Cj	126	VAL	CB-CA-C	5.23	118.14	110.98
1	A8	232	ALA	N-CA-C	-5.22	100.72	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AL	52	PRO	N-CA-C	5.22	120.33	111.03
1	AS	52	PRO	N-CA-C	5.22	120.33	111.03
1	Ai	88	PHE	N-CA-C	5.22	121.93	110.80
2	Cd	126	VAL	CB-CA-C	5.22	118.14	110.98
3	D5	148	VAL	N-CA-C	-5.22	102.85	109.80
3	DH	64	VAL	CB-CA-C	-5.22	102.72	111.29
3	Do	53	PHE	N-CA-C	5.22	117.27	109.59
1	A5	52	PRO	N-CA-C	5.22	120.33	111.03
2	C1	126	VAL	CB-CA-C	5.22	118.14	110.98
3	DR	53	PHE	N-CA-C	5.22	117.27	109.59
3	DS	53	PHE	N-CA-C	5.22	117.27	109.59
2	CP	126	VAL	CB-CA-C	5.22	118.13	110.98
3	D6	148	VAL	N-CA-C	-5.22	102.86	109.80
3	DW	148	VAL	N-CA-C	-5.22	102.86	109.80
3	Db	64	VAL	CB-CA-C	-5.22	102.73	111.29
3	Dc	64	VAL	CB-CA-C	-5.22	102.73	111.29
3	Dn	53	PHE	N-CA-C	5.22	117.26	109.59
2	Cn	104	VAL	CB-CA-C	-5.22	103.38	110.42
3	DQ	64	VAL	CB-CA-C	-5.22	102.73	111.29
3	D9	64	VAL	CB-CA-C	-5.22	102.73	111.29
3	DA	53	PHE	N-CA-C	5.22	117.26	109.59
3	ED	148	VAL	N-CA-C	-5.22	102.86	109.80
3	DO	53	PHE	N-CA-C	5.21	117.26	109.59
3	Dh	53	PHE	N-CA-C	5.21	117.26	109.59
3	DT	64	VAL	CB-CA-C	-5.21	102.74	111.29
2	Cn	126	VAL	CB-CA-C	5.21	118.12	110.98
3	DP	64	VAL	CB-CA-C	-5.21	102.74	111.29
3	EC	148	VAL	N-CA-C	-5.21	102.87	109.80
1	Am	232	ALA	N-CA-C	-5.21	100.75	109.24
3	Dh	64	VAL	CB-CA-C	-5.21	102.75	111.29
2	Co	104	VAL	CB-CA-C	-5.21	103.39	110.42
3	DB	53	PHE	N-CA-C	5.21	117.25	109.59
3	DJ	53	PHE	N-CA-C	5.21	117.25	109.59
3	EE	150	LEU	N-CA-C	5.21	121.89	110.80
2	Cb	126	VAL	CB-CA-C	5.21	118.11	110.98
3	DD	150	LEU	N-CA-C	5.21	121.89	110.80
2	CU	126	VAL	CB-CA-C	5.21	118.11	110.98
3	DX	64	VAL	CB-CA-C	-5.21	102.75	111.29
3	Dg	64	VAL	CB-CA-C	-5.21	102.75	111.29
3	D0	64	VAL	CB-CA-C	-5.20	102.76	111.29
3	DK	150	LEU	N-CA-C	5.20	121.88	110.80
3	Dk	148	VAL	N-CA-C	-5.20	102.88	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	ED	53	PHE	N-CA-C	5.20	117.24	109.59
3	D4	64	VAL	CB-CA-C	-5.20	102.76	111.29
2	CI	126	VAL	CB-CA-C	5.20	118.11	110.98
2	CV	126	VAL	CB-CA-C	5.20	118.11	110.98
3	DS	150	LEU	N-CA-C	5.20	121.88	110.80
3	DY	53	PHE	N-CA-C	5.20	117.23	109.59
2	CG	126	VAL	CB-CA-C	5.20	118.10	110.98
3	DC	148	VAL	N-CA-C	-5.20	102.89	109.80
3	DG	150	LEU	N-CA-C	5.20	121.87	110.80
3	DI	150	LEU	N-CA-C	5.20	121.87	110.80
3	DW	64	VAL	CB-CA-C	-5.20	102.77	111.29
3	DZ	64	VAL	CB-CA-C	-5.20	102.76	111.29
3	Dc	150	LEU	N-CA-C	5.20	121.87	110.80
3	De	148	VAL	N-CA-C	-5.20	102.89	109.80
3	Dp	148	VAL	N-CA-C	-5.20	102.89	109.80
2	CR	126	VAL	CB-CA-C	5.20	118.10	110.98
3	DE	150	LEU	N-CA-C	5.20	121.87	110.80
3	Do	64	VAL	CB-CA-C	-5.20	102.77	111.29
2	CJ	126	VAL	CB-CA-C	5.20	118.10	110.98
3	D3	64	VAL	CB-CA-C	-5.20	102.77	111.29
3	DG	89	TYR	N-CA-C	-5.20	105.31	110.97
3	Db	148	VAL	N-CA-C	-5.20	102.89	109.80
3	De	64	VAL	CB-CA-C	-5.20	102.77	111.29
3	D7	148	VAL	N-CA-C	-5.19	102.89	109.80
3	D7	150	LEU	N-CA-C	5.19	121.86	110.80
3	Dd	150	LEU	N-CA-C	5.19	121.86	110.80
2	Ci	126	VAL	CB-CA-C	5.19	118.09	110.98
2	Cq	126	VAL	CB-CA-C	5.19	118.09	110.98
3	D1	148	VAL	N-CA-C	-5.19	102.89	109.80
3	D6	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	D7	53	PHE	N-CA-C	5.19	117.22	109.59
3	DH	89	TYR	N-CA-C	-5.19	105.31	110.97
3	DL	64	VAL	CB-CA-C	-5.19	102.77	111.29
3	DP	148	VAL	N-CA-C	-5.19	102.89	109.80
3	DY	150	LEU	N-CA-C	5.19	121.86	110.80
3	Dr	148	VAL	N-CA-C	-5.19	102.89	109.80
3	Ds	150	LEU	N-CA-C	5.19	121.86	110.80
3	EB	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	EE	148	VAL	N-CA-C	-5.19	102.89	109.80
2	CB	126	VAL	CB-CA-C	5.19	118.09	110.98
2	Ck	126	VAL	CB-CA-C	5.19	118.09	110.98
3	DJ	150	LEU	N-CA-C	5.19	121.85	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DR	148	VAL	N-CA-C	-5.19	102.90	109.80
3	DU	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	DV	53	PHE	N-CA-C	5.19	117.22	109.59
3	Da	148	VAL	N-CA-C	-5.19	102.90	109.80
3	Di	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	Dn	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	DB	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	DD	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	DE	148	VAL	N-CA-C	-5.19	102.90	109.80
3	Dh	148	VAL	N-CA-C	-5.19	102.90	109.80
2	C4	126	VAL	CB-CA-C	5.19	118.09	110.98
3	D4	148	VAL	N-CA-C	-5.19	102.90	109.80
3	D5	150	LEU	N-CA-C	5.19	121.85	110.80
3	DA	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	DN	150	LEU	N-CA-C	5.19	121.85	110.80
3	DS	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	Dj	150	LEU	N-CA-C	5.19	121.85	110.80
3	Dk	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	EC	150	LEU	N-CA-C	5.19	121.85	110.80
3	DR	150	LEU	N-CA-C	5.19	121.85	110.80
3	DT	150	LEU	N-CA-C	5.19	121.85	110.80
3	DV	148	VAL	N-CA-C	-5.19	102.90	109.80
3	Dp	64	VAL	CB-CA-C	-5.19	102.78	111.29
3	EA	64	VAL	CB-CA-C	-5.19	102.79	111.29
2	CC	126	VAL	CB-CA-C	5.18	118.08	110.98
2	Cp	126	VAL	CB-CA-C	5.18	118.08	110.98
3	D2	150	LEU	N-CA-C	5.18	121.84	110.80
3	D8	148	VAL	N-CA-C	-5.18	102.90	109.80
3	D9	148	VAL	N-CA-C	-5.18	102.91	109.80
3	DF	150	LEU	N-CA-C	5.18	121.84	110.80
3	DM	148	VAL	N-CA-C	-5.18	102.90	109.80
3	DN	64	VAL	CB-CA-C	-5.18	102.79	111.29
3	DQ	150	LEU	N-CA-C	5.18	121.84	110.80
3	DU	150	LEU	N-CA-C	5.18	121.84	110.80
3	Dg	150	LEU	N-CA-C	5.18	121.84	110.80
3	DI	64	VAL	CB-CA-C	-5.18	102.79	111.29
3	Dm	150	LEU	N-CA-C	5.18	121.84	110.80
2	CY	126	VAL	CB-CA-C	5.18	118.08	110.98
2	Cr	126	VAL	CB-CA-C	5.18	118.08	110.98
3	DC	89	TYR	N-CA-C	-5.18	105.32	110.97
3	DD	148	VAL	N-CA-C	-5.18	102.91	109.80
3	DI	64	VAL	CB-CA-C	-5.18	102.79	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DJ	89	TYR	N-CA-C	-5.18	105.32	110.97
3	DL	150	LEU	N-CA-C	5.18	121.84	110.80
3	DM	89	TYR	N-CA-C	-5.18	105.32	110.97
3	DZ	150	LEU	N-CA-C	5.18	121.84	110.80
3	Di	148	VAL	N-CA-C	-5.18	102.91	109.80
3	Dn	150	LEU	N-CA-C	5.18	121.84	110.80
2	C3	126	VAL	CB-CA-C	5.18	118.08	110.98
2	C7	126	VAL	CB-CA-C	5.18	118.08	110.98
2	CX	126	VAL	CB-CA-C	5.18	118.08	110.98
2	Ct	126	VAL	CB-CA-C	5.18	118.08	110.98
3	D6	150	LEU	N-CA-C	5.18	121.84	110.80
3	DF	64	VAL	CB-CA-C	-5.18	102.79	111.29
3	Ds	148	VAL	N-CA-C	-5.18	102.91	109.80
3	DB	150	LEU	N-CA-C	5.18	121.83	110.80
3	DW	150	LEU	N-CA-C	5.18	121.83	110.80
3	DY	148	VAL	N-CA-C	-5.18	102.91	109.80
3	Df	64	VAL	CB-CA-C	-5.18	102.80	111.29
3	Dk	150	LEU	N-CA-C	5.18	121.83	110.80
3	Do	148	VAL	N-CA-C	-5.18	102.91	109.80
3	Dp	150	LEU	N-CA-C	5.18	121.83	110.80
3	Dq	148	VAL	N-CA-C	-5.18	102.91	109.80
3	EB	148	VAL	N-CA-C	-5.18	102.91	109.80
3	EB	150	LEU	N-CA-C	5.18	121.83	110.80
2	CD	126	VAL	CB-CA-C	5.18	118.07	110.98
2	CQ	126	VAL	CB-CA-C	5.18	118.07	110.98
2	Cg	126	VAL	CB-CA-C	5.18	118.07	110.98
3	DA	148	VAL	N-CA-C	-5.18	102.91	109.80
3	DA	150	LEU	N-CA-C	5.18	121.83	110.80
3	DG	64	VAL	CB-CA-C	-5.18	102.80	111.29
3	DP	89	TYR	N-CA-C	-5.18	105.33	110.97
3	Di	150	LEU	N-CA-C	5.18	121.83	110.80
3	Dm	64	VAL	CB-CA-C	-5.18	102.80	111.29
2	C0	126	VAL	CB-CA-C	5.18	118.07	110.98
2	CL	126	VAL	CB-CA-C	5.18	118.07	110.98
2	CT	126	VAL	CB-CA-C	5.18	118.07	110.98
2	Ch	126	VAL	CB-CA-C	5.18	118.07	110.98
2	Cl	126	VAL	CB-CA-C	5.18	118.07	110.98
3	D0	150	LEU	N-CA-C	5.18	121.83	110.80
3	D7	64	VAL	CB-CA-C	-5.18	102.80	111.29
3	DX	150	LEU	N-CA-C	5.18	121.83	110.80
3	Dc	148	VAL	N-CA-C	-5.18	102.92	109.80
3	Dh	150	LEU	N-CA-C	5.18	121.83	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Dn	148	VAL	N-CA-C	-5.18	102.92	109.80
3	EA	150	LEU	N-CA-C	5.18	121.83	110.80
3	ED	64	VAL	CB-CA-C	-5.18	102.80	111.29
3	D3	150	LEU	N-CA-C	5.17	121.82	110.80
3	DH	148	VAL	N-CA-C	-5.17	102.92	109.80
3	DH	150	LEU	N-CA-C	5.17	121.82	110.80
3	DK	148	VAL	N-CA-C	-5.17	102.92	109.80
3	DO	150	LEU	N-CA-C	5.17	121.82	110.80
3	DX	148	VAL	N-CA-C	-5.17	102.92	109.80
3	DI	150	LEU	N-CA-C	5.17	121.82	110.80
2	CM	126	VAL	CB-CA-C	5.17	118.07	110.98
2	Cw	126	VAL	CB-CA-C	5.17	118.07	110.98
3	D5	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	DE	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	Da	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	Da	150	LEU	N-CA-C	5.17	121.82	110.80
3	Dq	150	LEU	N-CA-C	5.17	121.82	110.80
2	CA	126	VAL	CB-CA-C	5.17	118.06	110.98
2	CE	126	VAL	CB-CA-C	5.17	118.07	110.98
2	Ce	126	VAL	CB-CA-C	5.17	118.06	110.98
2	Cu	126	VAL	CB-CA-C	5.17	118.07	110.98
3	D1	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	DM	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	DM	150	LEU	N-CA-C	5.17	121.82	110.80
3	DY	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	Df	150	LEU	N-CA-C	5.17	121.82	110.80
3	Dj	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	Dn	89	TYR	N-CA-C	-5.17	105.33	110.97
3	ED	150	LEU	N-CA-C	5.17	121.82	110.80
2	C5	126	VAL	CB-CA-C	5.17	118.06	110.98
3	D0	148	VAL	N-CA-C	-5.17	102.92	109.80
3	DK	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	DC	150	LEU	N-CA-C	5.17	121.81	110.80
3	DJ	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	DQ	148	VAL	N-CA-C	-5.17	102.92	109.80
3	Dd	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	De	150	LEU	N-CA-C	5.17	121.81	110.80
3	Do	150	LEU	N-CA-C	5.17	121.81	110.80
3	EC	64	VAL	CB-CA-C	-5.17	102.81	111.29
3	ED	89	TYR	N-CA-C	-5.17	105.34	110.97
2	CK	126	VAL	CB-CA-C	5.17	118.06	110.98
2	Cv	126	VAL	CB-CA-C	5.17	118.06	110.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cx	126	VAL	CB-CA-C	5.17	118.06	110.98
3	DF	148	VAL	N-CA-C	-5.17	102.93	109.80
3	DZ	148	VAL	N-CA-C	-5.17	102.93	109.80
3	Db	150	LEU	N-CA-C	5.17	121.81	110.80
3	Dg	89	TYR	N-CA-C	-5.17	105.34	110.97
3	DB	148	VAL	N-CA-C	-5.17	102.93	109.80
3	Ds	64	VAL	CB-CA-C	-5.17	102.82	111.29
2	CN	126	VAL	CB-CA-C	5.16	118.05	110.98
2	CO	126	VAL	CB-CA-C	5.16	118.05	110.98
3	D2	64	VAL	CB-CA-C	-5.16	102.82	111.29
3	D9	150	LEU	N-CA-C	5.16	121.80	110.80
3	DL	148	VAL	N-CA-C	-5.16	102.93	109.80
3	Dd	148	VAL	N-CA-C	-5.16	102.93	109.80
3	EE	64	VAL	CB-CA-C	-5.16	102.83	111.29
2	CH	126	VAL	CB-CA-C	5.16	118.05	110.98
2	CW	126	VAL	CB-CA-C	5.16	118.05	110.98
2	Cm	126	VAL	CB-CA-C	5.16	118.05	110.98
3	D2	148	VAL	N-CA-C	-5.16	102.94	109.80
3	DK	89	TYR	N-CA-C	-5.16	105.35	110.97
3	DP	150	LEU	N-CA-C	5.16	121.79	110.80
3	DS	148	VAL	N-CA-C	-5.16	102.94	109.80
3	Dg	148	VAL	N-CA-C	-5.16	102.94	109.80
2	C6	126	VAL	CB-CA-C	5.16	118.05	110.98
3	DU	148	VAL	N-CA-C	-5.16	102.94	109.80
3	DV	64	VAL	CB-CA-C	-5.16	102.83	111.29
3	Db	89	TYR	N-CA-C	-5.16	105.35	110.97
3	DV	150	LEU	N-CA-C	5.16	121.78	110.80
3	D4	150	LEU	N-CA-C	5.16	121.78	110.80
3	DC	64	VAL	CB-CA-C	-5.16	102.83	111.29
3	Dl	148	VAL	N-CA-C	-5.16	102.94	109.80
2	Ca	126	VAL	CB-CA-C	5.15	118.04	110.98
3	D1	89	TYR	N-CA-C	-5.15	105.35	110.97
3	D8	150	LEU	N-CA-C	5.15	121.78	110.80
2	CF	126	VAL	CB-CA-C	5.15	118.04	110.98
2	CX	88	LEU	N-CA-C	-5.15	105.29	112.45
3	Df	89	TYR	N-CA-C	-5.15	105.35	110.97
3	Dq	64	VAL	CB-CA-C	-5.15	102.84	111.29
3	Dr	150	LEU	N-CA-C	5.15	121.77	110.80
3	D1	150	LEU	N-CA-C	5.15	121.77	110.80
3	Dn	36	VAL	CA-C-N	5.15	127.00	120.51
3	Dn	36	VAL	C-N-CA	5.15	127.00	120.51
3	Dr	64	VAL	CB-CA-C	-5.15	102.84	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	EA	148	VAL	N-CA-C	-5.15	102.95	109.80
3	DE	89	TYR	N-CA-C	-5.15	105.36	110.97
3	Dh	89	TYR	N-CA-C	-5.15	105.36	110.97
3	D5	89	TYR	N-CA-C	-5.15	105.36	110.97
3	DX	89	TYR	N-CA-C	-5.15	105.36	110.97
3	EE	89	TYR	N-CA-C	-5.15	105.36	110.97
3	DO	148	VAL	N-CA-C	-5.15	102.96	109.80
3	Ds	89	TYR	N-CA-C	-5.15	105.36	110.97
3	Dj	148	VAL	N-CA-C	-5.14	102.96	109.80
3	De	89	TYR	N-CA-C	-5.14	105.36	110.97
3	Dp	89	TYR	N-CA-C	-5.14	105.36	110.97
3	EB	89	TYR	N-CA-C	-5.14	105.36	110.97
2	Cf	126	VAL	CB-CA-C	5.14	118.02	110.98
3	D8	89	TYR	N-CA-C	-5.14	105.37	110.97
3	Df	148	VAL	N-CA-C	-5.14	102.96	109.80
3	Dm	89	TYR	N-CA-C	-5.14	105.37	110.97
2	Cs	126	VAL	CB-CA-C	5.14	118.02	110.98
2	C2	126	VAL	CB-CA-C	5.14	118.02	110.98
2	C4	88	LEU	N-CA-C	-5.14	105.31	112.45
2	Cc	126	VAL	CB-CA-C	5.14	118.02	110.98
3	D2	89	TYR	N-CA-C	-5.14	105.37	110.97
3	DS	89	TYR	N-CA-C	-5.14	105.37	110.97
3	D9	89	TYR	N-CA-C	-5.13	105.37	110.97
3	DV	89	TYR	N-CA-C	-5.13	105.37	110.97
3	Da	36	VAL	CA-C-N	5.13	126.98	120.51
3	Da	36	VAL	C-N-CA	5.13	126.98	120.51
3	EC	89	TYR	N-CA-C	-5.13	105.38	110.97
2	C8	126	VAL	CB-CA-C	5.13	118.01	110.98
2	C9	126	VAL	CB-CA-C	5.13	118.01	110.98
2	CD	88	LEU	N-CA-C	-5.13	105.32	112.45
3	DB	89	TYR	N-CA-C	-5.13	105.38	110.97
3	DE	36	VAL	CA-C-N	5.13	126.97	120.51
3	DE	36	VAL	C-N-CA	5.13	126.97	120.51
3	DT	89	TYR	N-CA-C	-5.13	105.38	110.97
3	DU	89	TYR	N-CA-C	-5.13	105.38	110.97
2	CK	88	LEU	N-CA-C	-5.13	105.32	112.45
3	DI	89	TYR	N-CA-C	-5.13	105.38	110.97
3	Dc	89	TYR	N-CA-C	-5.13	105.38	110.97
2	CS	126	VAL	CB-CA-C	5.12	118.00	110.98
2	Ca	88	LEU	N-CA-C	-5.12	105.33	112.45
3	D0	89	TYR	N-CA-C	-5.12	105.39	110.97
3	DO	89	TYR	N-CA-C	-5.12	105.39	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Da	89	TYR	N-CA-C	-5.12	105.39	110.97
3	Dr	89	TYR	N-CA-C	-5.12	105.39	110.97
3	DQ	89	TYR	N-CA-C	-5.12	105.39	110.97
3	DA	89	TYR	N-CA-C	-5.12	105.39	110.97
3	DD	89	TYR	N-CA-C	-5.12	105.39	110.97
3	DJ	36	VAL	CA-C-N	5.12	126.96	120.51
3	DJ	36	VAL	C-N-CA	5.12	126.96	120.51
3	DN	89	TYR	N-CA-C	-5.12	105.39	110.97
3	Dd	89	TYR	N-CA-C	-5.12	105.39	110.97
2	CT	88	LEU	N-CA-C	-5.11	105.34	112.45
2	Co	88	LEU	N-CA-C	-5.11	105.34	112.45
3	DL	89	TYR	N-CA-C	-5.11	105.40	110.97
3	DR	89	TYR	N-CA-C	-5.11	105.39	110.97
3	EE	36	VAL	CA-C-N	5.11	126.95	120.51
3	EE	36	VAL	C-N-CA	5.11	126.95	120.51
2	CY	88	LEU	N-CA-C	-5.11	105.34	112.45
2	C7	88	LEU	N-CA-C	-5.11	105.35	112.45
2	Cg	88	LEU	N-CA-C	-5.11	105.34	112.45
3	D7	89	TYR	N-CA-C	-5.11	105.40	110.97
3	DS	191	LEU	N-CA-C	5.11	121.69	110.80
3	Di	89	TYR	N-CA-C	-5.11	105.40	110.97
3	Do	89	TYR	N-CA-C	-5.11	105.40	110.97
3	DF	89	TYR	N-CA-C	-5.11	105.40	110.97
2	C1	88	LEU	N-CA-C	-5.11	105.35	112.45
2	Cn	88	LEU	N-CA-C	-5.11	105.36	112.45
3	D6	89	TYR	N-CA-C	-5.11	105.40	110.97
3	DF	191	LEU	N-CA-C	5.11	121.67	110.80
2	CO	88	LEU	N-CA-C	-5.10	105.36	112.45
2	CZ	126	VAL	CB-CA-C	5.10	117.97	110.98
2	Ci	88	LEU	N-CA-C	-5.10	105.36	112.45
2	Cw	88	LEU	N-CA-C	-5.10	105.36	112.45
3	D2	191	LEU	N-CA-C	5.10	121.67	110.80
3	DY	89	TYR	N-CA-C	-5.10	105.41	110.97
3	Dj	89	TYR	N-CA-C	-5.10	105.41	110.97
2	Ce	88	LEU	N-CA-C	-5.10	105.36	112.45
2	CC	88	LEU	N-CA-C	-5.10	105.36	112.45
2	CP	88	LEU	N-CA-C	-5.10	105.36	112.45
3	DB	191	LEU	N-CA-C	5.10	121.66	110.80
3	DZ	89	TYR	N-CA-C	-5.10	105.41	110.97
2	CB	88	LEU	N-CA-C	-5.10	105.36	112.45
2	Cs	88	LEU	N-CA-C	-5.10	105.36	112.45
3	D5	36	VAL	CA-C-N	5.10	126.93	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D5	36	VAL	C-N-CA	5.10	126.93	120.51
3	D6	191	LEU	N-CA-C	5.10	121.66	110.80
3	DO	36	VAL	CA-C-N	5.10	126.93	120.51
3	DO	36	VAL	C-N-CA	5.10	126.93	120.51
3	Dh	36	VAL	CA-C-N	5.10	126.93	120.51
3	Dh	36	VAL	C-N-CA	5.10	126.93	120.51
3	Dk	191	LEU	N-CA-C	5.10	121.66	110.80
3	DU	36	VAL	CA-C-N	5.10	126.93	120.51
3	DU	36	VAL	C-N-CA	5.10	126.93	120.51
3	D3	36	VAL	CA-C-N	5.09	126.93	120.51
3	D3	36	VAL	C-N-CA	5.09	126.93	120.51
3	DW	89	TYR	N-CA-C	-5.09	105.42	110.97
3	DZ	191	LEU	N-CA-C	5.09	121.65	110.80
3	Db	191	LEU	N-CA-C	5.09	121.65	110.80
3	EA	89	TYR	N-CA-C	-5.09	105.42	110.97
2	CF	88	LEU	N-CA-C	-5.09	105.37	112.45
2	C2	88	LEU	N-CA-C	-5.09	105.37	112.45
3	DW	191	LEU	N-CA-C	5.09	121.65	110.80
3	DX	191	LEU	N-CA-C	5.09	121.65	110.80
3	Dd	191	LEU	N-CA-C	5.09	121.64	110.80
2	CW	88	LEU	N-CA-C	-5.09	105.38	112.45
3	D8	191	LEU	N-CA-C	5.09	121.64	110.80
3	DO	191	LEU	N-CA-C	5.09	121.64	110.80
3	Dg	36	VAL	CA-C-N	5.09	126.92	120.51
3	Dg	36	VAL	C-N-CA	5.09	126.92	120.51
3	Dq	191	LEU	N-CA-C	5.09	121.64	110.80
3	DI	191	LEU	N-CA-C	5.09	121.64	110.80
3	D1	36	VAL	CA-C-N	5.09	126.92	120.51
3	D1	36	VAL	C-N-CA	5.09	126.92	120.51
3	Dm	191	LEU	N-CA-C	5.09	121.64	110.80
3	Dq	89	TYR	N-CA-C	-5.09	105.43	110.97
3	Dc	191	LEU	N-CA-C	5.08	121.63	110.80
2	C5	88	LEU	N-CA-C	-5.08	105.39	112.45
3	DK	191	LEU	N-CA-C	5.08	121.63	110.80
3	DV	191	LEU	N-CA-C	5.08	121.63	110.80
3	Do	36	VAL	CA-C-N	5.08	126.92	120.51
3	Do	36	VAL	C-N-CA	5.08	126.92	120.51
3	Dp	191	LEU	N-CA-C	5.08	121.63	110.80
3	EB	191	LEU	N-CA-C	5.08	121.63	110.80
3	EC	191	LEU	N-CA-C	5.08	121.63	110.80
1	AX	26	VAL	N-CA-C	5.08	119.91	109.34
1	AY	26	VAL	N-CA-C	5.08	119.91	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CG	88	LEU	N-CA-C	-5.08	105.39	112.45
3	D3	89	TYR	N-CA-C	-5.08	105.43	110.97
3	Dc	36	VAL	CA-C-N	5.08	126.91	120.51
3	Dc	36	VAL	C-N-CA	5.08	126.91	120.51
3	De	36	VAL	CA-C-N	5.08	126.91	120.51
3	De	36	VAL	C-N-CA	5.08	126.91	120.51
3	Df	191	LEU	N-CA-C	5.08	121.62	110.80
3	Dm	36	VAL	CA-C-N	5.08	126.91	120.51
3	Dm	36	VAL	C-N-CA	5.08	126.91	120.51
3	Dn	191	LEU	N-CA-C	5.08	121.62	110.80
3	Do	191	LEU	N-CA-C	5.08	121.62	110.80
3	ED	191	LEU	N-CA-C	5.08	121.62	110.80
3	DE	191	LEU	N-CA-C	5.08	121.62	110.80
3	DJ	191	LEU	N-CA-C	5.08	121.62	110.80
3	DL	191	LEU	N-CA-C	5.08	121.62	110.80
3	Dh	191	LEU	N-CA-C	5.08	121.62	110.80
3	Ds	36	VAL	CA-C-N	5.08	126.91	120.51
3	Ds	36	VAL	C-N-CA	5.08	126.91	120.51
1	BE	26	VAL	N-CA-C	5.08	119.91	109.34
2	CE	88	LEU	N-CA-C	-5.08	105.39	112.45
2	CL	88	LEU	N-CA-C	-5.08	105.39	112.45
2	Cf	88	LEU	N-CA-C	-5.08	105.39	112.45
3	D4	191	LEU	N-CA-C	5.08	121.62	110.80
3	DT	36	VAL	CA-C-N	5.08	126.91	120.51
3	DT	36	VAL	C-N-CA	5.08	126.91	120.51
2	Cc	88	LEU	N-CA-C	-5.08	105.39	112.45
2	Ch	88	LEU	N-CA-C	-5.08	105.39	112.45
2	Cu	88	LEU	N-CA-C	-5.08	105.39	112.45
3	D3	191	LEU	N-CA-C	5.08	121.61	110.80
3	D7	191	LEU	N-CA-C	5.08	121.61	110.80
1	AE	26	VAL	N-CA-C	5.08	119.90	109.34
1	AJ	26	VAL	N-CA-C	5.08	119.90	109.34
1	AO	26	VAL	N-CA-C	5.08	119.90	109.34
1	BG	241	THR	N-CA-C	5.08	117.91	109.94
2	C0	88	LEU	N-CA-C	-5.08	105.39	112.45
2	CS	88	LEU	N-CA-C	-5.08	105.39	112.45
2	Cx	88	LEU	N-CA-C	-5.08	105.39	112.45
3	D1	191	LEU	N-CA-C	5.08	121.61	110.80
3	D5	191	LEU	N-CA-C	5.08	121.61	110.80
3	DA	191	LEU	N-CA-C	5.08	121.61	110.80
3	DD	191	LEU	N-CA-C	5.08	121.61	110.80
3	DQ	36	VAL	CA-C-N	5.08	126.91	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DQ	36	VAL	C-N-CA	5.08	126.91	120.51
3	DU	191	LEU	N-CA-C	5.08	121.61	110.80
1	AI	26	VAL	N-CA-C	5.07	119.89	109.34
1	Ao	87	GLN	N-CA-C	5.07	118.92	112.12
1	BI	87	GLN	N-CA-C	5.07	118.92	112.12
2	CQ	88	LEU	N-CA-C	-5.07	105.40	112.45
2	CV	88	LEU	N-CA-C	-5.07	105.40	112.45
2	Cp	88	LEU	N-CA-C	-5.07	105.40	112.45
3	D6	36	VAL	CA-C-N	5.07	126.90	120.51
3	D6	36	VAL	C-N-CA	5.07	126.90	120.51
3	DY	191	LEU	N-CA-C	5.07	121.60	110.80
3	De	191	LEU	N-CA-C	5.07	121.61	110.80
3	Ds	191	LEU	N-CA-C	5.07	121.61	110.80
3	EE	191	LEU	N-CA-C	5.07	121.61	110.80
1	A2	26	VAL	N-CA-C	5.07	119.89	109.34
1	Ah	26	VAL	N-CA-C	5.07	119.89	109.34
1	An	26	VAL	N-CA-C	5.07	119.89	109.34
2	C9	88	LEU	N-CA-C	-5.07	105.40	112.45
2	Cd	88	LEU	N-CA-C	-5.07	105.40	112.45
2	Ck	88	LEU	N-CA-C	-5.07	105.40	112.45
3	D6	48	LYS	N-CA-C	-5.07	104.74	112.04
1	A5	87	GLN	N-CA-C	5.07	118.91	112.12
1	BH	26	VAL	N-CA-C	5.07	119.89	109.34
2	C3	88	LEU	N-CA-C	-5.07	105.40	112.45
2	CM	88	LEU	N-CA-C	-5.07	105.40	112.45
2	Cj	88	LEU	N-CA-C	-5.07	105.40	112.45
2	Cr	88	LEU	N-CA-C	-5.07	105.40	112.45
3	D9	191	LEU	N-CA-C	5.07	121.60	110.80
3	EA	191	LEU	N-CA-C	5.07	121.60	110.80
2	Cl	88	LEU	N-CA-C	-5.07	105.40	112.45
3	DG	191	LEU	N-CA-C	5.07	121.60	110.80
3	DK	48	LYS	N-CA-C	-5.07	104.74	112.04
3	Dg	191	LEU	N-CA-C	5.07	121.60	110.80
1	Ak	26	VAL	N-CA-C	5.07	119.88	109.34
1	BD	87	GLN	N-CA-C	5.07	118.91	112.12
2	CA	88	LEU	N-CA-C	-5.07	105.41	112.45
2	CI	88	LEU	N-CA-C	-5.07	105.41	112.45
3	DM	36	VAL	CA-C-N	5.07	126.89	120.51
3	DM	36	VAL	C-N-CA	5.07	126.89	120.51
3	DN	191	LEU	N-CA-C	5.07	121.59	110.80
3	DP	191	LEU	N-CA-C	5.07	121.59	110.80
3	DQ	191	LEU	N-CA-C	5.07	121.60	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AC	26	VAL	N-CA-C	5.07	119.88	109.34
1	Ag	241	THR	N-CA-C	5.07	117.89	109.94
3	Da	191	LEU	N-CA-C	5.07	121.59	110.80
1	AD	87	GLN	N-CA-C	5.06	118.91	112.12
2	C6	88	LEU	N-CA-C	-5.06	105.41	112.45
2	CH	88	LEU	N-CA-C	-5.06	105.41	112.45
3	DC	191	LEU	N-CA-C	5.06	121.59	110.80
1	AR	26	VAL	N-CA-C	5.06	119.87	109.34
2	CU	88	LEU	N-CA-C	-5.06	105.41	112.45
3	DI	36	VAL	CA-C-N	5.06	126.89	120.51
3	DI	36	VAL	C-N-CA	5.06	126.89	120.51
3	DL	48	LYS	N-CA-C	-5.06	104.75	112.04
3	DR	48	LYS	N-CA-C	-5.06	104.75	112.04
3	DV	36	VAL	CA-C-N	5.06	126.89	120.51
3	DV	36	VAL	C-N-CA	5.06	126.89	120.51
3	DX	36	VAL	CA-C-N	5.06	126.89	120.51
3	DX	36	VAL	C-N-CA	5.06	126.89	120.51
3	DZ	36	VAL	CA-C-N	5.06	126.89	120.51
3	DZ	36	VAL	C-N-CA	5.06	126.89	120.51
3	DI	89	TYR	N-CA-C	-5.06	105.45	110.97
3	ED	36	VAL	CA-C-N	5.06	126.89	120.51
3	ED	36	VAL	C-N-CA	5.06	126.89	120.51
1	A1	26	VAL	N-CA-C	5.06	119.87	109.34
1	AU	26	VAL	N-CA-C	5.06	119.87	109.34
3	Di	191	LEU	N-CA-C	5.06	121.58	110.80
3	Dr	191	LEU	N-CA-C	5.06	121.58	110.80
1	A0	26	VAL	N-CA-C	5.06	119.86	109.34
1	AO	241	THR	N-CA-C	5.06	117.89	109.94
1	Ae	26	VAL	N-CA-C	5.06	119.86	109.34
1	Aj	26	VAL	N-CA-C	5.06	119.86	109.34
2	Cb	88	LEU	N-CA-C	-5.06	105.42	112.45
3	D4	36	VAL	CA-C-N	5.06	126.88	120.51
3	D4	36	VAL	C-N-CA	5.06	126.88	120.51
3	DC	36	VAL	CA-C-N	5.06	126.89	120.51
3	DC	36	VAL	C-N-CA	5.06	126.89	120.51
3	DM	191	LEU	N-CA-C	5.06	121.58	110.80
3	DR	191	LEU	N-CA-C	5.06	121.58	110.80
3	Di	36	VAL	CA-C-N	5.06	126.88	120.51
3	Di	36	VAL	C-N-CA	5.06	126.88	120.51
3	Dk	89	TYR	N-CA-C	-5.06	105.45	110.97
3	EC	36	VAL	CA-C-N	5.06	126.89	120.51
3	EC	36	VAL	C-N-CA	5.06	126.89	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	26	VAL	N-CA-C	5.06	119.86	109.34
1	AM	241	THR	N-CA-C	5.06	117.88	109.94
1	AV	26	VAL	N-CA-C	5.06	119.86	109.34
1	AZ	26	VAL	N-CA-C	5.06	119.86	109.34
2	C8	88	LEU	N-CA-C	-5.06	105.42	112.45
2	CZ	88	LEU	N-CA-C	-5.06	105.42	112.45
3	D0	191	LEU	N-CA-C	5.06	121.57	110.80
3	DF	36	VAL	CA-C-N	5.06	126.88	120.51
3	DF	36	VAL	C-N-CA	5.06	126.88	120.51
3	DG	36	VAL	CA-C-N	5.06	126.88	120.51
3	DG	36	VAL	C-N-CA	5.06	126.88	120.51
2	Ct	88	LEU	N-CA-C	-5.06	105.42	112.45
3	Db	36	VAL	CA-C-N	5.06	126.88	120.51
3	Db	36	VAL	C-N-CA	5.06	126.88	120.51
3	Dk	36	VAL	CA-C-N	5.06	126.88	120.51
3	Dk	36	VAL	C-N-CA	5.06	126.88	120.51
1	A3	26	VAL	N-CA-C	5.05	119.85	109.34
1	AB	26	VAL	N-CA-C	5.05	119.85	109.34
1	Ag	26	VAL	N-CA-C	5.05	119.85	109.34
2	CJ	88	LEU	N-CA-C	-5.05	105.42	112.45
2	Cv	88	LEU	N-CA-C	-5.05	105.42	112.45
3	D4	89	TYR	N-CA-C	-5.05	105.46	110.97
3	D9	36	VAL	CA-C-N	5.05	126.88	120.51
3	D9	36	VAL	C-N-CA	5.05	126.88	120.51
3	DH	191	LEU	N-CA-C	5.05	121.57	110.80
3	DL	36	VAL	CA-C-N	5.05	126.88	120.51
3	DL	36	VAL	C-N-CA	5.05	126.88	120.51
3	Db	48	LYS	N-CA-C	-5.05	104.76	112.04
3	Dj	191	LEU	N-CA-C	5.05	121.56	110.80
2	CN	88	LEU	N-CA-C	-5.05	105.43	112.45
3	D8	36	VAL	CA-C-N	5.05	126.88	120.51
3	D8	36	VAL	C-N-CA	5.05	126.88	120.51
3	DA	36	VAL	CA-C-N	5.05	126.88	120.51
3	DA	36	VAL	C-N-CA	5.05	126.88	120.51
3	Df	48	LYS	N-CA-C	-5.05	104.76	112.04
3	DI	191	LEU	N-CA-C	5.05	121.56	110.80
1	A6	26	VAL	N-CA-C	5.05	119.85	109.34
1	AK	26	VAL	N-CA-C	5.05	119.85	109.34
1	AM	26	VAL	N-CA-C	5.05	119.85	109.34
1	AM	87	GLN	N-CA-C	5.05	118.89	112.12
1	AP	26	VAL	N-CA-C	5.05	119.84	109.34
1	Ab	241	THR	N-CA-C	5.05	117.87	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ao	241	THR	N-CA-C	5.05	117.87	109.94
2	CR	88	LEU	N-CA-C	-5.05	105.43	112.45
3	Df	36	VAL	CA-C-N	5.05	126.87	120.51
3	Df	36	VAL	C-N-CA	5.05	126.87	120.51
3	Dj	36	VAL	CA-C-N	5.05	126.87	120.51
3	Dj	36	VAL	C-N-CA	5.05	126.87	120.51
3	Dp	36	VAL	CA-C-N	5.05	126.88	120.51
3	Dp	36	VAL	C-N-CA	5.05	126.88	120.51
1	A4	107	PHE	CA-C-N	5.05	126.87	120.51
1	A4	107	PHE	C-N-CA	5.05	126.87	120.51
1	A7	26	VAL	N-CA-C	5.05	119.84	109.34
1	AW	26	VAL	N-CA-C	5.05	119.84	109.34
3	Dn	48	LYS	N-CA-C	-5.05	104.77	112.04
1	BE	241	THR	N-CA-C	5.05	117.86	109.94
3	DA	48	LYS	N-CA-C	-5.05	104.77	112.04
3	DT	191	LEU	N-CA-C	5.05	121.55	110.80
1	A8	26	VAL	N-CA-C	5.05	119.84	109.34
1	AF	26	VAL	N-CA-C	5.05	119.84	109.34
1	AF	107	PHE	CA-C-N	5.05	126.87	120.51
1	AF	107	PHE	C-N-CA	5.05	126.87	120.51
1	AG	26	VAL	N-CA-C	5.05	119.84	109.34
1	Aa	107	PHE	CA-C-N	5.05	126.87	120.51
1	Aa	107	PHE	C-N-CA	5.05	126.87	120.51
1	Ai	26	VAL	N-CA-C	5.05	119.84	109.34
1	Al	107	PHE	CA-C-N	5.05	126.87	120.51
1	Al	107	PHE	C-N-CA	5.05	126.87	120.51
2	Cm	88	LEU	N-CA-C	-5.05	105.43	112.45
3	D2	36	VAL	CA-C-N	5.05	126.87	120.51
3	D2	36	VAL	C-N-CA	5.05	126.87	120.51
3	DB	36	VAL	CA-C-N	5.05	126.87	120.51
3	DB	36	VAL	C-N-CA	5.05	126.87	120.51
3	EB	36	VAL	CA-C-N	5.05	126.87	120.51
3	EB	36	VAL	C-N-CA	5.05	126.87	120.51
3	EE	48	LYS	N-CA-C	-5.05	104.77	112.04
1	A5	241	THR	N-CA-C	5.04	117.86	109.94
1	AF	241	THR	N-CA-C	5.04	117.86	109.94
1	AL	26	VAL	N-CA-C	5.04	119.83	109.34
1	AN	26	VAL	N-CA-C	5.04	119.83	109.34
1	AX	241	THR	N-CA-C	5.04	117.86	109.94
1	Ae	87	GLN	N-CA-C	5.04	118.88	112.12
1	Al	241	THR	N-CA-C	5.04	117.86	109.94
3	DD	36	VAL	CA-C-N	5.04	126.87	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DD	36	VAL	C-N-CA	5.04	126.87	120.51
1	A4	87	GLN	N-CA-C	5.04	118.88	112.12
1	AD	26	VAL	N-CA-C	5.04	119.83	109.34
1	AY	241	THR	N-CA-C	5.04	117.86	109.94
1	AZ	87	GLN	N-CA-C	5.04	118.88	112.12
1	Aa	26	VAL	N-CA-C	5.04	119.83	109.34
1	BA	87	GLN	N-CA-C	5.04	118.88	112.12
1	BG	87	GLN	N-CA-C	5.04	118.88	112.12
2	Cv	94	PHE	N-CA-C	-5.04	105.48	111.69
3	Da	48	LYS	N-CA-C	-5.04	104.78	112.04
3	Dj	48	LYS	N-CA-C	-5.04	104.78	112.04
1	AG	107	PHE	CA-C-N	5.04	126.86	120.51
1	AG	107	PHE	C-N-CA	5.04	126.86	120.51
1	AX	107	PHE	CA-C-N	5.04	126.86	120.51
1	AX	107	PHE	C-N-CA	5.04	126.86	120.51
1	Af	241	THR	N-CA-C	5.04	117.86	109.94
1	Al	26	VAL	N-CA-C	5.04	119.83	109.34
1	BB	241	THR	N-CA-C	5.04	117.86	109.94
1	BF	26	VAL	N-CA-C	5.04	119.83	109.34
3	DM	48	LYS	N-CA-C	-5.04	104.78	112.04
3	DT	48	LYS	N-CA-C	-5.04	104.78	112.04
3	Dp	48	LYS	N-CA-C	-5.04	104.78	112.04
3	Dq	36	VAL	CA-C-N	5.04	126.86	120.51
3	Dq	36	VAL	C-N-CA	5.04	126.86	120.51
1	AV	107	PHE	CA-C-N	5.04	126.86	120.51
1	AV	107	PHE	C-N-CA	5.04	126.86	120.51
1	Ac	87	GLN	N-CA-C	5.04	118.87	112.12
3	D0	36	VAL	CA-C-N	5.04	126.86	120.51
3	D0	36	VAL	C-N-CA	5.04	126.86	120.51
3	DD	48	LYS	N-CA-C	-5.04	104.78	112.04
3	DS	36	VAL	CA-C-N	5.04	126.86	120.51
3	DS	36	VAL	C-N-CA	5.04	126.86	120.51
3	DY	48	LYS	N-CA-C	-5.04	104.78	112.04
3	Dl	36	VAL	CA-C-N	5.04	126.86	120.51
3	Dl	36	VAL	C-N-CA	5.04	126.86	120.51
1	A8	241	THR	N-CA-C	5.04	117.85	109.94
1	AE	241	THR	N-CA-C	5.04	117.85	109.94
1	AK	241	THR	N-CA-C	5.04	117.85	109.94
1	AV	87	GLN	N-CA-C	5.04	118.87	112.12
1	Ab	87	GLN	N-CA-C	5.04	118.87	112.12
1	An	241	THR	N-CA-C	5.04	117.85	109.94
2	Cq	88	LEU	N-CA-C	-5.04	105.45	112.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D0	48	LYS	N-CA-C	-5.04	104.78	112.04
3	D5	48	LYS	N-CA-C	-5.04	104.78	112.04
1	A1	87	GLN	N-CA-C	5.04	118.87	112.12
1	A5	26	VAL	N-CA-C	5.04	119.82	109.34
1	AD	241	THR	N-CA-C	5.04	117.85	109.94
1	AH	26	VAL	N-CA-C	5.04	119.82	109.34
1	AI	241	THR	N-CA-C	5.04	117.85	109.94
1	Af	26	VAL	N-CA-C	5.04	119.82	109.34
3	DE	48	LYS	N-CA-C	-5.04	104.79	112.04
3	DZ	48	LYS	N-CA-C	-5.04	104.79	112.04
3	Dr	36	VAL	CA-C-N	5.04	126.86	120.51
3	Dr	36	VAL	C-N-CA	5.04	126.86	120.51
3	EA	36	VAL	CA-C-N	5.04	126.86	120.51
3	EA	36	VAL	C-N-CA	5.04	126.86	120.51
1	A7	241	THR	N-CA-C	5.04	117.85	109.94
1	AM	107	PHE	CA-C-N	5.04	126.85	120.51
1	AM	107	PHE	C-N-CA	5.04	126.85	120.51
1	AR	241	THR	N-CA-C	5.04	117.85	109.94
1	AT	107	PHE	CA-C-N	5.04	126.85	120.51
1	AT	107	PHE	C-N-CA	5.04	126.85	120.51
1	Ad	26	VAL	N-CA-C	5.04	119.81	109.34
1	Ag	87	GLN	N-CA-C	5.04	118.87	112.12
1	Am	107	PHE	CA-C-N	5.04	126.85	120.51
1	Am	107	PHE	C-N-CA	5.04	126.85	120.51
3	D7	36	VAL	CA-C-N	5.04	126.85	120.51
3	D7	36	VAL	C-N-CA	5.04	126.85	120.51
3	Dd	36	VAL	CA-C-N	5.04	126.86	120.51
3	Dd	36	VAL	C-N-CA	5.04	126.86	120.51
1	AS	107	PHE	CA-C-N	5.03	126.85	120.51
1	AS	107	PHE	C-N-CA	5.03	126.85	120.51
1	BB	26	VAL	N-CA-C	5.03	119.81	109.34
1	BF	87	GLN	N-CA-C	5.03	118.86	112.12
3	DR	36	VAL	CA-C-N	5.03	126.85	120.51
3	DR	36	VAL	C-N-CA	5.03	126.85	120.51
3	Dg	48	LYS	N-CA-C	-5.03	104.79	112.04
1	Ab	26	VAL	N-CA-C	5.03	119.81	109.34
1	Ae	107	PHE	CA-C-N	5.03	126.85	120.51
1	Ae	107	PHE	C-N-CA	5.03	126.85	120.51
1	BB	107	PHE	CA-C-N	5.03	126.85	120.51
1	BB	107	PHE	C-N-CA	5.03	126.85	120.51
1	BD	26	VAL	N-CA-C	5.03	119.81	109.34
3	D7	48	LYS	N-CA-C	-5.03	104.79	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DI	48	LYS	N-CA-C	-5.03	104.79	112.04
3	DN	36	VAL	CA-C-N	5.03	126.85	120.51
3	DN	36	VAL	C-N-CA	5.03	126.85	120.51
1	A0	107	PHE	CA-C-N	5.03	126.85	120.51
1	A0	107	PHE	C-N-CA	5.03	126.85	120.51
1	A4	241	THR	N-CA-C	5.03	117.84	109.94
1	A6	241	THR	N-CA-C	5.03	117.84	109.94
1	AG	87	GLN	N-CA-C	5.03	118.86	112.12
1	AP	87	GLN	N-CA-C	5.03	118.86	112.12
1	AS	26	VAL	N-CA-C	5.03	119.80	109.34
1	AW	241	THR	N-CA-C	5.03	117.84	109.94
1	Ac	107	PHE	CA-C-N	5.03	126.85	120.51
1	Ac	107	PHE	C-N-CA	5.03	126.85	120.51
1	Ad	87	GLN	N-CA-C	5.03	118.86	112.12
1	Ah	241	THR	N-CA-C	5.03	117.84	109.94
1	Am	26	VAL	N-CA-C	5.03	119.80	109.34
1	BA	26	VAL	N-CA-C	5.03	119.80	109.34
1	BC	107	PHE	CA-C-N	5.03	126.85	120.51
1	BC	107	PHE	C-N-CA	5.03	126.85	120.51
1	BC	241	THR	N-CA-C	5.03	117.84	109.94
2	CR	94	PHE	N-CA-C	-5.03	105.50	111.69
3	D2	48	LYS	N-CA-C	-5.03	104.80	112.04
3	Dm	48	LYS	N-CA-C	-5.03	104.80	112.04
1	AC	241	THR	N-CA-C	5.03	117.83	109.94
1	AD	107	PHE	CA-C-N	5.03	126.85	120.51
1	AD	107	PHE	C-N-CA	5.03	126.85	120.51
1	Aa	87	GLN	N-CA-C	5.03	118.86	112.12
1	Ae	241	THR	N-CA-C	5.03	117.83	109.94
3	DJ	48	LYS	N-CA-C	-5.03	104.80	112.04
1	A9	241	THR	N-CA-C	5.03	117.83	109.94
1	AH	107	PHE	CA-C-N	5.03	126.84	120.51
1	AH	107	PHE	C-N-CA	5.03	126.84	120.51
3	D3	48	LYS	N-CA-C	-5.03	104.80	112.04
3	DP	48	LYS	N-CA-C	-5.03	104.80	112.04
3	DS	48	LYS	N-CA-C	-5.03	104.80	112.04
3	EC	48	LYS	N-CA-C	-5.03	104.80	112.04
1	A5	107	PHE	CA-C-N	5.03	126.84	120.51
1	A5	107	PHE	C-N-CA	5.03	126.84	120.51
1	AE	87	GLN	N-CA-C	5.03	118.85	112.12
1	AN	87	GLN	N-CA-C	5.03	118.85	112.12
1	AT	241	THR	N-CA-C	5.03	117.83	109.94
1	Aj	241	THR	N-CA-C	5.03	117.83	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ao	26	VAL	N-CA-C	5.03	119.79	109.34
2	Cq	94	PHE	N-CA-C	-5.03	105.51	111.69
3	D8	48	LYS	N-CA-C	-5.03	104.80	112.04
3	Do	48	LYS	N-CA-C	-5.03	104.80	112.04
4	F1	20	SER	N-CA-C	-5.03	100.85	109.24
4	Fx	20	SER	N-CA-C	-5.03	100.85	109.24
1	AO	107	PHE	CA-C-N	5.02	126.84	120.51
1	AO	107	PHE	C-N-CA	5.02	126.84	120.51
1	BI	26	VAL	N-CA-C	5.02	119.79	109.34
3	D4	48	LYS	N-CA-C	-5.02	104.81	112.04
3	DK	36	VAL	CA-C-N	5.02	126.84	120.51
3	DK	36	VAL	C-N-CA	5.02	126.84	120.51
1	A8	87	GLN	N-CA-C	5.02	118.85	112.12
1	AK	87	GLN	N-CA-C	5.02	118.85	112.12
1	AQ	26	VAL	N-CA-C	5.02	119.78	109.34
1	AT	26	VAL	N-CA-C	5.02	119.79	109.34
1	AU	241	THR	N-CA-C	5.02	117.83	109.94
1	AW	87	GLN	N-CA-C	5.02	118.85	112.12
1	Ah	87	GLN	N-CA-C	5.02	118.85	112.12
2	C0	94	PHE	N-CA-C	-5.02	105.51	111.69
3	DF	48	LYS	N-CA-C	-5.02	104.81	112.04
3	DG	48	LYS	N-CA-C	-5.02	104.81	112.04
3	DN	48	LYS	N-CA-C	-5.02	104.81	112.04
3	DQ	48	LYS	N-CA-C	-5.02	104.81	112.04
1	AJ	241	THR	N-CA-C	5.02	117.82	109.94
2	CK	94	PHE	N-CA-C	-5.02	105.52	111.69
3	DH	36	VAL	CA-C-N	5.02	126.84	120.51
3	DH	36	VAL	C-N-CA	5.02	126.84	120.51
3	DP	36	VAL	CA-C-N	5.02	126.84	120.51
3	DP	36	VAL	C-N-CA	5.02	126.84	120.51
3	DI	48	LYS	N-CA-C	-5.02	104.81	112.04
1	A4	26	VAL	N-CA-C	5.02	119.78	109.34
1	AX	87	GLN	N-CA-C	5.02	118.84	112.12
1	Ac	26	VAL	N-CA-C	5.02	119.78	109.34
1	Am	241	THR	N-CA-C	5.02	117.82	109.94
1	BC	26	VAL	N-CA-C	5.02	119.78	109.34
1	BG	26	VAL	N-CA-C	5.02	119.78	109.34
1	BH	87	GLN	N-CA-C	5.02	118.85	112.12
2	C6	94	PHE	N-CA-C	-5.02	105.52	111.69
2	Cx	94	PHE	N-CA-C	-5.02	105.52	111.69
3	DW	48	LYS	N-CA-C	-5.02	104.81	112.04
3	Dk	48	LYS	N-CA-C	-5.02	104.81	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Fv	20	SER	N-CA-C	-5.02	100.86	109.24
1	A1	241	THR	N-CA-C	5.02	117.82	109.94
1	AA	241	THR	N-CA-C	5.02	117.82	109.94
1	AN	241	THR	N-CA-C	5.02	117.82	109.94
1	AW	107	PHE	CA-C-N	5.02	126.83	120.51
1	AW	107	PHE	C-N-CA	5.02	126.83	120.51
1	An	87	GLN	N-CA-C	5.02	118.84	112.12
1	BE	107	PHE	CA-C-N	5.02	126.83	120.51
1	BE	107	PHE	C-N-CA	5.02	126.83	120.51
2	CG	94	PHE	N-CA-C	-5.02	105.52	111.69
3	DO	190	ALA	N-CA-C	5.02	117.83	110.30
4	F8	20	SER	N-CA-C	-5.02	100.86	109.24
4	Fw	20	SER	N-CA-C	-5.02	100.86	109.24
1	A0	241	THR	N-CA-C	5.02	117.81	109.94
2	Ck	94	PHE	N-CA-C	-5.02	105.52	111.69
3	DR	190	ALA	N-CA-C	5.02	117.82	110.30
1	A2	107	PHE	CA-C-N	5.01	126.83	120.51
1	A2	107	PHE	C-N-CA	5.01	126.83	120.51
1	A3	241	THR	N-CA-C	5.01	117.81	109.94
1	AC	87	GLN	N-CA-C	5.01	118.84	112.12
1	AJ	107	PHE	CA-C-N	5.01	126.83	120.51
1	AJ	107	PHE	C-N-CA	5.01	126.83	120.51
1	AQ	107	PHE	CA-C-N	5.01	126.83	120.51
1	AQ	107	PHE	C-N-CA	5.01	126.83	120.51
1	AU	107	PHE	CA-C-N	5.01	126.83	120.51
1	AU	107	PHE	C-N-CA	5.01	126.83	120.51
1	Ai	87	GLN	N-CA-C	5.01	118.84	112.12
1	BD	107	PHE	CA-C-N	5.01	126.83	120.51
1	BD	107	PHE	C-N-CA	5.01	126.83	120.51
1	BE	87	GLN	N-CA-C	5.01	118.84	112.12
1	BI	241	THR	N-CA-C	5.01	117.81	109.94
2	Cj	94	PHE	N-CA-C	-5.01	105.52	111.69
3	DY	36	VAL	CA-C-N	5.01	126.83	120.51
3	DY	36	VAL	C-N-CA	5.01	126.83	120.51
4	FE	20	SER	N-CA-C	-5.01	100.86	109.24
3	DV	48	LYS	N-CA-C	-5.01	104.82	112.04
3	DX	48	LYS	N-CA-C	-5.01	104.82	112.04
3	Dr	48	LYS	N-CA-C	-5.01	104.82	112.04
1	A6	107	PHE	CA-C-N	5.01	126.83	120.51
1	A6	107	PHE	C-N-CA	5.01	126.83	120.51
1	AT	87	GLN	N-CA-C	5.01	118.84	112.12
1	Ad	241	THR	N-CA-C	5.01	117.81	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Aj	87	GLN	N-CA-C	5.01	118.84	112.12
1	BH	241	THR	N-CA-C	5.01	117.81	109.94
1	BI	107	PHE	CA-C-N	5.01	126.83	120.51
1	BI	107	PHE	C-N-CA	5.01	126.83	120.51
2	Cu	94	PHE	N-CA-C	-5.01	105.53	111.69
3	DQ	190	ALA	N-CA-C	5.01	117.82	110.30
3	Di	48	LYS	N-CA-C	-5.01	104.83	112.04
4	FD	20	SER	N-CA-C	-5.01	100.87	109.24
4	FK	20	SER	N-CA-C	-5.01	100.87	109.24
1	A0	87	GLN	N-CA-C	5.01	118.83	112.12
1	AS	241	THR	N-CA-C	5.01	117.81	109.94
1	Aa	241	THR	N-CA-C	5.01	117.80	109.94
1	BC	87	GLN	N-CA-C	5.01	118.83	112.12
1	BH	107	PHE	CA-C-N	5.01	126.82	120.51
1	BH	107	PHE	C-N-CA	5.01	126.82	120.51
2	CZ	94	PHE	N-CA-C	-5.01	105.53	111.69
3	DU	48	LYS	N-CA-C	-5.01	104.83	112.04
1	A7	107	PHE	CA-C-N	5.01	126.82	120.51
1	A7	107	PHE	C-N-CA	5.01	126.82	120.51
1	AH	87	GLN	N-CA-C	5.01	118.83	112.12
1	AH	241	THR	N-CA-C	5.01	117.80	109.94
1	Ac	241	THR	N-CA-C	5.01	117.80	109.94
1	BF	241	THR	N-CA-C	5.01	117.80	109.94
2	C5	94	PHE	N-CA-C	-5.01	105.53	111.69
3	D3	190	ALA	N-CA-C	5.01	117.81	110.30
3	EA	48	LYS	N-CA-C	-5.01	104.83	112.04
4	F2	20	SER	N-CA-C	-5.01	100.88	109.24
4	FM	20	SER	N-CA-C	-5.01	100.88	109.24
4	Fb	20	SER	N-CA-C	-5.01	100.88	109.24
1	A3	87	GLN	N-CA-C	5.01	118.83	112.12
1	AQ	241	THR	N-CA-C	5.01	117.80	109.94
1	AU	87	GLN	N-CA-C	5.01	118.83	112.12
1	AZ	241	THR	N-CA-C	5.01	117.80	109.94
1	BD	241	THR	N-CA-C	5.01	117.80	109.94
4	FL	20	SER	N-CA-C	-5.01	100.88	109.24
4	Fd	20	SER	N-CA-C	-5.01	100.88	109.24
1	A2	241	THR	N-CA-C	5.00	117.80	109.94
1	A9	107	PHE	CA-C-N	5.00	126.82	120.51
1	A9	107	PHE	C-N-CA	5.00	126.82	120.51
1	AV	241	THR	N-CA-C	5.00	117.80	109.94
2	C1	94	PHE	N-CA-C	-5.00	105.53	111.69
2	CX	94	PHE	N-CA-C	-5.00	105.53	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cf	179	GLY	N-CA-C	-5.00	102.13	112.34
3	Dr	190	ALA	N-CA-C	5.00	117.81	110.30
1	A9	26	VAL	N-CA-C	5.00	119.75	109.34
1	AF	87	GLN	N-CA-C	5.00	118.82	112.12
1	AG	241	THR	N-CA-C	5.00	117.79	109.94
1	AK	107	PHE	CA-C-N	5.00	126.81	120.51
1	AK	107	PHE	C-N-CA	5.00	126.81	120.51
1	AP	241	THR	N-CA-C	5.00	117.80	109.94
2	C1	179	GLY	N-CA-C	-5.00	102.13	112.34
2	CD	94	PHE	N-CA-C	-5.00	105.54	111.69
2	CR	179	GLY	N-CA-C	-5.00	102.13	112.34
2	Cb	94	PHE	N-CA-C	-5.00	105.54	111.69
3	D4	190	ALA	N-CA-C	5.00	117.80	110.30
3	DC	48	LYS	N-CA-C	-5.00	104.83	112.04
3	ED	48	LYS	N-CA-C	-5.00	104.83	112.04
1	AA	107	PHE	CA-C-N	5.00	126.81	120.51
1	AA	107	PHE	C-N-CA	5.00	126.81	120.51
1	AI	87	GLN	N-CA-C	5.00	118.82	112.12
1	AR	107	PHE	CA-C-N	5.00	126.81	120.51
1	AR	107	PHE	C-N-CA	5.00	126.81	120.51
1	Af	107	PHE	CA-C-N	5.00	126.81	120.51
1	Af	107	PHE	C-N-CA	5.00	126.81	120.51
3	DH	48	LYS	N-CA-C	-5.00	104.84	112.04
4	FP	20	SER	N-CA-C	-5.00	100.89	109.24
4	Fj	20	SER	N-CA-C	-5.00	100.89	109.24

There are no chirality outliers.

All (120) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	D0	26	TYR	Sidechain
3	D0	53	PHE	Sidechain
3	D1	26	TYR	Sidechain
3	D1	53	PHE	Sidechain
3	D2	26	TYR	Sidechain
3	D2	53	PHE	Sidechain
3	D3	26	TYR	Sidechain
3	D3	53	PHE	Sidechain
3	D4	26	TYR	Sidechain
3	D4	53	PHE	Sidechain
3	D5	26	TYR	Sidechain
3	D5	53	PHE	Sidechain

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Mol	Chain	Res	Type	Group
3	D6	26	TYR	Sidechain
3	D6	53	PHE	Sidechain
3	D7	26	TYR	Sidechain
3	D7	53	PHE	Sidechain
3	D8	26	TYR	Sidechain
3	D8	53	PHE	Sidechain
3	D9	26	TYR	Sidechain
3	D9	53	PHE	Sidechain
3	DA	26	TYR	Sidechain
3	DA	53	PHE	Sidechain
3	DB	26	TYR	Sidechain
3	DB	53	PHE	Sidechain
3	DC	26	TYR	Sidechain
3	DC	53	PHE	Sidechain
3	DD	26	TYR	Sidechain
3	DD	53	PHE	Sidechain
3	DE	26	TYR	Sidechain
3	DE	53	PHE	Sidechain
3	DF	26	TYR	Sidechain
3	DF	53	PHE	Sidechain
3	DG	26	TYR	Sidechain
3	DG	53	PHE	Sidechain
3	DH	26	TYR	Sidechain
3	DH	53	PHE	Sidechain
3	DI	26	TYR	Sidechain
3	DI	53	PHE	Sidechain
3	DJ	26	TYR	Sidechain
3	DJ	53	PHE	Sidechain
3	DK	26	TYR	Sidechain
3	DK	53	PHE	Sidechain
3	DL	26	TYR	Sidechain
3	DL	53	PHE	Sidechain
3	DM	26	TYR	Sidechain
3	DM	53	PHE	Sidechain
3	DN	26	TYR	Sidechain
3	DN	53	PHE	Sidechain
3	DO	26	TYR	Sidechain
3	DO	53	PHE	Sidechain
3	DP	26	TYR	Sidechain
3	DP	53	PHE	Sidechain
3	DQ	26	TYR	Sidechain
3	DQ	53	PHE	Sidechain

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Mol	Chain	Res	Type	Group
3	DR	26	TYR	Sidechain
3	DR	53	PHE	Sidechain
3	DS	26	TYR	Sidechain
3	DS	53	PHE	Sidechain
3	DT	26	TYR	Sidechain
3	DT	53	PHE	Sidechain
3	DU	26	TYR	Sidechain
3	DU	53	PHE	Sidechain
3	DV	26	TYR	Sidechain
3	DV	53	PHE	Sidechain
3	DW	26	TYR	Sidechain
3	DW	53	PHE	Sidechain
3	DX	26	TYR	Sidechain
3	DX	53	PHE	Sidechain
3	DY	26	TYR	Sidechain
3	DY	53	PHE	Sidechain
3	DZ	26	TYR	Sidechain
3	DZ	53	PHE	Sidechain
3	Da	26	TYR	Sidechain
3	Da	53	PHE	Sidechain
3	Db	26	TYR	Sidechain
3	Db	53	PHE	Sidechain
3	Dc	26	TYR	Sidechain
3	Dc	53	PHE	Sidechain
3	Dd	26	TYR	Sidechain
3	Dd	53	PHE	Sidechain
3	De	26	TYR	Sidechain
3	De	53	PHE	Sidechain
3	Df	26	TYR	Sidechain
3	Df	53	PHE	Sidechain
3	Dg	26	TYR	Sidechain
3	Dg	53	PHE	Sidechain
3	Dh	26	TYR	Sidechain
3	Dh	53	PHE	Sidechain
3	Di	26	TYR	Sidechain
3	Di	53	PHE	Sidechain
3	Dj	26	TYR	Sidechain
3	Dj	53	PHE	Sidechain
3	Dk	26	TYR	Sidechain
3	Dk	53	PHE	Sidechain
3	DI	26	TYR	Sidechain
3	DI	53	PHE	Sidechain

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Mol	Chain	Res	Type	Group
3	Dm	26	TYR	Sidechain
3	Dm	53	PHE	Sidechain
3	Dn	26	TYR	Sidechain
3	Dn	53	PHE	Sidechain
3	Do	26	TYR	Sidechain
3	Do	53	PHE	Sidechain
3	Dp	26	TYR	Sidechain
3	Dp	53	PHE	Sidechain
3	Dq	26	TYR	Sidechain
3	Dq	53	PHE	Sidechain
3	Dr	26	TYR	Sidechain
3	Dr	53	PHE	Sidechain
3	Ds	26	TYR	Sidechain
3	Ds	53	PHE	Sidechain
3	EA	26	TYR	Sidechain
3	EA	53	PHE	Sidechain
3	EB	26	TYR	Sidechain
3	EB	53	PHE	Sidechain
3	EC	26	TYR	Sidechain
3	EC	53	PHE	Sidechain
3	ED	26	TYR	Sidechain
3	ED	53	PHE	Sidechain
3	EE	26	TYR	Sidechain
3	EE	53	PHE	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A0	1929	0	1864	298	0
1	A1	1929	0	1864	294	0
1	A2	1929	0	1864	289	0
1	A3	1929	0	1864	289	0
1	A4	1929	0	1864	292	0
1	A5	1929	0	1864	298	0
1	A6	1929	0	1864	294	0
1	A7	1929	0	1864	295	0
1	A8	1929	0	1864	294	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A9	1929	0	1864	294	0
1	AA	1929	0	1864	291	0
1	AB	1929	0	1864	294	0
1	AC	1929	0	1864	292	0
1	AD	1929	0	1864	289	0
1	AE	1929	0	1864	293	0
1	AF	1929	0	1864	291	0
1	AG	1929	0	1864	300	0
1	AH	1929	0	1864	291	0
1	AI	1929	0	1864	292	0
1	AJ	1929	0	1864	293	0
1	AK	1929	0	1864	289	0
1	AL	1929	0	1864	296	0
1	AM	1929	0	1864	291	0
1	AN	1929	0	1864	296	0
1	AO	1929	0	1864	293	0
1	AP	1929	0	1864	288	0
1	AQ	1929	0	1864	292	0
1	AR	1929	0	1864	289	0
1	AS	1929	0	1864	293	0
1	AT	1929	0	1864	290	0
1	AU	1929	0	1864	297	0
1	AV	1929	0	1864	300	0
1	AW	1929	0	1864	293	0
1	AX	1929	0	1864	288	0
1	AY	1929	0	1864	295	0
1	AZ	1929	0	1864	297	0
1	Aa	1929	0	1864	296	0
1	Ab	1929	0	1864	295	0
1	Ac	1929	0	1864	295	0
1	Ad	1929	0	1864	291	0
1	Ae	1929	0	1864	295	0
1	Af	1929	0	1864	295	0
1	Ag	1929	0	1864	299	0
1	Ah	1929	0	1864	289	0
1	Ai	1929	0	1864	286	0
1	Aj	1929	0	1864	286	0
1	Ak	1929	0	1864	295	0
1	Al	1929	0	1864	290	0
1	Am	1929	0	1864	296	0
1	An	1929	0	1864	286	0
1	Ao	1929	0	1864	296	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BA	1929	0	1864	299	0
1	BB	1929	0	1864	295	0
1	BC	1929	0	1864	296	0
1	BD	1929	0	1864	296	0
1	BE	1929	0	1864	298	0
1	BF	1929	0	1864	292	0
1	BG	1929	0	1864	298	0
1	BH	1929	0	1864	298	0
1	BI	1929	0	1864	308	0
2	C0	1537	0	1497	235	0
2	C1	1537	0	1497	235	0
2	C2	1537	0	1497	236	0
2	C3	1537	0	1497	237	0
2	C4	1537	0	1497	236	0
2	C5	1537	0	1497	236	0
2	C6	1537	0	1497	238	0
2	C7	1537	0	1497	233	0
2	C8	1537	0	1497	232	0
2	C9	1537	0	1497	240	0
2	CA	1537	0	1497	239	0
2	CB	1537	0	1497	237	0
2	CC	1537	0	1497	236	0
2	CD	1537	0	1497	243	0
2	CE	1537	0	1497	238	0
2	CF	1537	0	1497	238	0
2	CG	1537	0	1497	233	0
2	CH	1537	0	1497	235	0
2	CI	1537	0	1497	235	0
2	CJ	1537	0	1497	239	0
2	CK	1537	0	1497	240	0
2	CL	1537	0	1497	232	0
2	CM	1537	0	1497	233	0
2	CN	1537	0	1497	234	0
2	CO	1537	0	1497	230	0
2	CP	1537	0	1497	237	0
2	CQ	1537	0	1497	239	0
2	CR	1537	0	1497	240	0
2	CS	1537	0	1497	232	0
2	CT	1537	0	1497	239	0
2	CU	1537	0	1497	241	0
2	CV	1537	0	1497	238	0
2	CW	1537	0	1497	239	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	CX	1537	0	1497	240	0
2	CY	1537	0	1497	235	0
2	CZ	1537	0	1497	237	0
2	Ca	1537	0	1497	238	0
2	Cb	1537	0	1497	238	0
2	Cc	1537	0	1497	236	0
2	Cd	1537	0	1497	237	0
2	Ce	1537	0	1497	234	0
2	Cf	1537	0	1497	239	0
2	Cg	1537	0	1497	234	0
2	Ch	1537	0	1497	236	0
2	Ci	1537	0	1497	240	0
2	Cj	1537	0	1497	237	0
2	Ck	1537	0	1497	235	0
2	Cl	1537	0	1497	234	0
2	Cm	1537	0	1497	238	0
2	Cn	1537	0	1497	236	0
2	Co	1537	0	1497	238	0
2	Cp	1537	0	1497	236	0
2	Cq	1537	0	1497	237	0
2	Cr	1537	0	1497	239	0
2	Cs	1537	0	1497	234	0
2	Ct	1537	0	1497	238	0
2	Cu	1537	0	1497	240	0
2	Cv	1537	0	1497	237	0
2	Cw	1537	0	1497	237	0
2	Cx	1537	0	1497	236	0
3	D0	1719	0	1677	271	0
3	D1	1719	0	1677	274	0
3	D2	1719	0	1677	279	0
3	D3	1719	0	1677	274	0
3	D4	1719	0	1677	277	0
3	D5	1719	0	1677	273	0
3	D6	1719	0	1677	273	0
3	D7	1719	0	1677	274	0
3	D8	1719	0	1677	275	0
3	D9	1719	0	1677	273	0
3	DA	1719	0	1677	274	0
3	DB	1719	0	1677	273	0
3	DC	1719	0	1677	271	0
3	DD	1719	0	1677	277	0
3	DE	1719	0	1677	274	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	DF	1719	0	1677	270	0
3	DG	1719	0	1677	271	0
3	DH	1719	0	1677	273	0
3	DI	1719	0	1677	272	0
3	DJ	1719	0	1677	276	0
3	DK	1719	0	1677	276	0
3	DL	1719	0	1677	272	0
3	DM	1719	0	1677	270	0
3	DN	1719	0	1677	272	0
3	DO	1719	0	1677	279	0
3	DP	1719	0	1677	273	0
3	DQ	1719	0	1677	269	0
3	DR	1719	0	1677	273	0
3	DS	1719	0	1677	274	0
3	DT	1719	0	1677	269	0
3	DU	1719	0	1677	279	0
3	DV	1719	0	1677	271	0
3	DW	1719	0	1677	276	0
3	DX	1719	0	1677	278	0
3	DY	1719	0	1677	275	0
3	DZ	1719	0	1677	270	0
3	Da	1719	0	1677	271	0
3	Db	1719	0	1677	269	0
3	Dc	1719	0	1677	273	0
3	Dd	1719	0	1677	272	0
3	De	1719	0	1677	272	0
3	Df	1719	0	1677	273	0
3	Dg	1719	0	1677	275	0
3	Dh	1719	0	1677	272	0
3	Di	1719	0	1677	274	0
3	Dj	1719	0	1677	267	0
3	Dk	1719	0	1677	270	0
3	Dl	1719	0	1677	271	0
3	Dm	1719	0	1677	266	0
3	Dn	1719	0	1677	274	0
3	Do	1719	0	1677	274	0
3	Dp	1719	0	1677	270	0
3	Dq	1719	0	1677	277	0
3	Dr	1719	0	1677	276	0
3	Ds	1719	0	1677	276	0
3	EA	1719	0	1677	275	0
3	EB	1719	0	1677	273	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	EC	1719	0	1677	279	0
3	ED	1719	0	1677	274	0
3	EE	1719	0	1677	273	0
4	F0	166	0	146	26	0
4	F1	166	0	146	26	0
4	F2	166	0	146	26	0
4	F3	166	0	146	26	0
4	F4	166	0	146	26	0
4	F5	166	0	146	25	0
4	F6	166	0	146	26	0
4	F7	166	0	146	25	0
4	F8	166	0	146	25	0
4	F9	166	0	146	27	0
4	FA	166	0	146	27	0
4	FB	166	0	146	25	0
4	FC	166	0	146	27	0
4	FD	166	0	146	26	0
4	FE	166	0	146	25	0
4	FF	166	0	146	24	0
4	FG	166	0	146	26	0
4	FH	166	0	146	25	0
4	FI	166	0	146	26	0
4	FJ	166	0	146	26	0
4	FK	166	0	146	25	0
4	FL	166	0	146	26	0
4	FM	166	0	146	25	0
4	FN	166	0	146	25	0
4	FO	166	0	146	26	0
4	FP	166	0	146	26	0
4	FQ	166	0	146	26	0
4	FR	166	0	146	25	0
4	FS	166	0	146	25	0
4	FT	166	0	146	26	0
4	FU	166	0	146	27	0
4	FV	166	0	146	24	0
4	FW	166	0	146	25	0
4	FX	166	0	146	26	0
4	FY	166	0	146	25	0
4	FZ	166	0	146	25	0
4	Fa	166	0	146	26	0
4	Fb	166	0	146	25	0
4	Fc	166	0	146	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	Fd	166	0	146	25	0
4	Fe	166	0	146	26	0
4	Ff	166	0	146	25	0
4	Fg	166	0	146	26	0
4	Fh	166	0	146	25	0
4	Fi	166	0	146	24	0
4	Fj	166	0	146	25	0
4	Fk	166	0	146	25	0
4	Fl	166	0	146	26	0
4	Fm	166	0	146	24	0
4	Fn	166	0	146	25	0
4	Fo	166	0	146	25	0
4	Fp	166	0	146	24	0
4	Fq	166	0	146	26	0
4	Fr	166	0	146	26	0
4	Fs	166	0	146	25	0
4	Ft	166	0	146	26	0
4	Fu	166	0	146	26	0
4	Fv	166	0	146	26	0
4	Fw	166	0	146	26	0
4	Fx	166	0	146	26	0
All	All	321060	0	311040	38972	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 62.

All (38972) 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)
3:D9:119:LYS:NZ	3:D9:119:LYS:CE	1.67	1.58
3:DS:119:LYS:CE	3:DS:119:LYS:NZ	1.67	1.58
3:DD:119:LYS:NZ	3:DD:119:LYS:CE	1.67	1.57
3:DI:119:LYS:CE	3:DI:119:LYS:NZ	1.67	1.57
3:Dn:119:LYS:NZ	3:Dn:119:LYS:CE	1.67	1.57
3:D3:119:LYS:CE	3:D3:119:LYS:NZ	1.67	1.56
3:D4:119:LYS:CE	3:D4:119:LYS:NZ	1.67	1.56
3:D8:119:LYS:NZ	3:D8:119:LYS:CE	1.67	1.56
3:DG:119:LYS:NZ	3:DG:119:LYS:CE	1.67	1.56
3:DM:119:LYS:NZ	3:DM:119:LYS:CE	1.67	1.56
3:Dp:119:LYS:NZ	3:Dp:119:LYS:CE	1.67	1.56
3:DQ:119:LYS:NZ	3:DQ:119:LYS:CE	1.67	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dh:119:LYS:NZ	3:Dh:119:LYS:CE	1.67	1.56
3:DI:119:LYS:NZ	3:DI:119:LYS:CE	1.67	1.55
3:DY:119:LYS:NZ	3:DY:119:LYS:CE	1.67	1.55
3:Dm:119:LYS:NZ	3:Dm:119:LYS:CE	1.67	1.55
3:Do:119:LYS:NZ	3:Do:119:LYS:CE	1.67	1.55
3:ED:119:LYS:NZ	3:ED:119:LYS:CE	1.67	1.54
3:Dj:119:LYS:CE	3:Dj:119:LYS:NZ	1.67	1.54
3:DB:119:LYS:NZ	3:DB:119:LYS:CE	1.67	1.54
3:DK:119:LYS:NZ	3:DK:119:LYS:CE	1.67	1.54
3:D2:119:LYS:CE	3:D2:119:LYS:NZ	1.67	1.54
3:Db:119:LYS:NZ	3:Db:119:LYS:CE	1.67	1.54
3:Di:119:LYS:CE	3:Di:119:LYS:NZ	1.67	1.54
3:EB:119:LYS:NZ	3:EB:119:LYS:CE	1.67	1.54
3:EE:119:LYS:NZ	3:EE:119:LYS:CE	1.67	1.54
3:DR:119:LYS:NZ	3:DR:119:LYS:CE	1.67	1.54
3:DZ:119:LYS:NZ	3:DZ:119:LYS:CE	1.67	1.53
3:Dr:119:LYS:NZ	3:Dr:119:LYS:CE	1.67	1.53
3:DU:119:LYS:CE	3:DU:119:LYS:NZ	1.67	1.53
3:Dd:119:LYS:NZ	3:Dd:119:LYS:CE	1.67	1.53
3:DO:119:LYS:NZ	3:DO:119:LYS:CE	1.67	1.53
3:DX:119:LYS:NZ	3:DX:119:LYS:CE	1.67	1.53
3:DA:119:LYS:NZ	3:DA:119:LYS:CE	1.67	1.52
3:Dg:119:LYS:NZ	3:Dg:119:LYS:CE	1.67	1.52
3:D0:119:LYS:NZ	3:D0:119:LYS:CE	1.67	1.52
3:DF:119:LYS:NZ	3:DF:119:LYS:CE	1.67	1.52
3:D1:119:LYS:NZ	3:D1:119:LYS:CE	1.67	1.52
3:D7:119:LYS:NZ	3:D7:119:LYS:CE	1.67	1.52
3:DE:119:LYS:NZ	3:DE:119:LYS:CE	1.67	1.52
3:Dc:119:LYS:NZ	3:Dc:119:LYS:CE	1.67	1.52
3:Dk:119:LYS:CE	3:Dk:119:LYS:NZ	1.67	1.52
3:EA:119:LYS:NZ	3:EA:119:LYS:CE	1.67	1.52
3:D5:119:LYS:NZ	3:D5:119:LYS:CE	1.67	1.51
3:DW:119:LYS:NZ	3:DW:119:LYS:CE	1.67	1.51
3:D6:119:LYS:NZ	3:D6:119:LYS:CE	1.67	1.51
3:DC:119:LYS:NZ	3:DC:119:LYS:CE	1.67	1.51
3:EC:119:LYS:NZ	3:EC:119:LYS:CE	1.67	1.51
3:DV:119:LYS:NZ	3:DV:119:LYS:CE	1.67	1.50
3:De:119:LYS:NZ	3:De:119:LYS:CE	1.67	1.50
3:Da:119:LYS:NZ	3:Da:119:LYS:CE	1.67	1.49
1:Ac:13:THR:HB	3:De:157:ASN:HB2	1.27	1.17
1:AI:13:THR:HB	3:DI:157:ASN:HB2	1.27	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:13:THR:HB	3:Dp:157:ASN:HB2	1.27	1.16
1:AF:13:THR:HB	3:DF:157:ASN:HB2	1.27	1.16
1:Ad:13:THR:HB	3:Df:157:ASN:HB2	1.27	1.16
1:Ab:13:THR:HB	3:Dd:157:ASN:HB2	1.27	1.16
1:Aa:13:THR:HB	3:Dc:157:ASN:HB2	1.27	1.15
1:BD:13:THR:HB	3:Ds:157:ASN:HB2	1.27	1.15
1:A4:13:THR:HB	3:D5:157:ASN:HB2	1.27	1.15
1:Am:13:THR:HB	3:Do:157:ASN:HB2	1.27	1.15
1:A2:13:THR:HB	3:D3:157:ASN:HB2	1.27	1.15
1:AN:13:THR:HB	3:DN:157:ASN:HB2	1.27	1.15
1:AC:13:THR:HB	3:DC:157:ASN:HB2	1.27	1.14
2:Cf:104:VAL:HG13	2:Cf:222:VAL:HG22	1.15	1.14
1:BB:13:THR:HB	3:Dq:157:ASN:HB2	1.27	1.14
2:C9:104:VAL:HG13	2:C9:222:VAL:HG22	1.15	1.14
2:CO:104:VAL:HG13	2:CO:222:VAL:HG22	1.15	1.14
2:Ch:104:VAL:HG13	2:Ch:222:VAL:HG22	1.15	1.14
1:An:13:THR:HB	3:Db:157:ASN:HB2	1.27	1.14
1:AU:13:THR:HB	3:DV:157:ASN:HB2	1.27	1.14
2:CN:104:VAL:HG13	2:CN:222:VAL:HG22	1.15	1.14
2:Cc:104:VAL:HG13	2:Cc:222:VAL:HG22	1.15	1.14
1:AG:13:THR:HB	3:DG:157:ASN:HB2	1.27	1.14
1:AH:13:THR:HB	3:DH:157:ASN:HB2	1.27	1.14
2:Ct:104:VAL:HG13	2:Ct:222:VAL:HG22	1.15	1.13
1:AE:13:THR:HB	3:DE:157:ASN:HB2	1.27	1.13
1:AQ:13:THR:HB	3:DQ:157:ASN:HB2	1.27	1.13
2:Cg:104:VAL:HG13	2:Cg:222:VAL:HG22	1.15	1.13
2:Cr:104:VAL:HG13	2:Cr:222:VAL:HG22	1.15	1.13
1:BI:13:THR:HB	3:EE:157:ASN:HB2	1.27	1.12
2:C8:104:VAL:HG13	2:C8:222:VAL:HG22	1.15	1.13
2:CQ:104:VAL:HG13	2:CQ:222:VAL:HG22	1.15	1.12
1:AD:13:THR:HB	3:DD:157:ASN:HB2	1.27	1.12
2:Cl:104:VAL:HG13	2:Cl:222:VAL:HG22	1.15	1.12
2:Cm:104:VAL:HG13	2:Cm:222:VAL:HG22	1.15	1.12
2:Cu:104:VAL:HG13	2:Cu:222:VAL:HG22	1.15	1.12
2:Cv:104:VAL:HG13	2:Cv:222:VAL:HG22	1.15	1.12
1:AJ:13:THR:HB	3:DJ:157:ASN:HB2	1.27	1.12
2:C1:104:VAL:HG13	2:C1:222:VAL:HG22	1.15	1.12
2:CC:104:VAL:HG13	2:CC:222:VAL:HG22	1.15	1.12
2:Cd:104:VAL:HG13	2:Cd:222:VAL:HG22	1.15	1.12
1:A3:13:THR:HB	3:D4:157:ASN:HB2	1.27	1.12
1:AY:13:THR:HB	3:DZ:157:ASN:HB2	1.27	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ae:13:THR:HB	3:Dg:157:ASN:HB2	1.27	1.12
1:BE:13:THR:HB	3:EA:157:ASN:HB2	1.27	1.12
2:C2:104:VAL:HG13	2:C2:222:VAL:HG22	1.15	1.12
1:AB:13:THR:HB	3:DB:157:ASN:HB2	1.27	1.11
1:AT:13:THR:HB	3:DU:157:ASN:HB2	1.27	1.11
1:Ak:13:THR:HB	3:Dm:157:ASN:HB2	1.27	1.11
2:CB:104:VAL:HG13	2:CB:222:VAL:HG22	1.15	1.11
1:AV:13:THR:HB	3:DW:157:ASN:HB2	1.27	1.11
1:Aj:13:THR:HB	3:DI:157:ASN:HB2	1.27	1.11
1:BH:13:THR:HB	3:ED:157:ASN:HB2	1.27	1.11
2:Cs:104:VAL:HG13	2:Cs:222:VAL:HG22	1.15	1.11
1:A0:13:THR:HB	3:D1:157:ASN:HB2	1.27	1.11
2:CP:104:VAL:HG13	2:CP:222:VAL:HG22	1.15	1.11
2:Cx:104:VAL:HG13	2:Cx:222:VAL:HG22	1.15	1.11
1:AX:13:THR:HB	3:DY:157:ASN:HB2	1.27	1.11
1:BC:13:THR:HB	3:Dr:157:ASN:HB2	1.27	1.11
2:CT:104:VAL:HG13	2:CT:222:VAL:HG22	1.15	1.11
2:CU:104:VAL:HG13	2:CU:222:VAL:HG22	1.15	1.11
1:AM:13:THR:HB	3:DM:157:ASN:HB2	1.27	1.11
1:AS:13:THR:HB	3:DT:157:ASN:HB2	1.27	1.11
1:Al:13:THR:HB	3:Dn:157:ASN:HB2	1.27	1.11
2:CE:104:VAL:HG13	2:CE:222:VAL:HG22	1.15	1.11
2:Co:104:VAL:HG13	2:Co:222:VAL:HG22	1.15	1.11
1:A6:13:THR:HB	3:D7:157:ASN:HB2	1.27	1.10
2:CM:104:VAL:HG13	2:CM:222:VAL:HG22	1.15	1.10
2:CX:104:VAL:HG13	2:CX:222:VAL:HG22	1.15	1.10
2:CY:104:VAL:HG13	2:CY:222:VAL:HG22	1.15	1.10
1:AL:13:THR:HB	3:DL:157:ASN:HB2	1.27	1.10
1:AR:13:THR:HB	3:DR:157:ASN:HB2	1.27	1.10
2:C4:104:VAL:HG13	2:C4:222:VAL:HG22	1.15	1.10
2:Ce:104:VAL:HG13	2:Ce:222:VAL:HG22	1.15	1.10
1:A7:13:THR:HB	3:D8:157:ASN:HB2	1.27	1.10
2:C6:104:VAL:HG13	2:C6:222:VAL:HG22	1.15	1.10
2:Cq:104:VAL:HG13	2:Cq:222:VAL:HG22	1.15	1.10
1:A1:13:THR:HB	3:D2:157:ASN:HB2	1.27	1.10
2:CW:104:VAL:HG13	2:CW:222:VAL:HG22	1.15	1.10
2:Ca:104:VAL:HG13	2:Ca:222:VAL:HG22	1.15	1.10
2:Cn:104:VAL:HG13	2:Cn:222:VAL:HG22	1.15	1.09
1:AP:13:THR:HB	3:DP:157:ASN:HB2	1.27	1.09
2:C7:104:VAL:HG13	2:C7:222:VAL:HG22	1.15	1.09
1:AK:13:THR:HB	3:DK:157:ASN:HB2	1.27	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:104:VAL:HG13	2:CA:222:VAL:HG22	1.15	1.09
2:CG:104:VAL:HG13	2:CG:222:VAL:HG22	1.15	1.09
2:CI:104:VAL:HG13	2:CI:222:VAL:HG22	1.15	1.09
2:CS:104:VAL:HG13	2:CS:222:VAL:HG22	1.15	1.09
2:CZ:104:VAL:HG13	2:CZ:222:VAL:HG22	1.15	1.09
2:Ci:104:VAL:HG13	2:Ci:222:VAL:HG22	1.15	1.09
1:AA:13:THR:HB	3:DA:157:ASN:HB2	1.27	1.09
1:AO:13:THR:HB	3:DO:157:ASN:HB2	1.27	1.09
1:AW:13:THR:HB	3:DX:157:ASN:HB2	1.27	1.09
2:CJ:104:VAL:HG13	2:CJ:222:VAL:HG22	1.15	1.09
2:C3:104:VAL:HG13	2:C3:222:VAL:HG22	1.15	1.08
1:A8:13:THR:HB	3:D9:157:ASN:HB2	1.27	1.08
1:BG:13:THR:HB	3:EC:157:ASN:HB2	1.27	1.08
2:CD:104:VAL:HG13	2:CD:222:VAL:HG22	1.15	1.08
2:CF:104:VAL:HG13	2:CF:222:VAL:HG22	1.15	1.08
2:C4:44:PRO:HB2	2:C4:47:VAL:HG22	1.36	1.08
2:CU:44:PRO:HB2	2:CU:47:VAL:HG22	1.36	1.08
2:C7:44:PRO:HB2	2:C7:47:VAL:HG22	1.36	1.08
2:CB:44:PRO:HB2	2:CB:47:VAL:HG22	1.36	1.08
2:CG:44:PRO:HB2	2:CG:47:VAL:HG22	1.36	1.08
2:CK:104:VAL:HG13	2:CK:222:VAL:HG22	1.15	1.08
2:CL:104:VAL:HG13	2:CL:222:VAL:HG22	1.15	1.08
2:Cf:44:PRO:HB2	2:Cf:47:VAL:HG22	1.36	1.08
2:Ct:44:PRO:HB2	2:Ct:47:VAL:HG22	1.36	1.08
2:Cu:44:PRO:HB2	2:Cu:47:VAL:HG22	1.36	1.08
1:A9:13:THR:HB	3:Da:157:ASN:HB2	1.27	1.08
2:C0:44:PRO:HB2	2:C0:47:VAL:HG22	1.36	1.08
2:C0:104:VAL:HG13	2:C0:222:VAL:HG22	1.15	1.08
2:CH:104:VAL:HG13	2:CH:222:VAL:HG22	1.15	1.08
2:CP:44:PRO:HB2	2:CP:47:VAL:HG22	1.36	1.08
2:Cb:104:VAL:HG13	2:Cb:222:VAL:HG22	1.15	1.08
2:Cc:44:PRO:HB2	2:Cc:47:VAL:HG22	1.36	1.08
2:Ce:44:PRO:HB2	2:Ce:47:VAL:HG22	1.36	1.08
2:Ck:104:VAL:HG13	2:Ck:222:VAL:HG22	1.15	1.08
2:Cl:44:PRO:HB2	2:Cl:47:VAL:HG22	1.36	1.08
2:Cs:44:PRO:HB2	2:Cs:47:VAL:HG22	1.36	1.08
2:Cv:44:PRO:HB2	2:Cv:47:VAL:HG22	1.36	1.08
2:Cw:104:VAL:HG13	2:Cw:222:VAL:HG22	1.15	1.08
2:Cx:44:PRO:HB2	2:Cx:47:VAL:HG22	1.36	1.08
1:Af:13:THR:HB	3:Dh:157:ASN:HB2	1.27	1.07
2:CN:44:PRO:HB2	2:CN:47:VAL:HG22	1.36	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cp:104:VAL:HG13	2:Cp:222:VAL:HG22	1.15	1.07
1:Ao:13:THR:HB	3:DS:157:ASN:HB2	1.27	1.07
2:CR:104:VAL:HG13	2:CR:222:VAL:HG22	1.15	1.07
2:Cj:104:VAL:HG13	2:Cj:222:VAL:HG22	1.15	1.07
1:A5:13:THR:HB	3:D6:157:ASN:HB2	1.27	1.07
1:AZ:13:THR:HB	3:D0:157:ASN:HB2	1.27	1.07
1:Ag:13:THR:HB	3:Di:157:ASN:HB2	1.27	1.07
2:C1:44:PRO:HB2	2:C1:47:VAL:HG22	1.36	1.07
2:C3:44:PRO:HB2	2:C3:47:VAL:HG22	1.36	1.07
2:CE:44:PRO:HB2	2:CE:47:VAL:HG22	1.36	1.07
2:CY:44:PRO:HB2	2:CY:47:VAL:HG22	1.36	1.07
2:C2:44:PRO:HB2	2:C2:47:VAL:HG22	1.36	1.07
2:C6:44:PRO:HB2	2:C6:47:VAL:HG22	1.36	1.07
2:Cg:44:PRO:HB2	2:Cg:47:VAL:HG22	1.36	1.07
2:CD:44:PRO:HB2	2:CD:47:VAL:HG22	1.36	1.07
2:CJ:44:PRO:HB2	2:CJ:47:VAL:HG22	1.36	1.07
2:CM:44:PRO:HB2	2:CM:47:VAL:HG22	1.36	1.07
2:Ch:44:PRO:HB2	2:Ch:47:VAL:HG22	1.36	1.07
1:BF:13:THR:HB	3:EB:157:ASN:HB2	1.27	1.06
2:C9:44:PRO:HB2	2:C9:47:VAL:HG22	1.36	1.06
2:CR:44:PRO:HB2	2:CR:47:VAL:HG22	1.36	1.06
2:Cw:44:PRO:HB2	2:Cw:47:VAL:HG22	1.36	1.06
2:C5:104:VAL:HG13	2:C5:222:VAL:HG22	1.15	1.06
2:CV:104:VAL:HG13	2:CV:222:VAL:HG22	1.15	1.06
2:CX:44:PRO:HB2	2:CX:47:VAL:HG22	1.36	1.06
2:Ck:44:PRO:HB2	2:Ck:47:VAL:HG22	1.36	1.06
2:Cq:44:PRO:HB2	2:Cq:47:VAL:HG22	1.36	1.06
1:Ai:13:THR:HB	3:Dk:157:ASN:HB2	1.27	1.06
2:C5:44:PRO:HB2	2:C5:47:VAL:HG22	1.36	1.06
1:Ah:13:THR:HB	3:Dj:157:ASN:HB2	1.27	1.06
2:C8:44:PRO:HB2	2:C8:47:VAL:HG22	1.36	1.06
2:CF:44:PRO:HB2	2:CF:47:VAL:HG22	1.36	1.06
2:CS:44:PRO:HB2	2:CS:47:VAL:HG22	1.36	1.06
2:CZ:44:PRO:HB2	2:CZ:47:VAL:HG22	1.36	1.06
2:Cd:44:PRO:HB2	2:Cd:47:VAL:HG22	1.36	1.06
2:Ci:44:PRO:HB2	2:Ci:47:VAL:HG22	1.36	1.06
2:Cn:44:PRO:HB2	2:Cn:47:VAL:HG22	1.36	1.06
2:Cp:44:PRO:HB2	2:Cp:47:VAL:HG22	1.36	1.06
2:Cb:44:PRO:HB2	2:Cb:47:VAL:HG22	1.36	1.06
2:CA:44:PRO:HB2	2:CA:47:VAL:HG22	1.36	1.05
2:CV:44:PRO:HB2	2:CV:47:VAL:HG22	1.36	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:44:PRO:HB2	2:CI:47:VAL:HG22	1.36	1.05
2:CQ:44:PRO:HB2	2:CQ:47:VAL:HG22	1.36	1.05
2:Cm:44:PRO:HB2	2:Cm:47:VAL:HG22	1.36	1.05
2:CW:44:PRO:HB2	2:CW:47:VAL:HG22	1.36	1.05
2:Co:44:PRO:HB2	2:Co:47:VAL:HG22	1.36	1.05
2:CC:44:PRO:HB2	2:CC:47:VAL:HG22	1.36	1.04
2:CO:44:PRO:HB2	2:CO:47:VAL:HG22	1.36	1.04
2:CT:44:PRO:HB2	2:CT:47:VAL:HG22	1.36	1.04
3:DL:11:SER:HA	3:DM:6:VAL:HG23	1.40	1.04
3:DV:11:SER:HA	3:DW:6:VAL:HG23	1.40	1.04
3:DG:11:SER:HA	3:DH:6:VAL:HG23	1.40	1.04
3:DP:11:SER:HA	3:DQ:6:VAL:HG23	1.40	1.04
3:DI:11:SER:HA	3:Dm:6:VAL:HG23	1.40	1.04
3:Do:6:VAL:HG23	3:Ds:11:SER:HA	1.40	1.04
3:Dq:11:SER:HA	3:Dr:6:VAL:HG23	1.40	1.04
3:DC:11:SER:HA	3:DD:6:VAL:HG23	1.40	1.04
3:DD:11:SER:HA	3:DE:6:VAL:HG23	1.40	1.04
3:DK:11:SER:HA	3:DL:6:VAL:HG23	1.40	1.04
3:Dm:11:SER:HA	3:Dn:6:VAL:HG23	1.40	1.04
2:CK:44:PRO:HB2	2:CK:47:VAL:HG22	1.36	1.04
3:DA:6:VAL:HG23	3:DE:11:SER:HA	1.40	1.04
3:DB:11:SER:HA	3:DC:6:VAL:HG23	1.40	1.04
3:DC:42:ASN:ND2	3:DC:44:ILE:HG22	1.73	1.04
3:DH:11:SER:HA	3:DI:6:VAL:HG23	1.40	1.04
3:DL:42:ASN:ND2	3:DL:44:ILE:HG22	1.73	1.04
3:EE:42:ASN:ND2	3:EE:44:ILE:HG22	1.73	1.04
2:Ca:44:PRO:HB2	2:Ca:47:VAL:HG22	1.36	1.03
3:D6:42:ASN:ND2	3:D6:44:ILE:HG22	1.73	1.03
3:D7:42:ASN:ND2	3:D7:44:ILE:HG22	1.73	1.03
3:D8:42:ASN:ND2	3:D8:44:ILE:HG22	1.73	1.03
3:DK:6:VAL:HG23	3:DO:11:SER:HA	1.40	1.03
3:DM:42:ASN:ND2	3:DM:44:ILE:HG22	1.73	1.03
3:DP:6:VAL:HG23	3:DT:11:SER:HA	1.40	1.03
3:DR:42:ASN:ND2	3:DR:44:ILE:HG22	1.73	1.03
3:DS:42:ASN:ND2	3:DS:44:ILE:HG22	1.73	1.03
3:DX:42:ASN:ND2	3:DX:44:ILE:HG22	1.73	1.03
3:Db:42:ASN:ND2	3:Db:44:ILE:HG22	1.73	1.03
3:Dh:42:ASN:ND2	3:Dh:44:ILE:HG22	1.73	1.03
3:Dj:11:SER:HA	3:Dk:6:VAL:HG23	1.40	1.03
3:Dn:42:ASN:ND2	3:Dn:44:ILE:HG22	1.73	1.03
3:Dp:42:ASN:ND2	3:Dp:44:ILE:HG22	1.73	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EA:42:ASN:ND2	3:EA:44:ILE:HG22	1.73	1.03
3:D4:42:ASN:ND2	3:D4:44:ILE:HG22	1.73	1.03
3:DD:42:ASN:ND2	3:DD:44:ILE:HG22	1.73	1.03
3:DF:42:ASN:ND2	3:DF:44:ILE:HG22	1.73	1.03
3:DN:11:SER:HA	3:DO:6:VAL:HG23	1.40	1.03
3:DU:42:ASN:ND2	3:DU:44:ILE:HG22	1.73	1.03
3:Da:42:ASN:ND2	3:Da:44:ILE:HG22	1.73	1.03
3:Di:42:ASN:ND2	3:Di:44:ILE:HG22	1.73	1.03
3:EB:42:ASN:ND2	3:EB:44:ILE:HG22	1.73	1.03
3:D3:11:SER:HA	3:DZ:6:VAL:HG23	1.40	1.03
3:DA:42:ASN:ND2	3:DA:44:ILE:HG22	1.73	1.03
3:DK:42:ASN:ND2	3:DK:44:ILE:HG22	1.73	1.03
3:DQ:11:SER:HA	3:DR:6:VAL:HG23	1.40	1.03
3:DW:11:SER:HA	3:DX:6:VAL:HG23	1.40	1.03
3:Da:11:SER:HA	3:Db:6:VAL:HG23	1.40	1.03
3:Db:11:SER:HA	3:Dc:6:VAL:HG23	1.40	1.03
3:De:11:SER:HA	3:Df:6:VAL:HG23	1.40	1.03
3:Do:42:ASN:ND2	3:Do:44:ILE:HG22	1.73	1.03
3:D5:42:ASN:ND2	3:D5:44:ILE:HG22	1.73	1.03
3:DH:42:ASN:ND2	3:DH:44:ILE:HG22	1.73	1.03
3:DI:11:SER:HA	3:DJ:6:VAL:HG23	1.40	1.03
3:DT:42:ASN:ND2	3:DT:44:ILE:HG22	1.73	1.03
3:DW:42:ASN:ND2	3:DW:44:ILE:HG22	1.73	1.03
3:Dj:42:ASN:ND2	3:Dj:44:ILE:HG22	1.73	1.03
3:Dr:42:ASN:ND2	3:Dr:44:ILE:HG22	1.73	1.03
3:D4:11:SER:HA	3:D5:6:VAL:HG23	1.40	1.03
3:DB:42:ASN:ND2	3:DB:44:ILE:HG22	1.73	1.03
3:DF:11:SER:HA	3:DG:6:VAL:HG23	1.40	1.03
3:DP:42:ASN:ND2	3:DP:44:ILE:HG22	1.73	1.03
3:DU:11:SER:HA	3:DV:6:VAL:HG23	1.40	1.03
3:DY:42:ASN:ND2	3:DY:44:ILE:HG22	1.73	1.03
3:Dp:11:SER:HA	3:Dq:6:VAL:HG23	1.40	1.03
2:CH:44:PRO:HB2	2:CH:47:VAL:HG22	1.36	1.02
2:CL:44:PRO:HB2	2:CL:47:VAL:HG22	1.36	1.02
2:Cr:44:PRO:HB2	2:Cr:47:VAL:HG22	1.36	1.02
3:D9:11:SER:HA	3:Da:6:VAL:HG23	1.40	1.02
3:DO:42:ASN:ND2	3:DO:44:ILE:HG22	1.73	1.02
3:DV:42:ASN:ND2	3:DV:44:ILE:HG22	1.73	1.02
3:De:42:ASN:ND2	3:De:44:ILE:HG22	1.73	1.02
3:ED:11:SER:HA	3:EE:6:VAL:HG23	1.40	1.02
2:Cj:44:PRO:HB2	2:Cj:47:VAL:HG22	1.36	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:11:SER:HA	3:D3:6:VAL:HG23	1.40	1.02
3:D2:42:ASN:ND2	3:D2:44:ILE:HG22	1.73	1.02
3:DS:11:SER:HA	3:DT:6:VAL:HG23	1.40	1.02
3:Dc:11:SER:HA	3:Dd:6:VAL:HG23	1.40	1.02
3:Dg:42:ASN:ND2	3:Dg:44:ILE:HG22	1.73	1.02
3:DJ:42:ASN:ND2	3:DJ:44:ILE:HG22	1.73	1.02
3:DN:42:ASN:ND2	3:DN:44:ILE:HG22	1.73	1.02
3:Df:42:ASN:ND2	3:Df:44:ILE:HG22	1.73	1.02
3:Dh:11:SER:HA	3:Di:6:VAL:HG23	1.40	1.02
3:Dj:6:VAL:HG23	3:Dn:11:SER:HA	1.40	1.02
3:Dk:42:ASN:ND2	3:Dk:44:ILE:HG22	1.73	1.02
3:Dl:42:ASN:ND2	3:Dl:44:ILE:HG22	1.73	1.02
3:Dq:42:ASN:ND2	3:Dq:44:ILE:HG22	1.73	1.02
3:EC:42:ASN:ND2	3:EC:44:ILE:HG22	1.73	1.02
3:ED:42:ASN:ND2	3:ED:44:ILE:HG22	1.73	1.02
3:D0:42:ASN:ND2	3:D0:44:ILE:HG22	1.73	1.02
3:D5:11:SER:HA	3:D6:6:VAL:HG23	1.40	1.02
3:DG:42:ASN:ND2	3:DG:44:ILE:HG22	1.73	1.02
3:DU:6:VAL:HG23	3:DY:11:SER:HA	1.40	1.02
3:Dr:11:SER:HA	3:Ds:6:VAL:HG23	1.40	1.02
3:Ds:42:ASN:ND2	3:Ds:44:ILE:HG22	1.73	1.02
3:EA:6:VAL:HG23	3:EE:11:SER:HA	1.40	1.02
3:EC:11:SER:HA	3:ED:6:VAL:HG23	1.40	1.02
3:D1:42:ASN:ND2	3:D1:44:ILE:HG22	1.73	1.02
3:D4:6:VAL:HG23	3:D8:11:SER:HA	1.40	1.02
3:DE:42:ASN:ND2	3:DE:44:ILE:HG22	1.73	1.02
3:DM:11:SER:HA	3:DN:6:VAL:HG23	1.40	1.02
3:Dc:42:ASN:ND2	3:Dc:44:ILE:HG22	1.73	1.02
3:Dd:42:ASN:ND2	3:Dd:44:ILE:HG22	1.73	1.02
3:Do:11:SER:HA	3:Dp:6:VAL:HG23	1.40	1.01
3:D0:11:SER:HA	3:D1:6:VAL:HG23	1.40	1.01
3:D9:42:ASN:ND2	3:D9:44:ILE:HG22	1.73	1.01
3:DQ:42:ASN:ND2	3:DQ:44:ILE:HG22	1.73	1.01
3:DZ:42:ASN:ND2	3:DZ:44:ILE:HG22	1.73	1.01
3:D3:42:ASN:ND2	3:D3:44:ILE:HG22	1.73	1.01
3:D9:6:VAL:HG23	3:Dd:11:SER:HA	1.40	1.01
3:Df:11:SER:HA	3:Dg:6:VAL:HG23	1.40	1.01
3:DA:11:SER:HA	3:DB:6:VAL:HG23	1.40	1.01
3:DI:42:ASN:ND2	3:DI:44:ILE:HG22	1.73	1.01
3:EB:11:SER:HA	3:EC:6:VAL:HG23	1.40	1.01
1:AU:121:LEU:HD11	1:AV:206:GLY:HA3	1.43	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:121:LEU:HD11	1:BI:206:GLY:HA3	1.43	1.01
1:AD:121:LEU:HD11	1:AE:206:GLY:HA3	1.43	1.00
1:Ad:121:LEU:HD11	1:Ae:206:GLY:HA3	1.43	1.00
1:BA:121:LEU:HD11	1:BB:206:GLY:HA3	1.43	1.00
1:BE:121:LEU:HD11	1:BF:206:GLY:HA3	1.43	1.00
3:D1:11:SER:HA	3:D2:6:VAL:HG23	1.40	1.00
3:Dg:11:SER:HA	3:Dh:6:VAL:HG23	1.40	1.00
3:Dm:42:ASN:ND2	3:Dn:44:ILE:HG22	1.73	1.00
1:AF:121:LEU:HD11	1:AG:206:GLY:HA3	1.43	1.00
1:Ai:121:LEU:HD11	1:Aj:206:GLY:HA3	1.43	1.00
1:AM:121:LEU:HD11	1:AN:206:GLY:HA3	1.43	1.00
1:AW:121:LEU:HD11	1:AX:206:GLY:HA3	1.43	1.00
1:Aa:121:LEU:HD11	1:Ab:206:GLY:HA3	1.43	1.00
1:Ak:121:LEU:HD11	1:Al:206:GLY:HA3	1.43	1.00
3:Dk:11:SER:HA	3:DL:6:VAL:HG23	1.40	1.00
3:Dn:116:THR:HG23	3:Dn:191:LEU:HD21	1.44	1.00
3:Ds:116:THR:HG23	3:Ds:191:LEU:HD21	1.44	1.00
3:D6:11:SER:HA	3:D7:6:VAL:HG23	1.40	1.00
3:DF:116:THR:HG23	3:DF:191:LEU:HD21	1.44	1.00
3:DL:116:THR:HG23	3:DL:191:LEU:HD21	1.44	1.00
3:DR:11:SER:HA	3:DS:6:VAL:HG23	1.40	1.00
3:DX:116:THR:HG23	3:DX:191:LEU:HD21	1.44	1.00
3:D3:116:THR:HG23	3:D3:191:LEU:HD21	1.44	1.00
3:DI:116:THR:HG23	3:DI:191:LEU:HD21	1.44	1.00
3:DR:116:THR:HG23	3:DR:191:LEU:HD21	1.44	1.00
3:DY:116:THR:HG23	3:DY:191:LEU:HD21	1.44	1.00
1:AQ:121:LEU:HD11	1:AR:206:GLY:HA3	1.44	1.00
3:D1:116:THR:HG23	3:D1:191:LEU:HD21	1.44	1.00
3:DN:116:THR:HG23	3:DN:191:LEU:HD21	1.44	1.00
3:Db:116:THR:HG23	3:Db:191:LEU:HD21	1.44	1.00
1:AK:112:PRO:HD2	3:DL:220:VAL:HG11	1.44	0.99
1:AP:206:GLY:HA3	1:AS:121:LEU:HD11	1.43	0.99
1:AT:206:GLY:HA3	1:AX:121:LEU:HD11	1.43	0.99
1:Ah:112:PRO:HD2	3:Dk:220:VAL:HG11	1.44	0.99
1:Ai:112:PRO:HD2	3:DL:220:VAL:HG11	1.44	0.99
1:Ao:112:PRO:HD2	3:DT:220:VAL:HG11	1.44	0.99
1:BE:112:PRO:HD2	3:EB:220:VAL:HG11	1.44	0.99
3:D0:116:THR:HG23	3:D0:191:LEU:HD21	1.44	0.99
3:D8:116:THR:HG23	3:D8:191:LEU:HD21	1.44	0.99
3:DJ:116:THR:HG23	3:DJ:191:LEU:HD21	1.44	0.99
3:DK:116:THR:HG23	3:DK:191:LEU:HD21	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:116:THR:HG23	3:DL:191:LEU:HD21	1.44	0.99
3:Dc:116:THR:HG23	3:Dc:191:LEU:HD21	1.44	0.99
1:AO:112:PRO:HD2	3:DK:220:VAL:HG11	1.44	0.99
3:D4:116:THR:HG23	3:D4:191:LEU:HD21	1.44	0.99
3:De:6:VAL:HG23	3:Di:11:SER:HA	1.40	0.99
3:Dp:116:THR:HG23	3:Dp:191:LEU:HD21	1.44	0.99
3:Dr:116:THR:HG23	3:Dr:191:LEU:HD21	1.44	0.99
3:EA:116:THR:HG23	3:EA:191:LEU:HD21	1.44	0.99
1:A4:112:PRO:HD2	3:D6:220:VAL:HG11	1.44	0.99
1:A8:112:PRO:HD2	3:Da:220:VAL:HG11	1.44	0.99
1:AH:121:LEU:HD11	1:AI:206:GLY:HA3	1.43	0.99
1:AV:112:PRO:HD2	3:DX:220:VAL:HG11	1.44	0.99
3:D7:116:THR:HG23	3:D7:191:LEU:HD21	1.44	0.99
1:A4:121:LEU:HD11	1:A5:206:GLY:HA3	1.43	0.99
1:AB:112:PRO:HD2	3:DC:220:VAL:HG11	1.44	0.99
1:AS:206:GLY:HA3	1:Ao:121:LEU:HD11	1.43	0.99
1:AI:112:PRO:HD2	3:Dj:220:VAL:HG11	1.45	0.99
1:BB:112:PRO:HD2	3:Dr:220:VAL:HG11	1.44	0.99
3:D0:6:VAL:HG23	3:DZ:11:SER:HA	1.40	0.99
3:D6:116:THR:HG23	3:D6:191:LEU:HD21	1.44	0.99
3:Df:116:THR:HG23	3:Df:191:LEU:HD21	1.44	0.99
1:AK:206:GLY:HA3	1:AO:121:LEU:HD11	1.43	0.99
1:AP:121:LEU:HD11	1:AQ:206:GLY:HA3	1.43	0.99
3:DM:116:THR:HG23	3:DM:191:LEU:HD21	1.44	0.99
3:DP:116:THR:HG23	3:DP:191:LEU:HD21	1.44	0.99
1:A1:121:LEU:HD11	1:A2:206:GLY:HA3	1.43	0.99
1:Ac:206:GLY:HA3	1:Ag:121:LEU:HD11	1.43	0.99
3:EA:11:SER:HA	3:EB:6:VAL:HG23	1.40	0.99
1:A2:112:PRO:HD2	3:DZ:220:VAL:HG11	1.44	0.99
1:A3:121:LEU:HD11	1:A4:206:GLY:HA3	1.43	0.99
1:AA:206:GLY:HA3	1:AE:121:LEU:HD11	1.43	0.99
1:AS:112:PRO:HD2	3:DP:220:VAL:HG11	1.44	0.99
1:BI:112:PRO:HD2	3:EA:220:VAL:HG11	1.44	0.99
3:D2:116:THR:HG23	3:D2:191:LEU:HD21	1.44	0.99
3:DA:116:THR:HG23	3:DA:191:LEU:HD21	1.44	0.99
1:AL:112:PRO:HD2	3:DM:220:VAL:HG11	1.44	0.99
1:AU:112:PRO:HD2	3:DW:220:VAL:HG11	1.44	0.99
1:AV:121:LEU:HD11	1:AW:206:GLY:HA3	1.43	0.99
1:AY:121:LEU:HD11	1:AZ:206:GLY:HA3	1.43	0.99
3:EB:116:THR:HG23	3:EB:191:LEU:HD21	1.44	0.99
1:A0:112:PRO:HD2	3:D2:220:VAL:HG11	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:112:PRO:HD2	3:DA:220:VAL:HG11	1.44	0.99
1:AW:112:PRO:HD2	3:DY:220:VAL:HG11	1.44	0.99
3:Dd:116:THR:HG23	3:Dd:191:LEU:HD21	1.44	0.99
1:AB:121:LEU:HD11	1:AC:206:GLY:HA3	1.43	0.99
1:AH:112:PRO:HD2	3:DI:220:VAL:HG11	1.44	0.99
1:AI:112:PRO:HD2	3:DJ:220:VAL:HG11	1.44	0.99
1:AN:112:PRO:HD2	3:DO:220:VAL:HG11	1.44	0.99
1:Ab:112:PRO:HD2	3:D9:220:VAL:HG11	1.44	0.99
1:BE:206:GLY:HA3	1:BI:121:LEU:HD11	1.43	0.99
1:AM:112:PRO:HD2	3:DN:220:VAL:HG11	1.44	0.98
1:Ad:112:PRO:HD2	3:Dg:220:VAL:HG11	1.44	0.98
1:Ah:121:LEU:HD11	1:AI:206:GLY:HA3	1.43	0.98
3:DD:116:THR:HG23	3:DD:191:LEU:HD21	1.44	0.98
3:DZ:116:THR:HG23	3:DZ:191:LEU:HD21	1.44	0.98
1:BD:112:PRO:HD2	3:Do:220:VAL:HG11	1.44	0.98
3:DB:116:THR:HG23	3:DB:191:LEU:HD21	1.44	0.98
3:DH:116:THR:HG23	3:DH:191:LEU:HD21	1.44	0.98
3:DQ:116:THR:HG23	3:DQ:191:LEU:HD21	1.44	0.98
1:AC:121:LEU:HD11	1:AD:206:GLY:HA3	1.44	0.98
1:AF:206:GLY:HA3	1:AJ:121:LEU:HD11	1.43	0.98
1:AG:112:PRO:HD2	3:DH:220:VAL:HG11	1.44	0.98
1:AY:112:PRO:HD2	3:D0:220:VAL:HG11	1.44	0.98
3:D5:116:THR:HG23	3:D5:191:LEU:HD21	1.44	0.98
3:DI:191:LEU:HD22	3:DI:192:THR:H	1.29	0.98
3:DL:191:LEU:HD22	3:DL:192:THR:H	1.28	0.98
3:Da:116:THR:HG23	3:Da:191:LEU:HD21	1.44	0.98
3:De:116:THR:HG23	3:De:191:LEU:HD21	1.44	0.98
3:Dg:116:THR:HG23	3:Dg:191:LEU:HD21	1.44	0.98
1:Ac:112:PRO:HD2	3:Df:220:VAL:HG11	1.44	0.98
1:Ak:112:PRO:HD2	3:Dn:220:VAL:HG11	1.44	0.98
3:D4:191:LEU:HD22	3:D4:192:THR:H	1.29	0.98
3:D7:11:SER:HA	3:D8:6:VAL:HG23	1.40	0.98
3:DF:6:VAL:HG23	3:DJ:11:SER:HA	1.40	0.98
3:Da:191:LEU:HD22	3:Da:192:THR:H	1.29	0.98
3:Dn:191:LEU:HD22	3:Dn:192:THR:H	1.29	0.98
3:Do:116:THR:HG23	3:Do:191:LEU:HD21	1.44	0.98
1:A8:206:GLY:HA3	1:Ab:121:LEU:HD11	1.43	0.98
1:AR:112:PRO:HD2	3:DS:220:VAL:HG11	1.44	0.98
3:DX:11:SER:HA	3:DY:6:VAL:HG23	1.40	0.98
3:ED:191:LEU:HD22	3:ED:192:THR:H	1.29	0.98
1:A7:112:PRO:HD2	3:D4:220:VAL:HG11	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:112:PRO:HD2	3:DG:220:VAL:HG11	1.44	0.98
1:Am:121:LEU:HD11	1:BA:206:GLY:HA3	1.43	0.98
3:Di:116:THR:HG23	3:Di:191:LEU:HD21	1.44	0.98
3:Dk:116:THR:HG23	3:Dk:191:LEU:HD21	1.44	0.98
3:Dm:116:THR:HG23	3:Dm:191:LEU:HD21	1.44	0.98
1:A8:121:LEU:HD11	1:A9:206:GLY:HA3	1.43	0.98
1:An:112:PRO:HD2	3:Dc:220:VAL:HG11	1.44	0.98
1:BH:112:PRO:HD2	3:EE:220:VAL:HG11	1.44	0.98
3:DE:191:LEU:HD22	3:DE:192:THR:H	1.28	0.98
3:DJ:191:LEU:HD22	3:DJ:192:THR:H	1.29	0.98
3:DM:191:LEU:HD22	3:DM:192:THR:H	1.29	0.98
3:Dc:191:LEU:HD22	3:Dc:192:THR:H	1.29	0.98
3:Dk:191:LEU:HD22	3:Dk:192:THR:H	1.28	0.98
1:A9:112:PRO:HD2	3:Db:220:VAL:HG11	1.44	0.98
1:AR:121:LEU:HD11	1:Ao:206:GLY:HA3	1.43	0.98
3:DW:116:THR:HG23	3:DW:191:LEU:HD21	1.44	0.98
1:Ae:112:PRO:HD2	3:Dh:220:VAL:HG11	1.44	0.98
3:D5:191:LEU:HD22	3:D5:192:THR:H	1.29	0.98
3:DZ:191:LEU:HD22	3:DZ:192:THR:H	1.29	0.98
3:Dj:116:THR:HG23	3:Dj:191:LEU:HD21	1.44	0.98
1:AA:121:LEU:HD11	1:AB:206:GLY:HA3	1.43	0.98
1:AN:121:LEU:HD11	1:AO:206:GLY:HA3	1.43	0.98
1:BA:112:PRO:HD2	3:Dq:220:VAL:HG11	1.44	0.98
3:DE:116:THR:HG23	3:DE:191:LEU:HD21	1.44	0.98
1:A6:112:PRO:HD2	3:D8:220:VAL:HG11	1.44	0.97
1:A5:112:PRO:HD2	3:D7:220:VAL:HG11	1.44	0.97
1:A6:187:LEU:HD22	1:A6:188:PRO:HD2	1.47	0.97
1:Ae:121:LEU:HD11	1:Af:206:GLY:HA3	1.43	0.97
1:Af:112:PRO:HD2	3:Di:220:VAL:HG11	1.44	0.97
1:Am:206:GLY:HA3	1:BD:121:LEU:HD11	1.43	0.97
3:DT:191:LEU:HD22	3:DT:192:THR:H	1.29	0.97
1:AJ:112:PRO:HD2	3:DF:220:VAL:HG11	1.44	0.97
1:AN:187:LEU:HD22	1:AN:188:PRO:HD2	1.47	0.97
1:AZ:187:LEU:HD22	1:AZ:188:PRO:HD2	1.47	0.97
1:Ah:206:GLY:HA3	1:Al:121:LEU:HD11	1.43	0.97
1:Aj:112:PRO:HD2	3:Dm:220:VAL:HG11	1.44	0.97
1:BH:187:LEU:HD22	1:BH:188:PRO:HD2	1.47	0.97
3:D0:191:LEU:HD22	3:D0:192:THR:H	1.28	0.97
3:DU:116:THR:HG23	3:DU:191:LEU:HD21	1.44	0.97
1:A2:121:LEU:HD11	1:AY:206:GLY:HA3	1.43	0.97
1:A3:206:GLY:HA3	1:A7:121:LEU:HD11	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:187:LEU:HD22	1:Ab:188:PRO:HD2	1.47	0.97
1:BG:121:LEU:HD11	1:BH:206:GLY:HA3	1.43	0.97
3:Df:191:LEU:HD22	3:Df:192:THR:H	1.29	0.97
1:AA:112:PRO:HD2	3:DB:220:VAL:HG11	1.44	0.97
1:AL:121:LEU:HD11	1:AM:206:GLY:HA3	1.43	0.97
1:AU:187:LEU:HD22	1:AU:188:PRO:HD2	1.47	0.97
1:BC:112:PRO:HD2	3:Ds:220:VAL:HG11	1.44	0.97
1:BC:121:LEU:HD11	1:BD:206:GLY:HA3	1.43	0.97
3:DA:191:LEU:HD22	3:DA:192:THR:H	1.29	0.97
3:DS:191:LEU:HD22	3:DS:192:THR:H	1.28	0.97
3:DV:116:THR:HG23	3:DV:191:LEU:HD21	1.44	0.97
1:A5:187:LEU:HD22	1:A5:188:PRO:HD2	1.47	0.97
3:DH:191:LEU:HD22	3:DH:192:THR:H	1.29	0.97
1:A0:206:GLY:HA3	1:AZ:121:LEU:HD11	1.44	0.97
1:Aj:187:LEU:HD22	1:Aj:188:PRO:HD2	1.47	0.97
1:BB:121:LEU:HD11	1:BC:206:GLY:HA3	1.43	0.97
3:EE:191:LEU:HD22	3:EE:192:THR:H	1.29	0.97
1:A4:187:LEU:HD22	1:A4:188:PRO:HD2	1.47	0.97
1:A6:121:LEU:HD11	1:A7:206:GLY:HA3	1.43	0.97
1:AC:112:PRO:HD2	3:DD:220:VAL:HG11	1.44	0.97
1:AQ:187:LEU:HD22	1:AQ:188:PRO:HD2	1.46	0.97
1:Ag:187:LEU:HD22	1:Ag:188:PRO:HD2	1.46	0.97
1:BF:121:LEU:HD11	1:BG:206:GLY:HA3	1.43	0.97
3:DC:116:THR:HG23	3:DC:191:LEU:HD21	1.44	0.97
3:DG:116:THR:HG23	3:DG:191:LEU:HD21	1.44	0.97
3:DY:191:LEU:HD22	3:DY:192:THR:H	1.29	0.97
1:A0:187:LEU:HD22	1:A0:188:PRO:HD2	1.47	0.97
1:A9:187:LEU:HD22	1:A9:188:PRO:HD2	1.47	0.97
1:AI:121:LEU:HD11	1:AJ:206:GLY:HA3	1.43	0.97
1:AP:112:PRO:HD2	3:DQ:220:VAL:HG11	1.44	0.97
3:DX:191:LEU:HD22	3:DX:192:THR:H	1.29	0.97
3:Ds:191:LEU:HD22	3:Ds:192:THR:H	1.29	0.97
3:EC:116:THR:HG23	3:EC:191:LEU:HD21	1.44	0.97
1:A5:121:LEU:HD11	1:A6:206:GLY:HA3	1.43	0.97
1:AD:112:PRO:HD2	3:DE:220:VAL:HG11	1.44	0.97
1:AH:187:LEU:HD22	1:AH:188:PRO:HD2	1.47	0.97
1:AK:121:LEU:HD11	1:AL:206:GLY:HA3	1.43	0.97
1:AQ:112:PRO:HD2	3:DR:220:VAL:HG11	1.44	0.97
1:AX:112:PRO:HD2	3:DU:220:VAL:HG11	1.44	0.97
1:AY:187:LEU:HD22	1:AY:188:PRO:HD2	1.46	0.97
1:Aa:206:GLY:HA3	1:An:121:LEU:HD11	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:191:LEU:HD22	3:DB:192:THR:H	1.28	0.97
3:DT:116:THR:HG23	3:DT:191:LEU:HD21	1.44	0.97
3:Dj:191:LEU:HD22	3:Dj:192:THR:H	1.29	0.97
3:Do:191:LEU:HD22	3:Do:192:THR:H	1.29	0.97
1:AD:187:LEU:HD22	1:AD:188:PRO:HD2	1.47	0.96
1:AL:187:LEU:HD22	1:AL:188:PRO:HD2	1.47	0.96
1:AP:187:LEU:HD22	1:AP:188:PRO:HD2	1.47	0.96
3:Dq:116:THR:HG23	3:Dq:191:LEU:HD21	1.44	0.96
3:ED:116:THR:HG23	3:ED:191:LEU:HD21	1.44	0.96
1:A0:121:LEU:HD11	1:A1:206:GLY:HA3	1.43	0.96
1:A3:112:PRO:HD2	3:D5:220:VAL:HG11	1.44	0.96
1:A3:187:LEU:HD22	1:A3:188:PRO:HD2	1.46	0.96
1:AO:187:LEU:HD22	1:AO:188:PRO:HD2	1.47	0.96
1:Aj:121:LEU:HD11	1:Ak:206:GLY:HA3	1.43	0.96
3:D9:116:THR:HG23	3:D9:191:LEU:HD21	1.44	0.96
3:DQ:191:LEU:HD22	3:DQ:192:THR:H	1.29	0.96
3:De:191:LEU:HD22	3:De:192:THR:H	1.29	0.96
1:A9:121:LEU:HD11	1:An:206:GLY:HA3	1.43	0.96
1:AT:112:PRO:HD2	3:DV:220:VAL:HG11	1.44	0.96
1:An:187:LEU:HD22	1:An:188:PRO:HD2	1.47	0.96
3:DO:116:THR:HG23	3:DO:191:LEU:HD21	1.44	0.96
3:Db:191:LEU:HD22	3:Db:192:THR:H	1.29	0.96
1:A2:187:LEU:HD22	1:A2:188:PRO:HD2	1.47	0.96
1:A7:187:LEU:HD22	1:A7:188:PRO:HD2	1.47	0.96
1:A8:187:LEU:HD22	1:A8:188:PRO:HD2	1.47	0.96
1:AE:187:LEU:HD22	1:AE:188:PRO:HD2	1.47	0.96
1:AJ:187:LEU:HD22	1:AJ:188:PRO:HD2	1.46	0.96
1:Ak:187:LEU:HD22	1:Ak:188:PRO:HD2	1.47	0.96
3:D2:191:LEU:HD22	3:D2:192:THR:H	1.29	0.96
3:DN:191:LEU:HD22	3:DN:192:THR:H	1.29	0.96
3:EE:116:THR:HG23	3:EE:191:LEU:HD21	1.44	0.96
1:AG:121:LEU:HD11	1:AH:206:GLY:HA3	1.43	0.96
1:AZ:112:PRO:HD2	3:D1:220:VAL:HG11	1.44	0.96
1:AK:187:LEU:HD22	1:AK:188:PRO:HD2	1.46	0.96
1:BF:187:LEU:HD22	1:BF:188:PRO:HD2	1.46	0.96
3:D1:191:LEU:HD22	3:D1:192:THR:H	1.29	0.96
3:DP:191:LEU:HD22	3:DP:192:THR:H	1.28	0.96
1:Ac:187:LEU:HD22	1:Ac:188:PRO:HD2	1.47	0.96
1:Ae:187:LEU:HD22	1:Ae:188:PRO:HD2	1.47	0.96
3:DS:116:THR:HG23	3:DS:191:LEU:HD21	1.44	0.96
3:Dp:191:LEU:HD22	3:Dp:192:THR:H	1.29	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EA:191:LEU:HD22	3:EA:192:THR:H	1.28	0.96
1:Am:187:LEU:HD22	1:Am:188:PRO:HD2	1.47	0.96
3:D8:191:LEU:HD22	3:D8:192:THR:H	1.29	0.96
3:D9:191:LEU:HD22	3:D9:192:THR:H	1.29	0.96
3:Dh:116:THR:HG23	3:Dh:191:LEU:HD21	1.44	0.96
3:Dh:191:LEU:HD22	3:Dh:192:THR:H	1.28	0.96
1:A1:187:LEU:HD22	1:A1:188:PRO:HD2	1.47	0.96
1:AW:187:LEU:HD22	1:AW:188:PRO:HD2	1.46	0.96
1:Aa:112:PRO:HD2	3:Dd:220:VAL:HG11	1.44	0.96
1:BC:187:LEU:HD22	1:BC:188:PRO:HD2	1.47	0.96
3:EC:191:LEU:HD22	3:EC:192:THR:H	1.29	0.96
3:DK:191:LEU:HD22	3:DK:192:THR:H	1.29	0.95
1:Ac:121:LEU:HD11	1:Ad:206:GLY:HA3	1.43	0.95
1:A1:112:PRO:HD2	3:D3:220:VAL:HG11	1.45	0.95
1:Ag:112:PRO:HD2	3:De:220:VAL:HG11	1.44	0.95
1:Ah:187:LEU:HD22	1:Ah:188:PRO:HD2	1.47	0.95
1:Am:112:PRO:HD2	3:Dp:220:VAL:HG11	1.44	0.95
1:BA:187:LEU:HD22	1:BA:188:PRO:HD2	1.47	0.95
1:Al:187:LEU:HD22	1:Al:188:PRO:HD2	1.47	0.95
1:BD:187:LEU:HD22	1:BD:188:PRO:HD2	1.47	0.95
1:BG:112:PRO:HD2	3:ED:220:VAL:HG11	1.44	0.95
1:BI:187:LEU:HD22	1:BI:188:PRO:HD2	1.47	0.95
3:DO:191:LEU:HD22	3:DO:192:THR:H	1.29	0.95
3:DR:191:LEU:HD22	3:DR:192:THR:H	1.29	0.95
1:Ad:187:LEU:HD22	1:Ad:188:PRO:HD2	1.47	0.95
1:BF:112:PRO:HD2	3:EC:220:VAL:HG11	1.44	0.95
3:Dg:191:LEU:HD22	3:Dg:192:THR:H	1.29	0.95
3:Di:191:LEU:HD22	3:Di:192:THR:H	1.29	0.95
1:Ai:187:LEU:HD22	1:Ai:188:PRO:HD2	1.47	0.95
1:BB:187:LEU:HD22	1:BB:188:PRO:HD2	1.47	0.95
3:D3:191:LEU:HD22	3:D3:192:THR:H	1.29	0.95
3:DC:191:LEU:HD22	3:DC:192:THR:H	1.29	0.95
3:DW:191:LEU:HD22	3:DW:192:THR:H	1.29	0.95
1:AA:187:LEU:HD22	1:AA:188:PRO:HD2	1.47	0.95
1:AI:187:LEU:HD22	1:AI:188:PRO:HD2	1.47	0.95
1:Af:187:LEU:HD22	1:Af:188:PRO:HD2	1.47	0.95
3:D6:191:LEU:HD22	3:D6:192:THR:H	1.29	0.95
3:Dm:191:LEU:HD22	3:Dm:192:THR:H	1.29	0.95
1:AC:187:LEU:HD22	1:AC:188:PRO:HD2	1.47	0.95
1:AF:187:LEU:HD22	1:AF:188:PRO:HD2	1.47	0.95
1:AT:121:LEU:HD11	1:AU:206:GLY:HA3	1.43	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:191:LEU:HD22	3:DU:192:THR:H	1.28	0.95
3:DI:191:LEU:HD22	3:DI:192:THR:H	1.28	0.95
1:Aa:187:LEU:HD22	1:Aa:188:PRO:HD2	1.47	0.94
1:Af:121:LEU:HD11	1:Ag:206:GLY:HA3	1.44	0.94
2:CN:209:VAL:H	2:CN:210:PRO:HD3	1.32	0.94
2:Cn:209:VAL:H	2:Cn:210:PRO:HD3	1.32	0.94
2:Cu:209:VAL:H	2:Cu:210:PRO:HD3	1.32	0.94
1:AR:187:LEU:HD22	1:AR:188:PRO:HD2	1.46	0.94
2:CE:209:VAL:H	2:CE:210:PRO:HD3	1.32	0.94
2:CZ:209:VAL:H	2:CZ:210:PRO:HD3	1.32	0.94
2:C9:209:VAL:H	2:C9:210:PRO:HD3	1.32	0.94
3:DV:191:LEU:HD22	3:DV:192:THR:H	1.29	0.94
1:AX:187:LEU:HD22	1:AX:188:PRO:HD2	1.47	0.94
2:C0:209:VAL:H	2:C0:210:PRO:HD3	1.32	0.94
2:CT:209:VAL:H	2:CT:210:PRO:HD3	1.33	0.94
3:D7:191:LEU:HD22	3:D7:192:THR:H	1.29	0.94
2:CP:209:VAL:H	2:CP:210:PRO:HD3	1.32	0.94
2:CS:209:VAL:H	2:CS:210:PRO:HD3	1.33	0.94
2:CI:209:VAL:H	2:CI:210:PRO:HD3	1.32	0.94
3:De:117:LYS:HB3	3:De:119:LYS:HE3	1.50	0.94
3:Dr:191:LEU:HD22	3:Dr:192:THR:H	1.28	0.94
1:AB:187:LEU:HD22	1:AB:188:PRO:HD2	1.47	0.94
2:C3:209:VAL:H	2:C3:210:PRO:HD3	1.33	0.94
1:AV:187:LEU:HD22	1:AV:188:PRO:HD2	1.47	0.94
2:CB:209:VAL:H	2:CB:210:PRO:HD3	1.33	0.94
2:Cb:209:VAL:H	2:Cb:210:PRO:HD3	1.32	0.94
2:Cx:209:VAL:H	2:Cx:210:PRO:HD3	1.32	0.94
3:D8:117:LYS:HB3	3:D8:119:LYS:HE3	1.50	0.94
3:DF:117:LYS:HB3	3:DF:119:LYS:HE3	1.50	0.94
3:DS:117:LYS:HB3	3:DS:119:LYS:HE3	1.50	0.94
3:DY:117:LYS:HB3	3:DY:119:LYS:HE3	1.50	0.94
3:Dc:117:LYS:HB3	3:Dc:119:LYS:HE3	1.50	0.94
3:Dj:117:LYS:HB3	3:Dj:119:LYS:HE3	1.50	0.94
3:Do:117:LYS:HB3	3:Do:119:LYS:HE3	1.50	0.94
1:AG:187:LEU:HD22	1:AG:188:PRO:HD2	1.47	0.94
1:AT:187:LEU:HD22	1:AT:188:PRO:HD2	1.47	0.94
1:BG:187:LEU:HD22	1:BG:188:PRO:HD2	1.47	0.94
2:Cj:209:VAL:H	2:Cj:210:PRO:HD3	1.32	0.94
3:DP:117:LYS:HB3	3:DP:119:LYS:HE3	1.50	0.94
3:Dq:191:LEU:HD22	3:Dq:192:THR:H	1.29	0.94
3:EE:117:LYS:HB3	3:EE:119:LYS:HE3	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:187:LEU:HD22	1:AS:188:PRO:HD2	1.47	0.94
2:CF:209:VAL:H	2:CF:210:PRO:HD3	1.32	0.94
2:Cd:209:VAL:H	2:Cd:210:PRO:HD3	1.32	0.94
3:D2:117:LYS:HB3	3:D2:119:LYS:HE3	1.50	0.94
3:DJ:117:LYS:HB3	3:DJ:119:LYS:HE3	1.50	0.94
3:Df:117:LYS:HB3	3:Df:119:LYS:HE3	1.50	0.94
1:Ao:187:LEU:HD22	1:Ao:188:PRO:HD2	1.46	0.93
2:CQ:209:VAL:H	2:CQ:210:PRO:HD3	1.32	0.93
3:DF:191:LEU:HD22	3:DF:192:THR:H	1.29	0.93
3:Db:117:LYS:HB3	3:Db:119:LYS:HE3	1.50	0.93
1:BE:187:LEU:HD22	1:BE:188:PRO:HD2	1.46	0.93
2:Cl:209:VAL:H	2:Cl:210:PRO:HD3	1.32	0.93
2:Cr:209:VAL:H	2:Cr:210:PRO:HD3	1.32	0.93
3:DB:117:LYS:HB3	3:DB:119:LYS:HE3	1.50	0.93
3:DG:191:LEU:HD22	3:DG:192:THR:H	1.29	0.93
3:DL:117:LYS:HB3	3:DL:119:LYS:HE3	1.50	0.93
3:DC:117:LYS:HB3	3:DC:119:LYS:HE3	1.50	0.93
3:DX:117:LYS:HB3	3:DX:119:LYS:HE3	1.50	0.93
2:CL:209:VAL:H	2:CL:210:PRO:HD3	1.32	0.93
2:Ch:209:VAL:H	2:Ch:210:PRO:HD3	1.32	0.93
3:D1:117:LYS:HB3	3:D1:119:LYS:HE3	1.50	0.93
3:DG:117:LYS:HB3	3:DG:119:LYS:HE3	1.50	0.93
3:DT:117:LYS:HB3	3:DT:119:LYS:HE3	1.50	0.93
3:EB:191:LEU:HD22	3:EB:192:THR:H	1.28	0.93
2:CC:209:VAL:H	2:CC:210:PRO:HD3	1.32	0.93
2:CD:209:VAL:H	2:CD:210:PRO:HD3	1.32	0.93
3:Dk:117:LYS:HB3	3:Dk:119:LYS:HE3	1.50	0.93
3:Dl:117:LYS:HB3	3:Dl:119:LYS:HE3	1.50	0.93
1:AM:187:LEU:HD22	1:AM:188:PRO:HD2	1.47	0.93
2:C2:209:VAL:H	2:C2:210:PRO:HD3	1.32	0.93
2:CI:209:VAL:H	2:CI:210:PRO:HD3	1.32	0.93
2:Ce:209:VAL:H	2:Ce:210:PRO:HD3	1.33	0.93
2:Cg:209:VAL:H	2:Cg:210:PRO:HD3	1.32	0.93
2:Ck:209:VAL:H	2:Ck:210:PRO:HD3	1.32	0.93
3:DA:117:LYS:HB3	3:DA:119:LYS:HE3	1.50	0.93
3:DM:117:LYS:HB3	3:DM:119:LYS:HE3	1.50	0.93
2:CG:209:VAL:H	2:CG:210:PRO:HD3	1.32	0.93
2:CJ:209:VAL:H	2:CJ:210:PRO:HD3	1.32	0.93
2:Cf:209:VAL:H	2:Cf:210:PRO:HD3	1.32	0.93
3:Dq:117:LYS:HB3	3:Dq:119:LYS:HE3	1.50	0.93
2:C1:209:VAL:H	2:C1:210:PRO:HD3	1.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CU:209:VAL:H	2:CU:210:PRO:HD3	1.32	0.93
2:C5:209:VAL:H	2:C5:210:PRO:HD3	1.32	0.93
3:D4:117:LYS:HB3	3:D4:119:LYS:HE3	1.50	0.93
3:DW:117:LYS:HB3	3:DW:119:LYS:HE3	1.50	0.93
3:Dd:191:LEU:HD22	3:Dd:192:THR:H	1.29	0.93
2:C5:209:VAL:H	2:C5:210:PRO:HD3	1.32	0.93
3:EA:117:LYS:HB3	3:EA:119:LYS:HE3	1.50	0.93
2:CO:209:VAL:H	2:CO:210:PRO:HD3	1.32	0.93
2:CW:209:VAL:H	2:CW:210:PRO:HD3	1.32	0.93
2:Ca:209:VAL:H	2:Ca:210:PRO:HD3	1.32	0.93
1:Ag:88:PHE:CE1	1:Ag:205:GLY:HA3	2.05	0.92
2:Ct:209:VAL:H	2:Ct:210:PRO:HD3	1.32	0.92
1:A0:88:PHE:CE1	1:A0:205:GLY:HA3	2.05	0.92
1:AD:88:PHE:CE1	1:AD:205:GLY:HA3	2.05	0.92
1:AI:88:PHE:CE1	1:AI:205:GLY:HA3	2.05	0.92
1:AK:88:PHE:CE1	1:AK:205:GLY:HA3	2.05	0.92
1:AP:88:PHE:CE1	1:AP:205:GLY:HA3	2.05	0.92
1:Ai:88:PHE:CE1	1:Ai:205:GLY:HA3	2.05	0.92
1:BA:88:PHE:CE1	1:BA:205:GLY:HA3	2.05	0.92
2:C6:209:VAL:H	2:C6:210:PRO:HD3	1.32	0.92
2:Cp:209:VAL:H	2:Cp:210:PRO:HD3	1.32	0.92
3:DD:117:LYS:HB3	3:DD:119:LYS:HE3	1.50	0.92
1:AH:88:PHE:CE1	1:AH:205:GLY:HA3	2.05	0.92
1:AS:88:PHE:CE1	1:AS:205:GLY:HA3	2.05	0.92
2:Cq:209:VAL:H	2:Cq:210:PRO:HD3	1.32	0.92
3:DD:191:LEU:HD22	3:DD:192:THR:H	1.28	0.92
1:AF:88:PHE:CE1	1:AF:205:GLY:HA3	2.05	0.92
1:AM:88:PHE:CE1	1:AM:205:GLY:HA3	2.05	0.92
1:BB:88:PHE:CE1	1:BB:205:GLY:HA3	2.05	0.92
2:CA:209:VAL:H	2:CA:210:PRO:HD3	1.32	0.92
2:CK:209:VAL:H	2:CK:210:PRO:HD3	1.32	0.92
3:D7:117:LYS:HB3	3:D7:119:LYS:HE3	1.50	0.92
1:A1:88:PHE:CE1	1:A1:205:GLY:HA3	2.05	0.92
1:AQ:88:PHE:CE1	1:AQ:205:GLY:HA3	2.05	0.92
1:BC:88:PHE:CE1	1:BC:205:GLY:HA3	2.05	0.92
3:Da:117:LYS:HB3	3:Da:119:LYS:HE3	1.50	0.92
3:Ds:117:LYS:HB3	3:Ds:119:LYS:HE3	1.50	0.92
3:ED:117:LYS:HB3	3:ED:119:LYS:HE3	1.50	0.92
1:AE:88:PHE:CE1	1:AE:205:GLY:HA3	2.05	0.92
1:AW:88:PHE:CE1	1:AW:205:GLY:HA3	2.05	0.92
1:Ac:88:PHE:CE1	1:Ac:205:GLY:HA3	2.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:An:88:PHE:CE1	1:An:205:GLY:HA3	2.05	0.92
1:BE:88:PHE:CE1	1:BE:205:GLY:HA3	2.05	0.92
2:CH:209:VAL:H	2:CH:210:PRO:HD3	1.32	0.92
3:DN:117:LYS:HB3	3:DN:119:LYS:HE3	1.50	0.92
1:A5:88:PHE:CE1	1:A5:205:GLY:HA3	2.05	0.92
1:A6:88:PHE:CE1	1:A6:205:GLY:HA3	2.05	0.92
1:A9:88:PHE:CE1	1:A9:205:GLY:HA3	2.05	0.92
1:AC:88:PHE:CE1	1:AC:205:GLY:HA3	2.05	0.92
1:AL:88:PHE:CE1	1:AL:205:GLY:HA3	2.05	0.92
1:BH:88:PHE:CE1	1:BH:205:GLY:HA3	2.05	0.92
2:C4:209:VAL:H	2:C4:210:PRO:HD3	1.32	0.92
2:C7:209:VAL:H	2:C7:210:PRO:HD3	1.32	0.92
2:CV:209:VAL:H	2:CV:210:PRO:HD3	1.32	0.92
2:Cv:209:VAL:H	2:Cv:210:PRO:HD3	1.32	0.92
3:Di:117:LYS:HB3	3:Di:119:LYS:HE3	1.50	0.92
1:Aa:88:PHE:CE1	1:Aa:205:GLY:HA3	2.05	0.92
1:Ak:88:PHE:CE1	1:Ak:205:GLY:HA3	2.05	0.92
3:Dp:117:LYS:HB3	3:Dp:119:LYS:HE3	1.50	0.92
1:A3:88:PHE:CE1	1:A3:205:GLY:HA3	2.05	0.92
3:DI:117:LYS:HB3	3:DI:119:LYS:HE3	1.50	0.92
3:EB:117:LYS:HB3	3:EB:119:LYS:HE3	1.50	0.92
3:ED:103:SER:HB3	3:ED:159:PRO:HA	1.52	0.92
1:AI:30:VAL:HG13	1:AI:218:MET:HE3	1.52	0.92
1:AV:88:PHE:CE1	1:AV:205:GLY:HA3	2.05	0.92
1:Ah:88:PHE:CE1	1:Ah:205:GLY:HA3	2.05	0.92
1:Aj:88:PHE:CE1	1:Aj:205:GLY:HA3	2.05	0.92
1:Am:88:PHE:CE1	1:Am:205:GLY:HA3	2.05	0.92
3:D9:103:SER:HB3	3:D9:159:PRO:HA	1.52	0.92
3:DI:103:SER:HB3	3:DI:159:PRO:HA	1.52	0.92
3:Dr:117:LYS:HB3	3:Dr:119:LYS:HE3	1.50	0.92
3:EB:103:SER:HB3	3:EB:159:PRO:HA	1.52	0.92
1:AA:88:PHE:CE1	1:AA:205:GLY:HA3	2.05	0.91
1:AE:30:VAL:HG13	1:AE:218:MET:HE3	1.53	0.91
1:AR:30:VAL:HG13	1:AR:218:MET:HE3	1.53	0.91
1:Ab:88:PHE:CE1	1:Ab:205:GLY:HA3	2.05	0.91
1:Ad:88:PHE:CE1	1:Ad:205:GLY:HA3	2.05	0.91
2:Cc:209:VAL:H	2:Cc:210:PRO:HD3	1.32	0.91
3:DR:103:SER:HB3	3:DR:159:PRO:HA	1.52	0.91
3:DV:103:SER:HB3	3:DV:159:PRO:HA	1.52	0.91
3:DW:103:SER:HB3	3:DW:159:PRO:HA	1.53	0.91
3:EE:103:SER:HB3	3:EE:159:PRO:HA	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:30:VAL:HG13	1:AM:218:MET:HE3	1.53	0.91
1:AQ:30:VAL:HG13	1:AQ:218:MET:HE3	1.53	0.91
1:AU:88:PHE:CE1	1:AU:205:GLY:HA3	2.05	0.91
1:Aa:30:VAL:HG13	1:Aa:218:MET:HE3	1.53	0.91
1:Al:30:VAL:HG13	1:Al:218:MET:HE3	1.53	0.91
1:BD:88:PHE:CE1	1:BD:205:GLY:HA3	2.05	0.91
1:BI:88:PHE:CE1	1:BI:205:GLY:HA3	2.05	0.91
3:D2:103:SER:HB3	3:D2:159:PRO:HA	1.52	0.91
3:D3:103:SER:HB3	3:D3:159:PRO:HA	1.52	0.91
3:D3:117:LYS:HB3	3:D3:119:LYS:HE3	1.50	0.91
3:D4:103:SER:HB3	3:D4:159:PRO:HA	1.53	0.91
3:DD:103:SER:HB3	3:DD:159:PRO:HA	1.52	0.91
3:DG:103:SER:HB3	3:DG:159:PRO:HA	1.52	0.91
3:DK:117:LYS:HB3	3:DK:119:LYS:HE3	1.50	0.91
3:DO:103:SER:HB3	3:DO:159:PRO:HA	1.52	0.91
3:DO:117:LYS:HB3	3:DO:119:LYS:HE3	1.50	0.91
3:DU:117:LYS:HB3	3:DU:119:LYS:HE3	1.50	0.91
3:Dh:103:SER:HB3	3:Dh:159:PRO:HA	1.52	0.91
1:AB:88:PHE:CE1	1:AB:205:GLY:HA3	2.05	0.91
1:AJ:88:PHE:CE1	1:AJ:205:GLY:HA3	2.05	0.91
1:AN:30:VAL:HG13	1:AN:218:MET:HE3	1.53	0.91
1:AZ:88:PHE:CE1	1:AZ:205:GLY:HA3	2.05	0.91
1:Ad:30:VAL:HG13	1:Ad:218:MET:HE3	1.53	0.91
1:Ai:30:VAL:HG13	1:Ai:218:MET:HE3	1.53	0.91
2:CX:209:VAL:H	2:CX:210:PRO:HD3	1.32	0.91
2:CY:209:VAL:H	2:CY:210:PRO:HD3	1.32	0.91
2:Cw:209:VAL:H	2:Cw:210:PRO:HD3	1.33	0.91
3:D6:103:SER:HB3	3:D6:159:PRO:HA	1.52	0.91
3:DV:117:LYS:HB3	3:DV:119:LYS:HE3	1.50	0.91
3:Dh:117:LYS:HB3	3:Dh:119:LYS:HE3	1.50	0.91
3:EA:103:SER:HB3	3:EA:159:PRO:HA	1.52	0.91
1:A7:30:VAL:HG13	1:A7:218:MET:HE3	1.53	0.91
1:AX:88:PHE:CE1	1:AX:205:GLY:HA3	2.05	0.91
1:AY:88:PHE:CE1	1:AY:205:GLY:HA3	2.05	0.91
1:Ak:30:VAL:HG13	1:Ak:218:MET:HE3	1.53	0.91
1:Ao:88:PHE:CE1	1:Ao:205:GLY:HA3	2.05	0.91
1:BF:30:VAL:HG13	1:BF:218:MET:HE3	1.53	0.91
3:DA:103:SER:HB3	3:DA:159:PRO:HA	1.52	0.91
3:DH:103:SER:HB3	3:DH:159:PRO:HA	1.52	0.91
3:Dd:117:LYS:HB3	3:Dd:119:LYS:HE3	1.50	0.91
1:AG:88:PHE:CE1	1:AG:205:GLY:HA3	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:30:VAL:HG13	1:AO:218:MET:HE3	1.53	0.91
1:Af:88:PHE:CE1	1:Af:205:GLY:HA3	2.05	0.91
1:Al:88:PHE:CE1	1:Al:205:GLY:HA3	2.05	0.91
1:BD:30:VAL:HG13	1:BD:218:MET:HE3	1.53	0.91
1:BE:30:VAL:HG13	1:BE:218:MET:HE3	1.53	0.91
1:BF:88:PHE:CE1	1:BF:205:GLY:HA3	2.05	0.91
3:D0:103:SER:HB3	3:D0:159:PRO:HA	1.52	0.91
3:D5:103:SER:HB3	3:D5:159:PRO:HA	1.52	0.91
3:DR:117:LYS:HB3	3:DR:119:LYS:HE3	1.50	0.91
3:DU:103:SER:HB3	3:DU:159:PRO:HA	1.53	0.91
3:DZ:117:LYS:HB3	3:DZ:119:LYS:HE3	1.50	0.91
3:Dp:103:SER:HB3	3:Dp:159:PRO:HA	1.52	0.91
3:EC:103:SER:HB3	3:EC:159:PRO:HA	1.53	0.91
1:AS:30:VAL:HG13	1:AS:218:MET:HE3	1.53	0.91
1:BB:30:VAL:HG13	1:BB:218:MET:HE3	1.53	0.91
3:Df:103:SER:HB3	3:Df:159:PRO:HA	1.52	0.91
3:Dg:103:SER:HB3	3:Dg:159:PRO:HA	1.53	0.91
3:Dn:103:SER:HB3	3:Dn:159:PRO:HA	1.53	0.91
1:A7:88:PHE:CE1	1:A7:205:GLY:HA3	2.05	0.91
1:A8:30:VAL:HG13	1:A8:218:MET:HE3	1.53	0.91
1:AA:30:VAL:HG13	1:AA:218:MET:HE3	1.53	0.91
1:AT:88:PHE:CE1	1:AT:205:GLY:HA3	2.05	0.91
1:BA:30:VAL:HG13	1:BA:218:MET:HE3	1.53	0.91
2:C8:209:VAL:H	2:C8:210:PRO:HD3	1.33	0.91
3:D5:117:LYS:HB3	3:D5:119:LYS:HE3	1.50	0.91
3:Dm:117:LYS:HB3	3:Dm:119:LYS:HE3	1.50	0.91
3:Dr:103:SER:HB3	3:Dr:159:PRO:HA	1.52	0.91
1:AL:30:VAL:HG13	1:AL:218:MET:HE3	1.53	0.91
1:BG:88:PHE:CE1	1:BG:205:GLY:HA3	2.05	0.91
3:D0:117:LYS:HB3	3:D0:119:LYS:HE3	1.50	0.91
3:DC:103:SER:HB3	3:DC:159:PRO:HA	1.52	0.91
3:DK:103:SER:HB3	3:DK:159:PRO:HA	1.52	0.91
3:De:103:SER:HB3	3:De:159:PRO:HA	1.52	0.91
3:Di:103:SER:HB3	3:Di:159:PRO:HA	1.52	0.91
1:A2:30:VAL:HG13	1:A2:218:MET:HE3	1.53	0.91
1:An:30:VAL:HG13	1:An:218:MET:HE3	1.53	0.91
2:CM:209:VAL:H	2:CM:210:PRO:HD3	1.32	0.91
2:Cm:209:VAL:H	2:Cm:210:PRO:HD3	1.32	0.91
3:D6:117:LYS:HB3	3:D6:119:LYS:HE3	1.50	0.91
3:DT:103:SER:HB3	3:DT:159:PRO:HA	1.53	0.91
3:Dm:103:SER:HB3	3:Dm:159:PRO:HA	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:117:LYS:HB3	3:EC:119:LYS:HE3	1.50	0.91
1:A1:30:VAL:HG13	1:A1:218:MET:HE3	1.53	0.91
1:A4:30:VAL:HG13	1:A4:218:MET:HE3	1.52	0.91
1:AP:30:VAL:HG13	1:AP:218:MET:HE3	1.53	0.91
1:AV:30:VAL:HG13	1:AV:218:MET:HE3	1.52	0.91
1:AW:30:VAL:HG13	1:AW:218:MET:HE3	1.53	0.91
1:AX:30:VAL:HG13	1:AX:218:MET:HE3	1.52	0.91
1:Af:30:VAL:HG13	1:Af:218:MET:HE3	1.53	0.91
3:D8:103:SER:HB3	3:D8:159:PRO:HA	1.52	0.91
3:DB:103:SER:HB3	3:DB:159:PRO:HA	1.52	0.91
3:DY:103:SER:HB3	3:DY:159:PRO:HA	1.52	0.91
3:DZ:103:SER:HB3	3:DZ:159:PRO:HA	1.53	0.91
1:A4:88:PHE:CE1	1:A4:205:GLY:HA3	2.05	0.90
1:AG:30:VAL:HG13	1:AG:218:MET:HE3	1.53	0.90
3:D1:103:SER:HB3	3:D1:159:PRO:HA	1.53	0.90
3:Ds:103:SER:HB3	3:Ds:159:PRO:HA	1.53	0.90
1:A8:88:PHE:CE1	1:A8:205:GLY:HA3	2.05	0.90
1:AK:30:VAL:HG13	1:AK:218:MET:HE3	1.53	0.90
1:AR:88:PHE:CE1	1:AR:205:GLY:HA3	2.05	0.90
3:D7:103:SER:HB3	3:D7:159:PRO:HA	1.53	0.90
3:D9:117:LYS:HB3	3:D9:119:LYS:HE3	1.50	0.90
3:DQ:117:LYS:HB3	3:DQ:119:LYS:HE3	1.50	0.90
1:A2:88:PHE:CE1	1:A2:205:GLY:HA3	2.05	0.90
1:A9:164:TRP:CZ2	1:A9:187:LEU:HD21	2.07	0.90
1:AF:30:VAL:HG13	1:AF:218:MET:HE3	1.53	0.90
1:AF:164:TRP:CZ2	1:AF:187:LEU:HD21	2.07	0.90
1:Aa:164:TRP:CZ2	1:Aa:187:LEU:HD21	2.07	0.90
1:Ae:88:PHE:CE1	1:Ae:205:GLY:HA3	2.05	0.90
1:BG:30:VAL:HG13	1:BG:218:MET:HE3	1.53	0.90
3:DE:117:LYS:HB3	3:DE:119:LYS:HE3	1.50	0.90
3:DP:103:SER:HB3	3:DP:159:PRO:HA	1.52	0.90
3:DX:103:SER:HB3	3:DX:159:PRO:HA	1.53	0.90
1:AB:30:VAL:HG13	1:AB:218:MET:HE3	1.53	0.90
1:AN:88:PHE:CE1	1:AN:205:GLY:HA3	2.05	0.90
1:AO:88:PHE:CE1	1:AO:205:GLY:HA3	2.05	0.90
1:AT:30:VAL:HG13	1:AT:218:MET:HE3	1.52	0.90
1:Ae:30:VAL:HG13	1:Ae:218:MET:HE3	1.53	0.90
2:CR:209:VAL:H	2:CR:210:PRO:HD3	1.32	0.90
3:DQ:103:SER:HB3	3:DQ:159:PRO:HA	1.52	0.90
3:Da:103:SER:HB3	3:Da:159:PRO:HA	1.52	0.90
3:Db:103:SER:HB3	3:Db:159:PRO:HA	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dk:103:SER:HB3	3:Dk:159:PRO:HA	1.52	0.90
3:Dq:103:SER:HB3	3:Dq:159:PRO:HA	1.52	0.90
1:AC:30:VAL:HG13	1:AC:218:MET:HE3	1.53	0.90
1:Ad:164:TRP:CZ2	1:Ad:187:LEU:HD21	2.07	0.90
1:Ag:82:LEU:HD11	1:Ag:211:TYR:HD2	1.37	0.90
1:BC:164:TRP:CZ2	1:BC:187:LEU:HD21	2.07	0.90
1:BH:164:TRP:CZ2	1:BH:187:LEU:HD21	2.07	0.90
1:BI:164:TRP:CZ2	1:BI:187:LEU:HD21	2.07	0.90
3:DE:103:SER:HB3	3:DE:159:PRO:HA	1.53	0.90
1:AA:164:TRP:CZ2	1:AA:187:LEU:HD21	2.07	0.90
1:AD:164:TRP:CZ2	1:AD:187:LEU:HD21	2.07	0.90
1:AH:164:TRP:CZ2	1:AH:187:LEU:HD21	2.07	0.90
1:AM:164:TRP:CZ2	1:AM:187:LEU:HD21	2.07	0.90
1:Ac:164:TRP:CZ2	1:Ac:187:LEU:HD21	2.07	0.90
1:Ah:30:VAL:HG13	1:Ah:218:MET:HE3	1.52	0.90
2:C1:82:PRO:HA	2:C1:193:THR:HB	1.54	0.90
2:C5:82:PRO:HA	2:C5:193:THR:HB	1.54	0.90
2:CV:82:PRO:HA	2:CV:193:THR:HB	1.54	0.90
3:Dg:117:LYS:HB3	3:Dg:119:LYS:HE3	1.50	0.90
1:A8:121:LEU:HD21	1:A9:207:CYS:H	1.37	0.90
1:AP:82:LEU:HD11	1:AP:211:TYR:HD2	1.37	0.90
1:AP:164:TRP:CZ2	1:AP:187:LEU:HD21	2.07	0.90
1:Ac:30:VAL:HG13	1:Ac:218:MET:HE3	1.52	0.90
1:Ah:164:TRP:CZ2	1:Ah:187:LEU:HD21	2.07	0.90
2:C7:82:PRO:HA	2:C7:193:THR:HB	1.54	0.90
2:Cg:82:PRO:HA	2:Cg:193:THR:HB	1.54	0.90
2:Co:209:VAL:H	2:Co:210:PRO:HD3	1.32	0.90
1:A0:30:VAL:HG13	1:A0:218:MET:HE3	1.53	0.90
1:AF:121:LEU:HD21	1:AG:207:CYS:H	1.37	0.90
1:AG:164:TRP:CZ2	1:AG:187:LEU:HD21	2.07	0.90
1:AJ:30:VAL:HG13	1:AJ:218:MET:HE3	1.53	0.90
1:AL:164:TRP:CZ2	1:AL:187:LEU:HD21	2.07	0.90
1:AO:82:LEU:HD11	1:AO:211:TYR:HD2	1.37	0.90
1:AT:82:LEU:HD11	1:AT:211:TYR:HD2	1.37	0.90
1:AV:164:TRP:CZ2	1:AV:187:LEU:HD21	2.07	0.90
1:AY:121:LEU:HD21	1:AZ:207:CYS:H	1.37	0.90
1:Ai:164:TRP:CZ2	1:Ai:187:LEU:HD21	2.07	0.90
1:Am:30:VAL:HG13	1:Am:218:MET:HE3	1.53	0.90
1:BE:164:TRP:CZ2	1:BE:187:LEU:HD21	2.07	0.90
1:BF:164:TRP:CZ2	1:BF:187:LEU:HD21	2.07	0.90
3:Dc:103:SER:HB3	3:Dc:159:PRO:HA	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:207:CYS:H	1:AZ:121:LEU:HD21	1.37	0.90
1:A2:121:LEU:HD21	1:AY:207:CYS:H	1.37	0.90
1:A5:121:LEU:HD21	1:A6:207:CYS:H	1.37	0.90
1:AC:164:TRP:CZ2	1:AC:187:LEU:HD21	2.07	0.90
1:AU:82:LEU:HD11	1:AU:211:TYR:HD2	1.37	0.90
1:AY:82:LEU:HD11	1:AY:211:TYR:HD2	1.37	0.90
1:Al:164:TRP:CZ2	1:Al:187:LEU:HD21	2.07	0.90
2:CG:82:PRO:HA	2:CG:193:THR:HB	1.54	0.90
2:CZ:82:PRO:HA	2:CZ:193:THR:HB	1.54	0.90
2:Cu:82:PRO:HA	2:Cu:193:THR:HB	1.54	0.90
3:Dd:103:SER:HB3	3:Dd:159:PRO:HA	1.52	0.90
1:A3:82:LEU:HD11	1:A3:211:TYR:HD2	1.37	0.90
1:A4:121:LEU:HD21	1:A5:207:CYS:H	1.37	0.90
1:A5:82:LEU:HD11	1:A5:211:TYR:HD2	1.37	0.90
1:AE:164:TRP:CZ2	1:AE:187:LEU:HD21	2.07	0.90
1:AK:82:LEU:HD11	1:AK:211:TYR:HD2	1.37	0.90
1:AP:164:TRP:NE1	1:AP:187:LEU:HD11	1.87	0.90
1:Af:164:TRP:CZ2	1:Af:187:LEU:HD21	2.07	0.90
1:Ag:164:TRP:CZ2	1:Ag:187:LEU:HD21	2.07	0.90
1:Aj:82:LEU:HD11	1:Aj:211:TYR:HD2	1.37	0.90
1:An:164:TRP:CZ2	1:An:187:LEU:HD21	2.07	0.90
1:BA:164:TRP:CZ2	1:BA:187:LEU:HD21	2.07	0.90
1:BB:164:TRP:CZ2	1:BB:187:LEU:HD21	2.07	0.90
2:CH:82:PRO:HA	2:CH:193:THR:HB	1.54	0.90
1:A6:164:TRP:CZ2	1:A6:187:LEU:HD21	2.07	0.89
1:AA:207:CYS:H	1:AE:121:LEU:HD21	1.37	0.89
1:AF:207:CYS:H	1:AJ:121:LEU:HD21	1.37	0.89
1:AG:121:LEU:HD21	1:AH:207:CYS:H	1.37	0.89
1:AG:164:TRP:NE1	1:AG:187:LEU:HD11	1.88	0.89
1:AL:164:TRP:NE1	1:AL:187:LEU:HD11	1.87	0.89
1:Af:164:TRP:NE1	1:Af:187:LEU:HD11	1.88	0.89
1:Aj:164:TRP:CZ2	1:Aj:187:LEU:HD21	2.07	0.89
1:Am:164:TRP:CZ2	1:Am:187:LEU:HD21	2.07	0.89
1:BG:121:LEU:HD21	1:BH:207:CYS:H	1.37	0.89
1:BH:30:VAL:HG13	1:BH:218:MET:HE3	1.53	0.89
2:C3:82:PRO:HA	2:C3:193:THR:HB	1.54	0.89
2:CB:82:PRO:HA	2:CB:193:THR:HB	1.54	0.89
2:Cd:82:PRO:HA	2:Cd:193:THR:HB	1.54	0.89
2:Cq:82:PRO:HA	2:Cq:193:THR:HB	1.54	0.89
2:Cw:82:PRO:HA	2:Cw:193:THR:HB	1.54	0.89
3:Dn:117:LYS:HB3	3:Dn:119:LYS:HE3	1.50	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:164:TRP:NE1	1:AC:187:LEU:HD11	1.88	0.89
1:AR:121:LEU:HD21	1:Ao:207:CYS:H	1.37	0.89
1:Ae:164:TRP:NE1	1:Ae:187:LEU:HD11	1.88	0.89
1:Aj:30:VAL:HG13	1:Aj:218:MET:HE3	1.53	0.89
1:Al:82:LEU:HD11	1:Al:211:TYR:HD2	1.37	0.89
1:BA:164:TRP:NE1	1:BA:187:LEU:HD11	1.87	0.89
1:BC:164:TRP:NE1	1:BC:187:LEU:HD11	1.88	0.89
3:DH:117:LYS:HB3	3:DH:119:LYS:HE3	1.50	0.89
1:A0:164:TRP:CZ2	1:A0:187:LEU:HD21	2.07	0.89
1:A6:121:LEU:HD21	1:A7:207:CYS:H	1.37	0.89
1:A7:164:TRP:CZ2	1:A7:187:LEU:HD21	2.07	0.89
1:A8:164:TRP:CZ2	1:A8:187:LEU:HD21	2.07	0.89
1:AE:82:LEU:HD11	1:AE:211:TYR:HD2	1.37	0.89
1:AO:164:TRP:CZ2	1:AO:187:LEU:HD21	2.07	0.89
1:AT:121:LEU:HD21	1:AU:207:CYS:H	1.37	0.89
1:AU:30:VAL:HG13	1:AU:218:MET:HE3	1.53	0.89
1:AU:164:TRP:NE1	1:AU:187:LEU:HD11	1.88	0.89
1:Am:164:TRP:NE1	1:Am:187:LEU:HD11	1.88	0.89
1:Ao:164:TRP:CZ2	1:Ao:187:LEU:HD21	2.07	0.89
1:BG:82:LEU:HD11	1:BG:211:TYR:HD2	1.37	0.89
2:C0:82:PRO:HA	2:C0:193:THR:HB	1.54	0.89
2:C8:82:PRO:HA	2:C8:193:THR:HB	1.54	0.89
3:Do:103:SER:HB3	3:Do:159:PRO:HA	1.53	0.89
1:AM:164:TRP:NE1	1:AM:187:LEU:HD11	1.88	0.89
1:AR:164:TRP:CZ2	1:AR:187:LEU:HD21	2.07	0.89
1:AT:164:TRP:CZ2	1:AT:187:LEU:HD21	2.07	0.89
1:AU:164:TRP:CZ2	1:AU:187:LEU:HD21	2.07	0.89
1:Ak:121:LEU:HD21	1:Al:207:CYS:H	1.37	0.89
1:Ak:164:TRP:NE1	1:Ak:187:LEU:HD11	1.88	0.89
1:Ao:30:VAL:HG13	1:Ao:218:MET:HE3	1.53	0.89
1:BF:164:TRP:NE1	1:BF:187:LEU:HD11	1.88	0.89
1:BI:164:TRP:NE1	1:BI:187:LEU:HD11	1.88	0.89
3:DF:103:SER:HB3	3:DF:159:PRO:HA	1.52	0.89
1:A1:82:LEU:HD11	1:A1:211:TYR:HD2	1.37	0.89
1:A8:207:CYS:H	1:Ab:121:LEU:HD21	1.37	0.89
1:AA:82:LEU:HD11	1:AA:211:TYR:HD2	1.37	0.89
1:AE:164:TRP:NE1	1:AE:187:LEU:HD11	1.88	0.89
1:AH:82:LEU:HD11	1:AH:211:TYR:HD2	1.37	0.89
1:AI:121:LEU:HD21	1:AJ:207:CYS:H	1.37	0.89
1:AN:82:LEU:HD11	1:AN:211:TYR:HD2	1.37	0.89
1:AS:164:TRP:NE1	1:AS:187:LEU:HD11	1.88	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:207:CYS:H	1:AX:121:LEU:HD21	1.37	0.89
1:AV:164:TRP:NE1	1:AV:187:LEU:HD11	1.88	0.89
1:AW:121:LEU:HD21	1:AX:207:CYS:H	1.37	0.89
1:AW:164:TRP:CZ2	1:AW:187:LEU:HD21	2.07	0.89
1:AX:164:TRP:NE1	1:AX:187:LEU:HD11	1.88	0.89
1:AY:30:VAL:HG13	1:AY:218:MET:HE3	1.53	0.89
1:AZ:164:TRP:CZ2	1:AZ:187:LEU:HD21	2.07	0.89
1:Ab:30:VAL:HG13	1:Ab:218:MET:HE3	1.53	0.89
1:Ag:164:TRP:NE1	1:Ag:187:LEU:HD11	1.88	0.89
1:Ah:164:TRP:NE1	1:Ah:187:LEU:HD11	1.88	0.89
1:Al:164:TRP:NE1	1:Al:187:LEU:HD11	1.88	0.89
1:BB:121:LEU:HD21	1:BC:207:CYS:H	1.37	0.89
2:CY:82:PRO:HA	2:CY:193:THR:HB	1.54	0.89
1:A1:164:TRP:CZ2	1:A1:187:LEU:HD21	2.07	0.89
1:A3:121:LEU:HD21	1:A4:207:CYS:H	1.37	0.89
1:A4:164:TRP:CZ2	1:A4:187:LEU:HD21	2.07	0.89
1:A8:164:TRP:NE1	1:A8:187:LEU:HD11	1.88	0.89
1:AD:30:VAL:HG13	1:AD:218:MET:HE3	1.53	0.89
1:AD:82:LEU:HD11	1:AD:211:TYR:HD2	1.37	0.89
1:AG:82:LEU:HD11	1:AG:211:TYR:HD2	1.37	0.89
1:AY:164:TRP:NE1	1:AY:187:LEU:HD11	1.88	0.89
1:Ab:164:TRP:CZ2	1:Ab:187:LEU:HD21	2.07	0.89
2:CU:82:PRO:HA	2:CU:193:THR:HB	1.54	0.89
3:Dj:103:SER:HB3	3:Dj:159:PRO:HA	1.52	0.89
1:A4:164:TRP:NE1	1:A4:187:LEU:HD11	1.88	0.89
1:AB:121:LEU:HD21	1:AC:207:CYS:H	1.37	0.89
1:AI:164:TRP:NE1	1:AI:187:LEU:HD11	1.88	0.89
1:AI:164:TRP:CZ2	1:AI:187:LEU:HD21	2.07	0.89
1:AJ:164:TRP:NE1	1:AJ:187:LEU:HD11	1.88	0.89
1:AN:164:TRP:NE1	1:AN:187:LEU:HD11	1.88	0.89
1:AQ:164:TRP:CZ2	1:AQ:187:LEU:HD21	2.07	0.89
1:AS:164:TRP:CZ2	1:AS:187:LEU:HD21	2.07	0.89
1:AY:164:TRP:CZ2	1:AY:187:LEU:HD21	2.07	0.89
1:AZ:82:LEU:HD11	1:AZ:211:TYR:HD2	1.37	0.89
1:Am:121:LEU:HD21	1:BA:207:CYS:H	1.37	0.89
1:BC:121:LEU:HD21	1:BD:207:CYS:H	1.37	0.89
1:BE:164:TRP:NE1	1:BE:187:LEU:HD11	1.88	0.89
1:BH:121:LEU:HD21	1:BI:207:CYS:H	1.37	0.89
1:BI:82:LEU:HD11	1:BI:211:TYR:HD2	1.37	0.89
2:C4:82:PRO:HA	2:C4:193:THR:HB	1.54	0.89
2:Ci:82:PRO:HA	2:Ci:193:THR:HB	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:103:SER:HB3	3:DL:159:PRO:HA	1.52	0.89
3:DM:103:SER:HB3	3:DM:159:PRO:HA	1.52	0.89
3:DS:103:SER:HB3	3:DS:159:PRO:HA	1.53	0.89
1:A2:164:TRP:NE1	1:A2:187:LEU:HD11	1.88	0.89
1:A3:164:TRP:NE1	1:A3:187:LEU:HD11	1.88	0.89
1:Ag:30:VAL:HG13	1:Ag:218:MET:HE3	1.53	0.89
1:BA:121:LEU:HD21	1:BB:207:CYS:H	1.37	0.89
1:BC:82:LEU:HD11	1:BC:211:TYR:HD2	1.37	0.89
1:BH:164:TRP:NE1	1:BH:187:LEU:HD11	1.87	0.89
2:C6:82:PRO:HA	2:C6:193:THR:HB	1.54	0.89
1:A1:164:TRP:NE1	1:A1:187:LEU:HD11	1.88	0.89
1:AK:164:TRP:CZ2	1:AK:187:LEU:HD21	2.07	0.89
1:AN:121:LEU:HD21	1:AO:207:CYS:H	1.37	0.89
1:AP:121:LEU:HD21	1:AQ:207:CYS:H	1.37	0.89
1:AR:164:TRP:NE1	1:AR:187:LEU:HD11	1.88	0.89
1:Ab:82:LEU:HD11	1:Ab:211:TYR:HD2	1.37	0.89
1:Ac:82:LEU:HD11	1:Ac:211:TYR:HD2	1.37	0.89
1:Ad:164:TRP:NE1	1:Ad:187:LEU:HD11	1.88	0.89
1:Ak:164:TRP:CZ2	1:Ak:187:LEU:HD21	2.07	0.89
1:An:164:TRP:NE1	1:An:187:LEU:HD11	1.88	0.89
1:BC:30:VAL:HG13	1:BC:218:MET:HE3	1.53	0.89
2:CM:82:PRO:HA	2:CM:193:THR:HB	1.54	0.89
2:CN:82:PRO:HA	2:CN:193:THR:HB	1.54	0.89
2:CW:82:PRO:HA	2:CW:193:THR:HB	1.54	0.89
2:Ck:82:PRO:HA	2:Ck:193:THR:HB	1.54	0.89
1:A5:164:TRP:CZ2	1:A5:187:LEU:HD21	2.07	0.89
1:AN:164:TRP:CZ2	1:AN:187:LEU:HD21	2.07	0.89
1:AO:164:TRP:NE1	1:AO:187:LEU:HD11	1.88	0.89
1:AX:82:LEU:HD11	1:AX:211:TYR:HD2	1.37	0.89
1:Ae:121:LEU:HD21	1:Af:207:CYS:H	1.37	0.89
1:Ao:164:TRP:NE1	1:Ao:187:LEU:HD11	1.88	0.89
2:Cc:82:PRO:HA	2:Cc:193:THR:HB	1.54	0.89
3:Dl:103:SER:HB3	3:Dl:159:PRO:HA	1.52	0.89
1:AF:164:TRP:NE1	1:AF:187:LEU:HD11	1.88	0.88
1:AH:30:VAL:HG13	1:AH:218:MET:HE3	1.53	0.88
2:C0:46:THR:HG21	3:D1:165:ASP:HA	1.55	0.88
2:C2:82:PRO:HA	2:C2:193:THR:HB	1.54	0.88
1:AC:121:LEU:HD21	1:AD:207:CYS:H	1.37	0.88
1:AK:164:TRP:NE1	1:AK:187:LEU:HD11	1.88	0.88
1:AX:164:TRP:CZ2	1:AX:187:LEU:HD21	2.07	0.88
1:Aa:82:LEU:HD11	1:Aa:211:TYR:HD2	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aa:164:TRP:NE1	1:Aa:187:LEU:HD11	1.88	0.88
1:Ab:164:TRP:NE1	1:Ab:187:LEU:HD11	1.88	0.88
1:BF:82:LEU:HD11	1:BF:211:TYR:HD2	1.37	0.88
1:BG:164:TRP:NE1	1:BG:187:LEU:HD11	1.88	0.88
1:BI:30:VAL:HG13	1:BI:218:MET:HE3	1.53	0.88
2:Cg:46:THR:HG21	3:Dh:165:ASP:HA	1.56	0.88
2:Cr:82:PRO:HA	2:Cr:193:THR:HB	1.54	0.88
2:Cs:82:PRO:HA	2:Cs:193:THR:HB	1.54	0.88
1:A3:30:VAL:HG13	1:A3:218:MET:HE3	1.53	0.88
1:A6:82:LEU:HD11	1:A6:211:TYR:HD2	1.37	0.88
1:A8:82:LEU:HD11	1:A8:211:TYR:HD2	1.37	0.88
1:AB:164:TRP:CZ2	1:AB:187:LEU:HD21	2.07	0.88
1:AC:82:LEU:HD11	1:AC:211:TYR:HD2	1.37	0.88
1:AV:82:LEU:HD11	1:AV:211:TYR:HD2	1.37	0.88
1:Aj:121:LEU:HD21	1:Ak:207:CYS:H	1.37	0.88
2:CS:82:PRO:HA	2:CS:193:THR:HB	1.54	0.88
2:Co:82:PRO:HA	2:Co:193:THR:HB	1.54	0.88
3:DJ:103:SER:HB3	3:DJ:159:PRO:HA	1.52	0.88
1:A4:82:LEU:HD11	1:A4:211:TYR:HD2	1.37	0.88
1:A9:164:TRP:NE1	1:A9:187:LEU:HD11	1.88	0.88
1:AB:164:TRP:NE1	1:AB:187:LEU:HD11	1.88	0.88
1:AQ:82:LEU:HD11	1:AQ:211:TYR:HD2	1.37	0.88
1:BA:82:LEU:HD11	1:BA:211:TYR:HD2	1.37	0.88
1:BB:164:TRP:NE1	1:BB:187:LEU:HD11	1.88	0.88
1:BD:164:TRP:NE1	1:BD:187:LEU:HD11	1.88	0.88
1:BD:164:TRP:CZ2	1:BD:187:LEU:HD21	2.07	0.88
2:Ca:46:THR:HG21	3:Db:165:ASP:HA	1.55	0.88
2:Cx:46:THR:HG21	3:EA:165:ASP:HA	1.56	0.88
1:A3:164:TRP:CZ2	1:A3:187:LEU:HD21	2.07	0.88
1:A5:164:TRP:NE1	1:A5:187:LEU:HD11	1.88	0.88
1:A7:82:LEU:HD11	1:A7:211:TYR:HD2	1.37	0.88
1:AH:164:TRP:NE1	1:AH:187:LEU:HD11	1.88	0.88
1:AM:121:LEU:HD21	1:AN:207:CYS:H	1.37	0.88
1:AQ:164:TRP:NE1	1:AQ:187:LEU:HD11	1.87	0.88
1:Ak:82:LEU:HD11	1:Ak:211:TYR:HD2	1.37	0.88
1:BH:82:LEU:HD11	1:BH:211:TYR:HD2	1.37	0.88
1:A9:121:LEU:HD21	1:An:207:CYS:H	1.37	0.88
1:AB:48:LEU:HD22	1:AB:130:ILE:HA	1.56	0.88
1:AJ:164:TRP:CZ2	1:AJ:187:LEU:HD21	2.07	0.88
1:AT:164:TRP:NE1	1:AT:187:LEU:HD11	1.88	0.88
1:Ai:164:TRP:NE1	1:Ai:187:LEU:HD11	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C5:46:THR:HG21	3:D6:165:ASP:HA	1.55	0.88
2:CB:46:THR:HG21	3:DC:165:ASP:HA	1.55	0.88
2:CE:46:THR:HG21	3:DA:165:ASP:HA	1.56	0.88
2:CE:82:PRO:HA	2:CE:193:THR:HB	1.54	0.88
3:DH:8:VAL:HG12	3:DH:9:PRO:HD2	1.56	0.88
1:A1:121:LEU:HD21	1:A2:207:CYS:H	1.37	0.88
1:A3:48:LEU:HD22	1:A3:130:ILE:HA	1.56	0.88
1:A9:30:VAL:HG13	1:A9:218:MET:HE3	1.53	0.88
1:AG:48:LEU:HD22	1:AG:130:ILE:HA	1.56	0.88
1:AK:121:LEU:HD21	1:AL:207:CYS:H	1.37	0.88
1:AM:82:LEU:HD11	1:AM:211:TYR:HD2	1.37	0.88
1:AP:48:LEU:HD22	1:AP:130:ILE:HA	1.56	0.88
1:AT:48:LEU:HD22	1:AT:130:ILE:HA	1.56	0.88
1:Ad:48:LEU:HD22	1:Ad:130:ILE:HA	1.56	0.88
1:BE:48:LEU:HD22	1:BE:130:ILE:HA	1.56	0.88
1:BE:82:LEU:HD11	1:BE:211:TYR:HD2	1.37	0.88
1:BF:48:LEU:HD22	1:BF:130:ILE:HA	1.56	0.88
2:C9:58:LEU:HD13	2:C9:94:PHE:HA	1.56	0.88
2:CW:46:THR:HG21	3:DX:165:ASP:HA	1.56	0.88
1:A0:121:LEU:HD21	1:A1:207:CYS:H	1.37	0.88
1:A5:30:VAL:HG13	1:A5:218:MET:HE3	1.53	0.88
1:A6:48:LEU:HD22	1:A6:130:ILE:HA	1.56	0.88
1:A7:164:TRP:NE1	1:A7:187:LEU:HD11	1.88	0.88
1:AD:164:TRP:NE1	1:AD:187:LEU:HD11	1.88	0.88
1:Ac:48:LEU:HD22	1:Ac:130:ILE:HA	1.56	0.88
1:Ae:164:TRP:CZ2	1:Ae:187:LEU:HD21	2.07	0.88
1:Aj:48:LEU:HD22	1:Aj:130:ILE:HA	1.56	0.88
1:BG:164:TRP:CZ2	1:BG:187:LEU:HD21	2.07	0.88
2:C3:46:THR:HG21	3:DZ:165:ASP:HA	1.56	0.88
2:C4:58:LEU:HD13	2:C4:94:PHE:HA	1.56	0.88
2:C5:58:LEU:HD13	2:C5:94:PHE:HA	1.56	0.88
2:C7:46:THR:HG21	3:D8:165:ASP:HA	1.56	0.88
2:CD:58:LEU:HD13	2:CD:94:PHE:HA	1.56	0.88
2:CI:82:PRO:HA	2:CI:193:THR:HB	1.54	0.88
2:CQ:46:THR:HG21	3:DR:165:ASP:HA	1.55	0.88
2:CT:82:PRO:HA	2:CT:193:THR:HB	1.54	0.88
2:Ch:58:LEU:HD13	2:Ch:94:PHE:HA	1.56	0.88
2:Cx:82:PRO:HA	2:Cx:193:THR:HB	1.54	0.88
3:DE:8:VAL:HG12	3:DE:9:PRO:HD2	1.56	0.88
3:Dk:8:VAL:HG12	3:Dk:9:PRO:HD2	1.56	0.88
3:Dn:8:VAL:HG12	3:Dn:9:PRO:HD2	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:164:TRP:CZ2	1:A2:187:LEU:HD21	2.07	0.88
1:AW:82:LEU:HD11	1:AW:211:TYR:HD2	1.37	0.88
1:AZ:30:VAL:HG13	1:AZ:218:MET:HE3	1.53	0.88
1:AZ:48:LEU:HD22	1:AZ:130:ILE:HA	1.56	0.88
1:Af:121:LEU:HD21	1:Ag:207:CYS:H	1.37	0.88
1:BF:121:LEU:HD21	1:BG:207:CYS:H	1.37	0.88
1:BG:48:LEU:HD22	1:BG:130:ILE:HA	1.56	0.88
2:CG:46:THR:HG21	3:DH:165:ASP:HA	1.55	0.88
2:CK:46:THR:HG21	3:DL:165:ASP:HA	1.56	0.88
2:Cd:46:THR:HG21	3:D9:165:ASP:HA	1.55	0.88
2:Cs:46:THR:HG21	3:Do:165:ASP:HA	1.56	0.88
2:Cu:46:THR:HG21	3:EC:165:ASP:HA	1.55	0.88
3:DM:8:VAL:HG12	3:DM:9:PRO:HD2	1.56	0.88
3:DR:8:VAL:HG12	3:DR:9:PRO:HD2	1.56	0.88
3:DT:8:VAL:HG12	3:DT:9:PRO:HD2	1.56	0.88
3:Db:8:VAL:HG12	3:Db:9:PRO:HD2	1.56	0.88
3:Ds:8:VAL:HG12	3:Ds:9:PRO:HD2	1.56	0.88
1:A1:48:LEU:HD22	1:A1:130:ILE:HA	1.56	0.88
1:AA:121:LEU:HD21	1:AB:207:CYS:H	1.37	0.88
1:Aa:48:LEU:HD22	1:Aa:130:ILE:HA	1.56	0.88
1:Ac:207:CYS:H	1:Ag:121:LEU:HD21	1.37	0.88
1:Ae:48:LEU:HD22	1:Ae:130:ILE:HA	1.56	0.88
1:BI:48:LEU:HD22	1:BI:130:ILE:HA	1.56	0.88
2:C8:58:LEU:HD13	2:C8:94:PHE:HA	1.56	0.88
2:CF:82:PRO:HA	2:CF:193:THR:HB	1.54	0.88
2:Ck:46:THR:HG21	3:DL:165:ASP:HA	1.56	0.88
2:Co:58:LEU:HD13	2:Co:94:PHE:HA	1.56	0.88
2:Cq:46:THR:HG21	3:Dr:165:ASP:HA	1.56	0.88
3:D4:222:LEU:HD13	3:D4:223:PRO:HD2	1.56	0.88
3:DG:222:LEU:HD13	3:DG:223:PRO:HD2	1.56	0.88
3:DU:222:LEU:HD13	3:DU:223:PRO:HD2	1.56	0.88
3:Dq:8:VAL:HG12	3:Dq:9:PRO:HD2	1.56	0.88
1:A0:164:TRP:NE1	1:A0:187:LEU:HD11	1.88	0.87
1:AD:48:LEU:HD22	1:AD:130:ILE:HA	1.56	0.87
1:AJ:48:LEU:HD22	1:AJ:130:ILE:HA	1.56	0.87
1:AX:48:LEU:HD22	1:AX:130:ILE:HA	1.56	0.87
1:Am:207:CYS:H	1:BD:121:LEU:HD21	1.38	0.87
1:Ao:82:LEU:HD11	1:Ao:211:TYR:HD2	1.37	0.87
1:BE:207:CYS:H	1:BI:121:LEU:HD21	1.37	0.87
2:C2:46:THR:HG21	3:D3:165:ASP:HA	1.55	0.87
2:C4:46:THR:HG21	3:D5:165:ASP:HA	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:156:SER:HB3	3:DE:51:TYR:HE1	1.40	0.87
2:CJ:82:PRO:HA	2:CJ:193:THR:HB	1.54	0.87
2:CL:82:PRO:HA	2:CL:193:THR:HB	1.54	0.87
2:CM:58:LEU:HD13	2:CM:94:PHE:HA	1.56	0.87
2:CV:58:LEU:HD13	2:CV:94:PHE:HA	1.56	0.87
2:Cd:58:LEU:HD13	2:Cd:94:PHE:HA	1.56	0.87
2:Ci:46:THR:HG21	3:De:165:ASP:HA	1.55	0.87
2:Cn:156:SER:HB3	3:Dn:51:TYR:HE1	1.40	0.87
2:Co:156:SER:HB3	3:Do:51:TYR:HE1	1.40	0.87
2:Cw:58:LEU:HD13	2:Cw:94:PHE:HA	1.56	0.87
3:D2:222:LEU:HD13	3:D2:223:PRO:HD2	1.56	0.87
3:DB:8:VAL:HG12	3:DB:9:PRO:HD2	1.56	0.87
3:DL:8:VAL:HG12	3:DL:9:PRO:HD2	1.56	0.87
3:DV:8:VAL:HG12	3:DV:9:PRO:HD2	1.56	0.87
3:DW:8:VAL:HG12	3:DW:9:PRO:HD2	1.56	0.87
3:De:8:VAL:HG12	3:De:9:PRO:HD2	1.56	0.87
1:A0:48:LEU:HD22	1:A0:130:ILE:HA	1.56	0.87
1:AN:48:LEU:HD22	1:AN:130:ILE:HA	1.56	0.87
1:AW:164:TRP:NE1	1:AW:187:LEU:HD11	1.88	0.87
1:Aa:207:CYS:H	1:An:121:LEU:HD21	1.37	0.87
1:Ac:164:TRP:NE1	1:Ac:187:LEU:HD11	1.88	0.87
1:Af:82:LEU:HD11	1:Af:211:TYR:HD2	1.37	0.87
1:Aj:164:TRP:NE1	1:Aj:187:LEU:HD11	1.88	0.87
1:Am:82:LEU:HD11	1:Am:211:TYR:HD2	1.37	0.87
1:An:82:LEU:HD11	1:An:211:TYR:HD2	1.37	0.87
1:BB:82:LEU:HD11	1:BB:211:TYR:HD2	1.37	0.87
1:BD:48:LEU:HD22	1:BD:130:ILE:HA	1.56	0.87
2:C6:58:LEU:HD13	2:C6:94:PHE:HA	1.56	0.87
2:Cb:82:PRO:HA	2:Cb:193:THR:HB	1.54	0.87
2:Ci:58:LEU:HD13	2:Ci:94:PHE:HA	1.56	0.87
2:Ck:58:LEU:HD13	2:Ck:94:PHE:HA	1.56	0.87
2:Cm:156:SER:HB3	3:Dm:51:TYR:HE1	1.40	0.87
2:Cp:58:LEU:HD13	2:Cp:94:PHE:HA	1.56	0.87
2:Ct:82:PRO:HA	2:Ct:193:THR:HB	1.54	0.87
3:De:222:LEU:HD13	3:De:223:PRO:HD2	1.56	0.87
3:ED:8:VAL:HG12	3:ED:9:PRO:HD2	1.56	0.87
3:EE:8:VAL:HG12	3:EE:9:PRO:HD2	1.56	0.87
1:A2:48:LEU:HD22	1:A2:130:ILE:HA	1.56	0.87
1:AA:164:TRP:NE1	1:AA:187:LEU:HD11	1.88	0.87
1:Ac:121:LEU:HD21	1:Ad:207:CYS:H	1.37	0.87
2:C6:46:THR:HG21	3:D7:165:ASP:HA	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CK:156:SER:HB3	3:DK:51:TYR:HE1	1.40	0.87
2:CQ:156:SER:HB3	3:DQ:51:TYR:HE1	1.40	0.87
2:CS:46:THR:HG21	3:DT:165:ASP:HA	1.56	0.87
2:CU:46:THR:HG21	3:DV:165:ASP:HA	1.55	0.87
2:CW:156:SER:HB3	3:DW:51:TYR:HE1	1.39	0.87
2:Ca:58:LEU:HD13	2:Ca:94:PHE:HA	1.56	0.87
2:Cd:156:SER:HB3	3:Dd:51:TYR:HE1	1.40	0.87
3:D6:8:VAL:HG12	3:D6:9:PRO:HD2	1.56	0.87
3:DH:222:LEU:HD13	3:DH:223:PRO:HD2	1.56	0.87
3:DI:8:VAL:HG12	3:DI:9:PRO:HD2	1.56	0.87
3:DN:103:SER:HB3	3:DN:159:PRO:HA	1.52	0.87
3:DV:222:LEU:HD13	3:DV:223:PRO:HD2	1.57	0.87
3:Do:222:LEU:HD13	3:Do:223:PRO:HD2	1.57	0.87
3:Dr:222:LEU:HD13	3:Dr:223:PRO:HD2	1.56	0.87
3:ED:222:LEU:HD13	3:ED:223:PRO:HD2	1.57	0.87
1:A8:48:LEU:HD22	1:A8:130:ILE:HA	1.56	0.87
1:AL:82:LEU:HD11	1:AL:211:TYR:HD2	1.37	0.87
1:AM:48:LEU:HD22	1:AM:130:ILE:HA	1.56	0.87
2:C4:156:SER:HB3	3:D4:51:TYR:HE1	1.40	0.87
2:C9:156:SER:HB3	3:D9:51:TYR:HE1	1.40	0.87
2:CC:58:LEU:HD13	2:CC:94:PHE:HA	1.56	0.87
2:CC:82:PRO:HA	2:CC:193:THR:HB	1.54	0.87
2:CG:156:SER:HB3	3:DG:51:TYR:HE1	1.40	0.87
2:CH:156:SER:HB3	3:DH:51:TYR:HE1	1.39	0.87
2:CM:46:THR:HG21	3:DN:165:ASP:HA	1.56	0.87
2:Cf:82:PRO:HA	2:Cf:193:THR:HB	1.54	0.87
2:Cg:156:SER:HB3	3:Dg:51:TYR:HE1	1.40	0.87
2:Cv:82:PRO:HA	2:Cv:193:THR:HB	1.54	0.87
3:DC:222:LEU:HD13	3:DC:223:PRO:HD2	1.56	0.87
3:Di:222:LEU:HD13	3:Di:223:PRO:HD2	1.57	0.87
3:Dr:8:VAL:HG12	3:Dr:9:PRO:HD2	1.56	0.87
3:EE:222:LEU:HD13	3:EE:223:PRO:HD2	1.57	0.87
1:A5:48:LEU:HD22	1:A5:130:ILE:HA	1.56	0.87
1:A7:48:LEU:HD22	1:A7:130:ILE:HA	1.56	0.87
1:AE:48:LEU:HD22	1:AE:130:ILE:HA	1.56	0.87
1:Ae:82:LEU:HD11	1:Ae:211:TYR:HD2	1.37	0.87
1:Ah:121:LEU:HD21	1:Ai:207:CYS:H	1.37	0.87
1:Ai:48:LEU:HD22	1:Ai:130:ILE:HA	1.56	0.87
1:Ai:82:LEU:HD11	1:Ai:211:TYR:HD2	1.37	0.87
1:BH:48:LEU:HD22	1:BH:130:ILE:HA	1.56	0.87
2:CF:46:THR:HG21	3:DG:165:ASP:HA	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CJ:58:LEU:HD13	2:CJ:94:PHE:HA	1.56	0.87
2:CT:58:LEU:HD13	2:CT:94:PHE:HA	1.56	0.87
2:CX:82:PRO:HA	2:CX:193:THR:HB	1.54	0.87
2:Cb:156:SER:HB3	3:Db:51:TYR:HE1	1.40	0.87
2:Ce:82:PRO:HA	2:Ce:193:THR:HB	1.54	0.87
2:Cn:46:THR:HG21	3:Dj:165:ASP:HA	1.55	0.87
2:Cn:82:PRO:HA	2:Cn:193:THR:HB	1.54	0.87
2:Cv:58:LEU:HD13	2:Cv:94:PHE:HA	1.56	0.87
2:Cw:46:THR:HG21	3:EE:165:ASP:HA	1.55	0.87
3:D3:222:LEU:HD13	3:D3:223:PRO:HD2	1.56	0.87
3:DA:222:LEU:HD13	3:DA:223:PRO:HD2	1.56	0.87
3:DC:8:VAL:HG12	3:DC:9:PRO:HD2	1.56	0.87
3:DG:8:VAL:HG12	3:DG:9:PRO:HD2	1.56	0.87
3:DK:222:LEU:HD13	3:DK:223:PRO:HD2	1.56	0.87
3:DL:222:LEU:HD13	3:DL:223:PRO:HD2	1.56	0.87
3:DS:222:LEU:HD13	3:DS:223:PRO:HD2	1.57	0.87
3:Da:8:VAL:HG12	3:Da:9:PRO:HD2	1.56	0.87
3:Da:222:LEU:HD13	3:Da:223:PRO:HD2	1.57	0.87
3:Df:222:LEU:HD13	3:Df:223:PRO:HD2	1.56	0.87
3:Dj:222:LEU:HD13	3:Dj:223:PRO:HD2	1.56	0.87
3:Dq:222:LEU:HD13	3:Dq:223:PRO:HD2	1.57	0.87
1:A6:30:VAL:HG13	1:A6:218:MET:HE3	1.53	0.87
1:A9:82:LEU:HD11	1:A9:211:TYR:HD2	1.37	0.87
1:AB:82:LEU:HD11	1:AB:211:TYR:HD2	1.37	0.87
1:AD:121:LEU:HD21	1:AE:207:CYS:H	1.37	0.87
1:AJ:82:LEU:HD11	1:AJ:211:TYR:HD2	1.37	0.87
1:AR:82:LEU:HD11	1:AR:211:TYR:HD2	1.37	0.87
1:AW:48:LEU:HD22	1:AW:130:ILE:HA	1.56	0.87
1:Ab:48:LEU:HD22	1:Ab:130:ILE:HA	1.56	0.87
1:Af:48:LEU:HD22	1:Af:130:ILE:HA	1.56	0.87
1:Ao:48:LEU:HD22	1:Ao:130:ILE:HA	1.56	0.87
1:BB:48:LEU:HD22	1:BB:130:ILE:HA	1.56	0.87
2:CP:58:LEU:HD13	2:CP:94:PHE:HA	1.56	0.87
3:D0:8:VAL:HG12	3:D0:9:PRO:HD2	1.56	0.87
3:D8:222:LEU:HD13	3:D8:223:PRO:HD2	1.57	0.87
3:DQ:8:VAL:HG12	3:DQ:9:PRO:HD2	1.56	0.87
3:DX:222:LEU:HD13	3:DX:223:PRO:HD2	1.57	0.87
3:Di:8:VAL:HG12	3:Di:9:PRO:HD2	1.56	0.87
3:Dj:8:VAL:HG12	3:Dj:9:PRO:HD2	1.56	0.87
3:Do:8:VAL:HG12	3:Do:9:PRO:HD2	1.56	0.87
3:EC:222:LEU:HD13	3:EC:223:PRO:HD2	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:82:LEU:HD11	1:A0:211:TYR:HD2	1.37	0.87
1:A6:164:TRP:NE1	1:A6:187:LEU:HD11	1.88	0.87
1:Ag:48:LEU:HD22	1:Ag:130:ILE:HA	1.56	0.87
1:An:48:LEU:HD22	1:An:130:ILE:HA	1.56	0.87
1:BE:121:LEU:HD21	1:BF:207:CYS:H	1.37	0.87
2:CE:58:LEU:HD13	2:CE:94:PHE:HA	1.56	0.87
2:CH:58:LEU:HD13	2:CH:94:PHE:HA	1.56	0.87
2:CT:46:THR:HG21	3:DP:165:ASP:HA	1.55	0.87
2:Cc:58:LEU:HD13	2:Cc:94:PHE:HA	1.56	0.87
2:Ce:46:THR:HG21	3:Df:165:ASP:HA	1.55	0.87
2:Cf:156:SER:HB3	3:Df:51:TYR:HE1	1.39	0.87
2:Cj:46:THR:HG21	3:Dk:165:ASP:HA	1.56	0.87
2:Cj:156:SER:HB3	3:Dj:51:TYR:HE1	1.40	0.87
2:Ck:156:SER:HB3	3:Dk:51:TYR:HE1	1.40	0.87
2:Cq:58:LEU:HD13	2:Cq:94:PHE:HA	1.56	0.87
2:Cx:58:LEU:HD13	2:Cx:94:PHE:HA	1.56	0.87
3:D7:8:VAL:HG12	3:D7:9:PRO:HD2	1.56	0.87
3:DJ:222:LEU:HD13	3:DJ:223:PRO:HD2	1.57	0.87
3:Db:222:LEU:HD13	3:Db:223:PRO:HD2	1.57	0.87
3:EA:222:LEU:HD13	3:EA:223:PRO:HD2	1.57	0.87
1:AQ:121:LEU:HD21	1:AR:207:CYS:H	1.37	0.87
1:AR:48:LEU:HD22	1:AR:130:ILE:HA	1.56	0.87
1:AS:82:LEU:HD11	1:AS:211:TYR:HD2	1.37	0.87
1:AZ:164:TRP:NE1	1:AZ:187:LEU:HD11	1.88	0.87
2:C8:46:THR:HG21	3:D4:165:ASP:HA	1.56	0.87
2:CJ:46:THR:HG21	3:DF:165:ASP:HA	1.56	0.87
2:CJ:156:SER:HB3	3:DJ:51:TYR:HE1	1.40	0.87
2:CN:58:LEU:HD13	2:CN:94:PHE:HA	1.56	0.87
2:CN:156:SER:HB3	3:DN:51:TYR:HE1	1.40	0.87
2:CO:82:PRO:HA	2:CO:193:THR:HB	1.54	0.87
2:CX:58:LEU:HD13	2:CX:94:PHE:HA	1.56	0.87
2:Cm:46:THR:HG21	3:Dn:165:ASP:HA	1.55	0.87
2:Cm:82:PRO:HA	2:Cm:193:THR:HB	1.54	0.87
3:DA:8:VAL:HG12	3:DA:9:PRO:HD2	1.56	0.87
3:DP:222:LEU:HD13	3:DP:223:PRO:HD2	1.57	0.87
3:DW:222:LEU:HD13	3:DW:223:PRO:HD2	1.56	0.87
3:DZ:8:VAL:HG12	3:DZ:9:PRO:HD2	1.56	0.87
3:Dp:8:VAL:HG12	3:Dp:9:PRO:HD2	1.56	0.87
1:AF:48:LEU:HD22	1:AF:130:ILE:HA	1.56	0.87
1:BD:82:LEU:HD11	1:BD:211:TYR:HD2	1.37	0.87
2:C0:58:LEU:HD13	2:C0:94:PHE:HA	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:156:SER:HB3	3:DA:51:TYR:HE1	1.39	0.87
2:CD:82:PRO:HA	2:CD:193:THR:HB	1.54	0.87
2:CK:58:LEU:HD13	2:CK:94:PHE:HA	1.56	0.87
2:CL:156:SER:HB3	3:DL:51:TYR:HE1	1.40	0.87
2:CO:58:LEU:HD13	2:CO:94:PHE:HA	1.56	0.87
2:CP:82:PRO:HA	2:CP:193:THR:HB	1.54	0.87
2:CT:156:SER:HB3	3:DT:51:TYR:HE1	1.40	0.87
2:CW:58:LEU:HD13	2:CW:94:PHE:HA	1.56	0.87
2:Cg:58:LEU:HD13	2:Cg:94:PHE:HA	1.56	0.87
2:Cw:156:SER:HB3	3:ED:51:TYR:HE1	1.40	0.87
3:D1:222:LEU:HD13	3:D1:223:PRO:HD2	1.57	0.87
3:DF:222:LEU:HD13	3:DF:223:PRO:HD2	1.57	0.87
3:DK:8:VAL:HG12	3:DK:9:PRO:HD2	1.56	0.87
1:AS:207:CYS:H	1:Ao:121:LEU:HD21	1.37	0.86
1:Ad:82:LEU:HD11	1:Ad:211:TYR:HD2	1.37	0.86
1:Al:48:LEU:HD22	1:Al:130:ILE:HA	1.56	0.86
1:BA:48:LEU:HD22	1:BA:130:ILE:HA	1.56	0.86
2:C7:156:SER:HB3	3:D7:51:TYR:HE1	1.40	0.86
2:CL:46:THR:HG21	3:DM:165:ASP:HA	1.56	0.86
2:CR:82:PRO:HA	2:CR:193:THR:HB	1.54	0.86
2:Ca:156:SER:HB3	3:Da:51:TYR:HE1	1.40	0.86
2:Cc:156:SER:HB3	3:Dc:51:TYR:HE1	1.40	0.86
2:Ce:156:SER:HB3	3:De:51:TYR:HE1	1.40	0.86
2:Cp:46:THR:HG21	3:Dq:165:ASP:HA	1.55	0.86
2:Cu:156:SER:HB3	3:EB:51:TYR:HE1	1.40	0.86
2:Cv:156:SER:HB3	3:EC:51:TYR:HE1	1.40	0.86
3:DE:222:LEU:HD13	3:DE:223:PRO:HD2	1.57	0.86
3:Dl:8:VAL:HG12	3:Dl:9:PRO:HD2	1.56	0.86
3:Dn:222:LEU:HD13	3:Dn:223:PRO:HD2	1.56	0.86
1:A2:82:LEU:HD11	1:A2:211:TYR:HD2	1.37	0.86
1:A4:48:LEU:HD22	1:A4:130:ILE:HA	1.56	0.86
1:AH:121:LEU:HD21	1:AI:207:CYS:H	1.37	0.86
1:AK:207:CYS:H	1:AO:121:LEU:HD21	1.37	0.86
1:AY:48:LEU:HD22	1:AY:130:ILE:HA	1.56	0.86
1:Ad:121:LEU:HD21	1:Ae:207:CYS:H	1.37	0.86
1:Ah:82:LEU:HD11	1:Ah:211:TYR:HD2	1.37	0.86
1:Am:48:LEU:HD22	1:Am:130:ILE:HA	1.56	0.86
2:C9:82:PRO:HA	2:C9:193:THR:HB	1.54	0.86
2:CR:156:SER:HB3	3:DR:51:TYR:HE1	1.40	0.86
2:Ca:82:PRO:HA	2:Ca:193:THR:HB	1.54	0.86
2:Cl:82:PRO:HA	2:Cl:193:THR:HB	1.54	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:8:VAL:HG12	3:DF:9:PRO:HD2	1.56	0.86
3:DR:222:LEU:HD13	3:DR:223:PRO:HD2	1.57	0.86
3:DT:222:LEU:HD13	3:DT:223:PRO:HD2	1.57	0.86
1:A3:207:CYS:H	1:A7:121:LEU:HD21	1.37	0.86
1:AA:48:LEU:HD22	1:AA:130:ILE:HA	1.56	0.86
1:AC:48:LEU:HD22	1:AC:130:ILE:HA	1.56	0.86
1:AF:82:LEU:HD11	1:AF:211:TYR:HD2	1.37	0.86
1:AI:82:LEU:HD11	1:AI:211:TYR:HD2	1.37	0.86
1:AU:121:LEU:HD21	1:AV:207:CYS:H	1.38	0.86
1:AV:48:LEU:HD22	1:AV:130:ILE:HA	1.56	0.86
1:AV:121:LEU:HD21	1:AW:207:CYS:H	1.37	0.86
3:Dc:8:VAL:HG12	3:Dc:9:PRO:HD2	1.56	0.86
1:A0:102:VAL:HG22	1:A0:199:SER:HB2	1.58	0.86
1:A6:102:VAL:HG22	1:A6:199:SER:HB2	1.58	0.86
1:A7:102:VAL:HG22	1:A7:199:SER:HB2	1.58	0.86
1:AN:102:VAL:HG22	1:AN:199:SER:HB2	1.58	0.86
1:AQ:48:LEU:HD22	1:AQ:130:ILE:HA	1.56	0.86
1:Aj:102:VAL:HG22	1:Aj:199:SER:HB2	1.58	0.86
2:C2:156:SER:HB3	3:D2:51:TYR:HE1	1.40	0.86
2:CC:46:THR:HG21	3:DD:165:ASP:HA	1.56	0.86
2:CD:156:SER:HB3	3:DD:51:TYR:HE1	1.40	0.86
2:CK:82:PRO:HA	2:CK:193:THR:HB	1.54	0.86
2:CO:156:SER:HB3	3:DO:51:TYR:HE1	1.40	0.86
2:CZ:46:THR:HG21	3:D0:165:ASP:HA	1.55	0.86
2:Cb:46:THR:HG21	3:Dc:165:ASP:HA	1.56	0.86
2:Ch:82:PRO:HA	2:Ch:193:THR:HB	1.54	0.86
2:Cj:82:PRO:HA	2:Cj:193:THR:HB	1.54	0.86
2:Cp:82:PRO:HA	2:Cp:193:THR:HB	1.54	0.86
3:DN:8:VAL:HG12	3:DN:9:PRO:HD2	1.56	0.86
3:DS:8:VAL:HG12	3:DS:9:PRO:HD2	1.56	0.86
3:Dm:8:VAL:HG12	3:Dm:9:PRO:HD2	1.56	0.86
1:AA:102:VAL:HG22	1:AA:199:SER:HB2	1.58	0.86
1:AH:102:VAL:HG22	1:AH:199:SER:HB2	1.58	0.86
1:AP:207:CYS:H	1:AS:121:LEU:HD21	1.37	0.86
1:AU:48:LEU:HD22	1:AU:130:ILE:HA	1.56	0.86
1:AU:102:VAL:HG22	1:AU:199:SER:HB2	1.58	0.86
1:BC:102:VAL:HG22	1:BC:199:SER:HB2	1.58	0.86
2:C3:156:SER:HB3	3:D3:51:TYR:HE1	1.40	0.86
2:CU:58:LEU:HD13	2:CU:94:PHE:HA	1.56	0.86
2:CZ:58:LEU:HD13	2:CZ:94:PHE:HA	1.56	0.86
2:Cf:58:LEU:HD13	2:Cf:94:PHE:HA	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D7:222:LEU:HD13	3:D7:223:PRO:HD2	1.56	0.86
3:DJ:8:VAL:HG12	3:DJ:9:PRO:HD2	1.56	0.86
3:DQ:222:LEU:HD13	3:DQ:223:PRO:HD2	1.56	0.86
1:A1:102:VAL:HG22	1:A1:199:SER:HB2	1.58	0.86
1:AL:121:LEU:HD21	1:AM:207:CYS:H	1.37	0.86
1:AP:102:VAL:HG22	1:AP:199:SER:HB2	1.58	0.86
1:AT:102:VAL:HG22	1:AT:199:SER:HB2	1.58	0.86
1:Ak:48:LEU:HD22	1:Ak:130:ILE:HA	1.56	0.86
2:CQ:58:LEU:HD13	2:CQ:94:PHE:HA	1.56	0.86
2:Cl:156:SER:HB3	3:Dl:51:TYR:HE1	1.40	0.86
2:Ct:156:SER:HB3	3:EA:51:TYR:HE1	1.40	0.86
2:Cu:58:LEU:HD13	2:Cu:94:PHE:HA	1.56	0.86
3:D5:8:VAL:HG12	3:D5:9:PRO:HD2	1.56	0.86
3:DB:222:LEU:HD13	3:DB:223:PRO:HD2	1.57	0.86
3:DU:8:VAL:HG12	3:DU:9:PRO:HD2	1.56	0.86
1:AR:102:VAL:HG22	1:AR:199:SER:HB2	1.58	0.86
1:AS:48:LEU:HD22	1:AS:130:ILE:HA	1.56	0.86
1:Aa:157:SER:HB2	3:Dc:24:PRO:HA	1.58	0.86
1:Ae:157:SER:HB2	3:Dg:24:PRO:HA	1.58	0.86
1:Ah:207:CYS:H	1:Al:121:LEU:HD21	1.37	0.86
1:Ai:121:LEU:HD21	1:Aj:207:CYS:H	1.37	0.86
1:Al:102:VAL:HG22	1:Al:199:SER:HB2	1.58	0.86
1:BD:102:VAL:HG22	1:BD:199:SER:HB2	1.58	0.86
2:C0:156:SER:HB3	3:D0:51:TYR:HE1	1.39	0.86
2:C2:58:LEU:HD13	2:C2:94:PHE:HA	1.56	0.86
2:CA:82:PRO:HA	2:CA:193:THR:HB	1.54	0.86
2:Cl:46:THR:HG21	3:DJ:165:ASP:HA	1.56	0.86
2:CP:156:SER:HB3	3:DP:51:TYR:HE1	1.40	0.86
2:CX:46:THR:HG21	3:DY:165:ASP:HA	1.56	0.86
2:CX:156:SER:HB3	3:DX:51:TYR:HE1	1.40	0.86
2:Cb:58:LEU:HD13	2:Cb:94:PHE:HA	1.56	0.86
2:Ch:46:THR:HG21	3:Di:165:ASP:HA	1.56	0.86
2:Cn:58:LEU:HD13	2:Cn:94:PHE:HA	1.56	0.86
2:Co:46:THR:HG21	3:Dp:165:ASP:HA	1.56	0.86
2:Cp:156:SER:HB3	3:Dp:51:TYR:HE1	1.40	0.86
2:Cs:156:SER:HB3	3:Ds:51:TYR:HE1	1.40	0.86
3:D5:222:LEU:HD13	3:D5:223:PRO:HD2	1.56	0.86
3:DI:222:LEU:HD13	3:DI:223:PRO:HD2	1.56	0.86
3:Dc:222:LEU:HD13	3:Dc:223:PRO:HD2	1.57	0.86
3:Df:8:VAL:HG12	3:Df:9:PRO:HD2	1.56	0.86
3:Dk:222:LEU:HD13	3:Dk:223:PRO:HD2	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:157:SER:HB2	3:D1:24:PRO:HA	1.58	0.86
1:A2:187:LEU:HD22	1:A2:188:PRO:CD	2.06	0.86
1:A4:187:LEU:HD22	1:A4:188:PRO:CD	2.06	0.86
1:A6:157:SER:HB2	3:D7:24:PRO:HA	1.58	0.86
1:AL:157:SER:HB2	3:DL:24:PRO:HA	1.58	0.86
1:AZ:102:VAL:HG22	1:AZ:199:SER:HB2	1.58	0.86
1:Aa:121:LEU:HD21	1:Ab:207:CYS:H	1.37	0.86
1:Ab:102:VAL:HG22	1:Ab:199:SER:HB2	1.58	0.86
1:Ad:157:SER:HB2	3:Df:24:PRO:HA	1.58	0.86
1:BA:157:SER:HB2	3:Dp:24:PRO:HA	1.58	0.86
2:C5:156:SER:HB3	3:D5:51:TYR:HE1	1.40	0.86
2:CF:58:LEU:HD13	2:CF:94:PHE:HA	1.56	0.86
2:CV:156:SER:HB3	3:DV:51:TYR:HE1	1.39	0.86
2:Cc:46:THR:HG21	3:Dd:165:ASP:HA	1.56	0.86
2:Cr:58:LEU:HD13	2:Cr:94:PHE:HA	1.56	0.86
3:DD:8:VAL:HG12	3:DD:9:PRO:HD2	1.56	0.86
1:A3:102:VAL:HG22	1:A3:199:SER:HB2	1.58	0.86
1:AB:102:VAL:HG22	1:AB:199:SER:HB2	1.58	0.86
1:AI:48:LEU:HD22	1:AI:130:ILE:HA	1.56	0.86
1:AV:157:SER:HB2	3:DW:24:PRO:HA	1.58	0.86
2:C1:46:THR:HG21	3:D2:165:ASP:HA	1.56	0.86
2:C1:58:LEU:HD13	2:C1:94:PHE:HA	1.56	0.86
2:C9:46:THR:HG21	3:Da:165:ASP:HA	1.56	0.86
2:CG:58:LEU:HD13	2:CG:94:PHE:HA	1.56	0.86
2:CL:58:LEU:HD13	2:CL:94:PHE:HA	1.56	0.86
2:CR:46:THR:HG21	3:DS:165:ASP:HA	1.55	0.86
2:CS:58:LEU:HD13	2:CS:94:PHE:HA	1.56	0.86
2:Cq:156:SER:HB3	3:Dq:51:TYR:HE1	1.40	0.86
2:Ct:58:LEU:HD13	2:Ct:94:PHE:HA	1.56	0.86
2:Cv:46:THR:HG21	3:ED:165:ASP:HA	1.56	0.86
3:DY:222:LEU:HD13	3:DY:223:PRO:HD2	1.56	0.86
1:AD:102:VAL:HG22	1:AD:199:SER:HB2	1.58	0.86
1:AI:157:SER:HB2	3:DI:24:PRO:HA	1.58	0.86
1:AO:48:LEU:HD22	1:AO:130:ILE:HA	1.56	0.86
1:Ae:102:VAL:HG22	1:Ae:199:SER:HB2	1.58	0.86
1:Al:187:LEU:HD22	1:Al:188:PRO:CD	2.06	0.86
1:BD:157:SER:HB2	3:Ds:24:PRO:HA	1.58	0.86
2:C6:73:GLN:HE21	2:C6:73:GLN:HA	1.41	0.86
2:CA:46:THR:HG21	3:DB:165:ASP:HA	1.55	0.86
2:CB:58:LEU:HD13	2:CB:94:PHE:HA	1.56	0.86
2:CP:46:THR:HG21	3:DQ:165:ASP:HA	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:73:GLN:HE21	2:CW:73:GLN:HA	1.41	0.86
2:Cr:46:THR:HG21	3:Ds:165:ASP:HA	1.55	0.86
2:Cx:156:SER:HB3	3:EE:51:TYR:HE1	1.39	0.86
3:DD:222:LEU:HD13	3:DD:223:PRO:HD2	1.57	0.86
3:Dh:222:LEU:HD13	3:Dh:223:PRO:HD2	1.57	0.86
3:Dl:222:LEU:HD13	3:Dl:223:PRO:HD2	1.56	0.86
3:Dp:222:LEU:HD13	3:Dp:223:PRO:HD2	1.56	0.86
3:Ds:222:LEU:HD13	3:Ds:223:PRO:HD2	1.57	0.86
1:A3:187:LEU:HD22	1:A3:188:PRO:CD	2.06	0.85
1:A9:48:LEU:HD22	1:A9:130:ILE:HA	1.56	0.85
1:AD:157:SER:HB2	3:DD:24:PRO:HA	1.58	0.85
1:AF:157:SER:HB2	3:DF:24:PRO:HA	1.58	0.85
1:AG:102:VAL:HG22	1:AG:199:SER:HB2	1.58	0.85
1:AL:187:LEU:HD22	1:AL:188:PRO:CD	2.06	0.85
1:AM:157:SER:HB2	3:DM:24:PRO:HA	1.58	0.85
1:AR:187:LEU:HD22	1:AR:188:PRO:CD	2.06	0.85
1:An:157:SER:HB2	3:Db:24:PRO:HA	1.58	0.85
2:C3:58:LEU:HD13	2:C3:94:PHE:HA	1.56	0.85
2:CA:73:GLN:HE21	2:CA:73:GLN:HA	1.41	0.85
2:CQ:82:PRO:HA	2:CQ:193:THR:HB	1.54	0.85
2:CR:73:GLN:HE21	2:CR:73:GLN:HA	1.41	0.85
2:CV:46:THR:HG21	3:DW:165:ASP:HA	1.56	0.85
2:CY:58:LEU:HD13	2:CY:94:PHE:HA	1.56	0.85
2:Cj:73:GLN:HA	2:Cj:73:GLN:HE21	1.41	0.85
2:Cr:156:SER:HB3	3:Dr:51:TYR:HE1	1.40	0.85
3:DM:222:LEU:HD13	3:DM:223:PRO:HD2	1.57	0.85
3:DX:8:VAL:HG12	3:DX:9:PRO:HD2	1.56	0.85
3:EA:8:VAL:HG12	3:EA:9:PRO:HD2	1.56	0.85
1:A0:187:LEU:HD22	1:A0:188:PRO:CD	2.06	0.85
1:AY:187:LEU:HD22	1:AY:188:PRO:CD	2.06	0.85
1:BE:187:LEU:HD22	1:BE:188:PRO:CD	2.06	0.85
1:BF:157:SER:HB2	3:EB:24:PRO:HA	1.58	0.85
2:C7:58:LEU:HD13	2:C7:94:PHE:HA	1.56	0.85
2:CD:46:THR:HG21	3:DE:165:ASP:HA	1.56	0.85
2:CO:46:THR:HG21	3:DK:165:ASP:HA	1.55	0.85
2:CS:156:SER:HB3	3:DS:51:TYR:HE1	1.39	0.85
2:CY:46:THR:HG21	3:DU:165:ASP:HA	1.55	0.85
2:Cf:46:THR:HG21	3:Dg:165:ASP:HA	1.55	0.85
2:Ci:156:SER:HB3	3:Di:51:TYR:HE1	1.40	0.85
3:D1:8:VAL:HG12	3:D1:9:PRO:HD2	1.56	0.85
1:AA:157:SER:HB2	3:DA:24:PRO:HA	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:102:VAL:HG22	1:AK:199:SER:HB2	1.58	0.85
1:AR:157:SER:HB2	3:DR:24:PRO:HA	1.58	0.85
1:AS:157:SER:HB2	3:DT:24:PRO:HA	1.58	0.85
1:AU:187:LEU:HD22	1:AU:188:PRO:CD	2.06	0.85
1:AZ:157:SER:HB2	3:D0:24:PRO:HA	1.58	0.85
1:Af:187:LEU:HD22	1:Af:188:PRO:CD	2.06	0.85
1:Ag:157:SER:HB2	3:Di:24:PRO:HA	1.58	0.85
1:Aj:187:LEU:HD22	1:Aj:188:PRO:CD	2.06	0.85
1:BH:102:VAL:HG22	1:BH:199:SER:HB2	1.58	0.85
2:C0:73:GLN:HE21	2:C0:73:GLN:HA	1.41	0.85
2:CB:73:GLN:HE21	2:CB:73:GLN:HA	1.41	0.85
2:CG:73:GLN:HE21	2:CG:73:GLN:HA	1.41	0.85
2:Cj:58:LEU:HD13	2:Cj:94:PHE:HA	1.56	0.85
2:Cs:58:LEU:HD13	2:Cs:94:PHE:HA	1.56	0.85
3:D0:222:LEU:HD13	3:D0:223:PRO:HD2	1.56	0.85
3:DO:8:VAL:HG12	3:DO:9:PRO:HD2	1.56	0.85
3:Dm:222:LEU:HD13	3:Dm:223:PRO:HD2	1.56	0.85
3:EC:8:VAL:HG12	3:EC:9:PRO:HD2	1.56	0.85
1:A2:102:VAL:HG22	1:A2:199:SER:HB2	1.58	0.85
1:AK:48:LEU:HD22	1:AK:130:ILE:HA	1.56	0.85
1:AK:187:LEU:HD22	1:AK:188:PRO:CD	2.06	0.85
1:AP:157:SER:HB2	3:DP:24:PRO:HA	1.58	0.85
1:Ai:157:SER:HB2	3:Dk:24:PRO:HA	1.58	0.85
1:Ao:157:SER:HB2	3:DS:24:PRO:HA	1.58	0.85
1:BG:187:LEU:HD22	1:BG:188:PRO:CD	2.06	0.85
1:BI:157:SER:HB2	3:EE:24:PRO:HA	1.58	0.85
2:CI:73:GLN:HA	2:CI:73:GLN:HE21	1.41	0.85
2:CR:58:LEU:HD13	2:CR:94:PHE:HA	1.56	0.85
2:Ch:115:ASN:HA	3:DN:119:LYS:HD2	1.59	0.85
2:Ck:115:ASN:HA	3:Da:119:LYS:HD2	1.59	0.85
2:Cn:115:ASN:HA	3:De:119:LYS:HD2	1.59	0.85
2:Cs:73:GLN:HE21	2:Cs:73:GLN:HA	1.41	0.85
3:Dd:222:LEU:HD13	3:Dd:223:PRO:HD2	1.57	0.85
3:Dg:8:VAL:HG12	3:Dg:9:PRO:HD2	1.56	0.85
1:A5:187:LEU:HD22	1:A5:188:PRO:CD	2.06	0.85
1:A6:187:LEU:HD22	1:A6:188:PRO:CD	2.06	0.85
1:A9:102:VAL:HG22	1:A9:199:SER:HB2	1.58	0.85
1:A9:157:SER:HB2	3:Da:24:PRO:HA	1.58	0.85
1:AH:187:LEU:HD22	1:AH:188:PRO:CD	2.06	0.85
1:AM:102:VAL:HG22	1:AM:199:SER:HB2	1.58	0.85
1:AP:187:LEU:HD22	1:AP:188:PRO:CD	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:157:SER:HB2	3:DY:24:PRO:HA	1.58	0.85
1:AY:157:SER:HB2	3:DZ:24:PRO:HA	1.58	0.85
1:Ab:187:LEU:HD22	1:Ab:188:PRO:CD	2.06	0.85
1:Ac:187:LEU:HD22	1:Ac:188:PRO:CD	2.06	0.85
1:Ah:48:LEU:HD22	1:Ah:130:ILE:HA	1.56	0.85
1:Ah:157:SER:HB2	3:Dj:24:PRO:HA	1.58	0.85
1:BG:102:VAL:HG22	1:BG:199:SER:HB2	1.58	0.85
1:BI:187:LEU:HD22	1:BI:188:PRO:CD	2.06	0.85
2:C1:156:SER:HB3	3:D1:51:TYR:HE1	1.39	0.85
2:C4:226:LEU:HD23	3:D5:126:PRO:HG2	1.59	0.85
2:C9:73:GLN:HE21	2:C9:73:GLN:HA	1.41	0.85
2:CB:156:SER:HB3	3:DB:51:TYR:HE1	1.40	0.85
2:CE:73:GLN:HE21	2:CE:73:GLN:HA	1.41	0.85
2:CN:46:THR:HG21	3:DO:165:ASP:HA	1.56	0.85
2:CO:115:ASN:HA	3:DP:119:LYS:HD2	1.59	0.85
2:CZ:73:GLN:HE21	2:CZ:73:GLN:HA	1.41	0.85
2:Cc:73:GLN:HE21	2:Cc:73:GLN:HA	1.41	0.85
2:Cl:58:LEU:HD13	2:Cl:94:PHE:HA	1.56	0.85
2:Cl:115:ASN:HA	3:D8:119:LYS:HD2	1.59	0.85
2:Cu:73:GLN:HA	2:Cu:73:GLN:HE21	1.41	0.85
2:Cv:73:GLN:HA	2:Cv:73:GLN:HE21	1.41	0.85
3:Dg:222:LEU:HD13	3:Dg:223:PRO:HD2	1.57	0.85
1:A5:102:VAL:HG22	1:A5:199:SER:HB2	1.58	0.85
1:A7:157:SER:HB2	3:D8:24:PRO:HA	1.58	0.85
1:A7:187:LEU:HD22	1:A7:188:PRO:CD	2.06	0.85
1:A8:187:LEU:HD22	1:A8:188:PRO:CD	2.06	0.85
1:A9:130:ILE:HD11	1:A9:135:VAL:HG12	1.59	0.85
1:AJ:130:ILE:HD11	1:AJ:135:VAL:HG12	1.59	0.85
1:AX:130:ILE:HD11	1:AX:135:VAL:HG12	1.59	0.85
1:Aa:102:VAL:HG22	1:Aa:199:SER:HB2	1.58	0.85
1:Ab:157:SER:HB2	3:Dd:24:PRO:HA	1.58	0.85
1:Ag:102:VAL:HG22	1:Ag:199:SER:HB2	1.58	0.85
1:Ag:130:ILE:HD11	1:Ag:135:VAL:HG12	1.59	0.85
1:An:130:ILE:HD11	1:An:135:VAL:HG12	1.59	0.85
1:An:187:LEU:HD22	1:An:188:PRO:CD	2.06	0.85
2:C3:226:LEU:HD23	3:DZ:126:PRO:HG2	1.59	0.85
2:CA:58:LEU:HD13	2:CA:94:PHE:HA	1.56	0.85
2:CF:115:ASN:HA	3:D6:119:LYS:HD2	1.59	0.85
2:CF:156:SER:HB3	3:DF:51:TYR:HE1	1.40	0.85
2:CN:115:ASN:HA	3:D2:119:LYS:HD2	1.59	0.85
2:Cl:46:THR:HG21	3:Dm:165:ASP:HA	1.55	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cn:73:GLN:HE21	2:Cn:73:GLN:HA	1.41	0.85
2:Cp:73:GLN:HE21	2:Cp:73:GLN:HA	1.41	0.85
3:DP:8:VAL:HG12	3:DP:9:PRO:HD2	1.56	0.85
1:AA:187:LEU:HD22	1:AA:188:PRO:CD	2.06	0.85
1:AC:157:SER:HB2	3:DC:24:PRO:HA	1.58	0.85
1:AF:130:ILE:HD11	1:AF:135:VAL:HG12	1.59	0.85
1:AW:102:VAL:HG22	1:AW:199:SER:HB2	1.58	0.85
1:AW:187:LEU:HD22	1:AW:188:PRO:CD	2.06	0.85
1:Aa:187:LEU:HD22	1:Aa:188:PRO:CD	2.06	0.85
1:Ac:157:SER:HB2	3:De:24:PRO:HA	1.58	0.85
1:Ai:130:ILE:HD11	1:Ai:135:VAL:HG12	1.59	0.85
1:BA:130:ILE:HD11	1:BA:135:VAL:HG12	1.59	0.85
2:CK:115:ASN:HA	3:Db:119:LYS:HD2	1.59	0.85
2:CR:226:LEU:HD23	3:DS:126:PRO:HG2	1.59	0.85
2:CT:115:ASN:HA	3:DK:119:LYS:HD2	1.59	0.85
2:CY:115:ASN:HA	3:DZ:119:LYS:HD2	1.59	0.85
2:CZ:156:SER:HB3	3:DZ:51:TYR:HE1	1.40	0.85
2:Cd:115:ASN:HA	3:D4:119:LYS:HD2	1.59	0.85
2:Ce:58:LEU:HD13	2:Ce:94:PHE:HA	1.56	0.85
2:Cg:73:GLN:HE21	2:Cg:73:GLN:HA	1.41	0.85
2:Cp:115:ASN:HA	3:D0:119:LYS:HD2	1.59	0.85
3:D6:222:LEU:HD13	3:D6:223:PRO:HD2	1.56	0.85
3:DO:222:LEU:HD13	3:DO:223:PRO:HD2	1.56	0.85
3:DY:8:VAL:HG12	3:DY:9:PRO:HD2	1.56	0.85
3:Dd:8:VAL:HG12	3:Dd:9:PRO:HD2	1.56	0.85
3:Dh:8:VAL:HG12	3:Dh:9:PRO:HD2	1.56	0.85
1:A4:102:VAL:HG22	1:A4:199:SER:HB2	1.58	0.85
1:A5:157:SER:HB2	3:D6:24:PRO:HA	1.58	0.85
1:AI:102:VAL:HG22	1:AI:199:SER:HB2	1.58	0.85
1:AN:157:SER:HB2	3:DN:24:PRO:HA	1.58	0.85
1:AN:187:LEU:HD22	1:AN:188:PRO:CD	2.06	0.85
1:AQ:187:LEU:HD22	1:AQ:188:PRO:CD	2.06	0.85
1:AR:130:ILE:HD11	1:AR:135:VAL:HG12	1.59	0.85
1:Ac:130:ILE:HD11	1:Ac:135:VAL:HG12	1.59	0.85
1:Al:130:ILE:HD11	1:Al:135:VAL:HG12	1.59	0.85
1:Ao:187:LEU:HD22	1:Ao:188:PRO:CD	2.06	0.85
1:BA:102:VAL:HG22	1:BA:199:SER:HB2	1.58	0.85
1:BF:102:VAL:HG22	1:BF:199:SER:HB2	1.58	0.85
1:BH:187:LEU:HD22	1:BH:188:PRO:CD	2.06	0.85
2:CH:73:GLN:HE21	2:CH:73:GLN:HA	1.41	0.85
2:CN:73:GLN:HE21	2:CN:73:GLN:HA	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:8:VAL:HG12	3:EB:9:PRO:HD2	1.56	0.85
1:AB:157:SER:HB2	3:DB:24:PRO:HA	1.58	0.85
1:AC:187:LEU:HD22	1:AC:188:PRO:CD	2.06	0.85
1:AL:48:LEU:HD22	1:AL:130:ILE:HA	1.56	0.85
1:AM:187:LEU:HD22	1:AM:188:PRO:CD	2.06	0.85
1:AS:187:LEU:HD22	1:AS:188:PRO:CD	2.06	0.85
1:AT:187:LEU:HD22	1:AT:188:PRO:CD	2.06	0.85
1:AY:102:VAL:HG22	1:AY:199:SER:HB2	1.58	0.85
1:Am:102:VAL:HG22	1:Am:199:SER:HB2	1.58	0.85
1:Am:130:ILE:HD11	1:Am:135:VAL:HG12	1.59	0.85
1:BC:48:LEU:HD22	1:BC:130:ILE:HA	1.56	0.85
1:BD:130:ILE:HD11	1:BD:135:VAL:HG12	1.59	0.85
1:BE:157:SER:HB2	3:EA:24:PRO:HA	1.58	0.85
1:BI:102:VAL:HG22	1:BI:199:SER:HB2	1.58	0.85
2:CI:156:SER:HB3	3:DI:51:TYR:HE1	1.40	0.85
2:CJ:226:LEU:HD23	3:DF:126:PRO:HG2	1.59	0.85
2:CM:156:SER:HB3	3:DM:51:TYR:HE1	1.39	0.85
2:CY:156:SER:HB3	3:DY:51:TYR:HE1	1.40	0.85
2:Cn:226:LEU:HD23	3:Dj:126:PRO:HG2	1.59	0.85
2:Cv:115:ASN:HA	3:Dd:119:LYS:HD2	1.59	0.85
1:A4:157:SER:HB2	3:D5:24:PRO:HA	1.58	0.85
1:AC:102:VAL:HG22	1:AC:199:SER:HB2	1.58	0.85
1:AD:130:ILE:HD11	1:AD:135:VAL:HG12	1.59	0.85
1:AJ:102:VAL:HG22	1:AJ:199:SER:HB2	1.58	0.85
1:AT:130:ILE:HD11	1:AT:135:VAL:HG12	1.59	0.85
1:Ak:187:LEU:HD22	1:Ak:188:PRO:CD	2.06	0.85
2:CC:156:SER:HB3	3:DC:51:TYR:HE1	1.40	0.85
2:CI:58:LEU:HD13	2:CI:94:PHE:HA	1.56	0.85
2:CR:115:ASN:HA	3:EE:119:LYS:HD2	1.59	0.85
2:CZ:115:ASN:HA	3:Dq:119:LYS:HD2	1.58	0.85
2:Cg:115:ASN:HA	3:D3:119:LYS:HD2	1.59	0.85
2:Cm:58:LEU:HD13	2:Cm:94:PHE:HA	1.56	0.85
2:Cm:73:GLN:HE21	2:Cm:73:GLN:HA	1.41	0.85
2:Cq:73:GLN:HE21	2:Cq:73:GLN:HA	1.41	0.85
3:D9:8:VAL:HG12	3:D9:9:PRO:HD2	1.56	0.85
1:AD:187:LEU:HD22	1:AD:188:PRO:CD	2.06	0.84
1:AH:48:LEU:HD22	1:AH:130:ILE:HA	1.56	0.84
1:AI:130:ILE:HD11	1:AI:135:VAL:HG12	1.59	0.84
1:AK:130:ILE:HD11	1:AK:135:VAL:HG12	1.59	0.84
1:AL:130:ILE:HD11	1:AL:135:VAL:HG12	1.59	0.84
1:Ah:130:ILE:HD11	1:Ah:135:VAL:HG12	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:130:ILE:HD11	1:BB:135:VAL:HG12	1.59	0.84
1:BC:187:LEU:HD22	1:BC:188:PRO:CD	2.06	0.84
1:BF:187:LEU:HD22	1:BF:188:PRO:CD	2.06	0.84
2:C7:73:GLN:HE21	2:C7:73:GLN:HA	1.41	0.84
2:CO:73:GLN:HE21	2:CO:73:GLN:HA	1.41	0.84
2:CP:73:GLN:HE21	2:CP:73:GLN:HA	1.41	0.84
2:CP:115:ASN:HA	3:D1:119:LYS:HD2	1.59	0.84
2:CU:115:ASN:HA	3:Dg:119:LYS:HD2	1.59	0.84
2:Ca:226:LEU:HD23	3:Db:126:PRO:HG2	1.59	0.84
2:Ch:73:GLN:HE21	2:Ch:73:GLN:HA	1.41	0.84
2:Cl:73:GLN:HA	2:Cl:73:GLN:HE21	1.41	0.84
2:Co:226:LEU:HD23	3:Dp:126:PRO:HG2	1.59	0.84
2:Cr:73:GLN:HE21	2:Cr:73:GLN:HA	1.41	0.84
2:Ct:46:THR:HG21	3:EB:165:ASP:HA	1.55	0.84
3:D8:8:VAL:HG12	3:D8:9:PRO:HD2	1.56	0.84
3:D9:222:LEU:HD13	3:D9:223:PRO:HD2	1.57	0.84
3:DN:222:LEU:HD13	3:DN:223:PRO:HD2	1.56	0.84
3:DZ:222:LEU:HD13	3:DZ:223:PRO:HD2	1.57	0.84
1:A6:130:ILE:HD11	1:A6:135:VAL:HG12	1.59	0.84
1:AB:130:ILE:HD11	1:AB:135:VAL:HG12	1.59	0.84
1:AG:157:SER:HB2	3:DG:24:PRO:HA	1.58	0.84
1:AM:130:ILE:HD11	1:AM:135:VAL:HG12	1.59	0.84
1:Aj:157:SER:HB2	3:Dl:24:PRO:HA	1.58	0.84
1:Am:187:LEU:HD22	1:Am:188:PRO:CD	2.06	0.84
1:BH:157:SER:HB2	3:ED:24:PRO:HA	1.58	0.84
2:C1:73:GLN:HE21	2:C1:73:GLN:HA	1.41	0.84
2:CA:115:ASN:HA	3:DW:119:LYS:HD2	1.59	0.84
2:CA:226:LEU:HD23	3:DB:126:PRO:HG2	1.59	0.84
2:CD:115:ASN:HA	3:D7:119:LYS:HD2	1.59	0.84
2:CK:226:LEU:HD23	3:DL:126:PRO:HG2	1.59	0.84
2:CN:226:LEU:HD23	3:DO:126:PRO:HG2	1.59	0.84
2:CS:115:ASN:HA	3:Dc:119:LYS:HD2	1.58	0.84
2:Cd:73:GLN:HE21	2:Cd:73:GLN:HA	1.41	0.84
3:EB:222:LEU:HD13	3:EB:223:PRO:HD2	1.57	0.84
1:A1:187:LEU:HD22	1:A1:188:PRO:CD	2.06	0.84
1:A8:102:VAL:HG22	1:A8:199:SER:HB2	1.58	0.84
1:AE:130:ILE:HD11	1:AE:135:VAL:HG12	1.59	0.84
1:AM:121:LEU:HD11	1:AN:206:GLY:CA	2.08	0.84
1:AV:102:VAL:HG22	1:AV:199:SER:HB2	1.58	0.84
1:AW:157:SER:HB2	3:DX:24:PRO:HA	1.58	0.84
1:AZ:187:LEU:HD22	1:AZ:188:PRO:CD	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ac:102:VAL:HG22	1:Ac:199:SER:HB2	1.58	0.84
1:Ah:187:LEU:HD22	1:Ah:188:PRO:CD	2.06	0.84
1:Ai:102:VAL:HG22	1:Ai:199:SER:HB2	1.58	0.84
1:BA:187:LEU:HD22	1:BA:188:PRO:CD	2.06	0.84
1:BB:157:SER:HB2	3:Dq:24:PRO:HA	1.58	0.84
1:BG:130:ILE:HD11	1:BG:135:VAL:HG12	1.59	0.84
2:C5:115:ASN:HA	3:DG:119:LYS:HD2	1.59	0.84
2:C5:226:LEU:HD23	3:D6:126:PRO:HG2	1.59	0.84
2:CC:115:ASN:HA	3:Dn:119:LYS:HD2	1.59	0.84
2:CH:46:THR:HG21	3:DI:165:ASP:HA	1.56	0.84
2:CU:73:GLN:HA	2:CU:73:GLN:HE21	1.41	0.84
2:CX:73:GLN:HE21	2:CX:73:GLN:HA	1.41	0.84
2:Cb:73:GLN:HE21	2:Cb:73:GLN:HA	1.41	0.84
2:Cu:115:ASN:HA	3:D5:119:LYS:HD2	1.59	0.84
3:D3:8:VAL:HG12	3:D3:9:PRO:HD2	1.56	0.84
1:AJ:157:SER:HB2	3:DJ:24:PRO:HA	1.58	0.84
1:AV:187:LEU:HD22	1:AV:188:PRO:CD	2.06	0.84
1:Aa:121:LEU:HD11	1:Ab:206:GLY:CA	2.08	0.84
1:Ai:121:LEU:HD11	1:Aj:206:GLY:CA	2.08	0.84
1:Ai:187:LEU:HD22	1:Ai:188:PRO:CD	2.06	0.84
1:Ao:102:VAL:HG22	1:Ao:199:SER:HB2	1.58	0.84
1:BC:157:SER:HB2	3:Dr:24:PRO:HA	1.58	0.84
1:BD:187:LEU:HD22	1:BD:188:PRO:CD	2.06	0.84
1:BF:130:ILE:HD11	1:BF:135:VAL:HG12	1.59	0.84
1:BI:130:ILE:HD11	1:BI:135:VAL:HG12	1.59	0.84
2:C9:115:ASN:HA	3:DI:119:LYS:HD2	1.59	0.84
2:CW:115:ASN:HA	3:DJ:119:LYS:HD2	1.59	0.84
2:Ce:73:GLN:HE21	2:Ce:73:GLN:HA	1.41	0.84
2:Ci:226:LEU:HD23	3:De:126:PRO:HG2	1.59	0.84
2:Cx:226:LEU:HD23	3:EA:126:PRO:HG2	1.59	0.84
1:A1:121:LEU:HD11	1:A2:206:GLY:CA	2.08	0.84
1:A2:121:LEU:HD11	1:AY:206:GLY:CA	2.08	0.84
1:A8:206:GLY:CA	1:Ab:121:LEU:HD11	2.08	0.84
1:AD:121:LEU:HD11	1:AE:206:GLY:CA	2.08	0.84
1:AE:187:LEU:HD22	1:AE:188:PRO:CD	2.06	0.84
1:AF:102:VAL:HG22	1:AF:199:SER:HB2	1.58	0.84
1:AG:130:ILE:HD11	1:AG:135:VAL:HG12	1.59	0.84
1:AO:102:VAL:HG22	1:AO:199:SER:HB2	1.58	0.84
1:AO:187:LEU:HD22	1:AO:188:PRO:CD	2.06	0.84
1:AP:130:ILE:HD11	1:AP:135:VAL:HG12	1.59	0.84
1:AS:130:ILE:HD11	1:AS:135:VAL:HG12	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:121:LEU:HD11	1:AU:206:GLY:CA	2.08	0.84
1:AX:102:VAL:HG22	1:AX:199:SER:HB2	1.58	0.84
1:Ad:121:LEU:HD11	1:Ae:206:GLY:CA	2.08	0.84
2:C2:73:GLN:HE21	2:C2:73:GLN:HA	1.41	0.84
2:C2:226:LEU:HD23	3:D3:126:PRO:HG2	1.59	0.84
2:C4:73:GLN:HA	2:C4:73:GLN:HE21	1.41	0.84
2:C6:156:SER:HB3	3:D6:51:TYR:HE1	1.40	0.84
2:CM:115:ASN:HA	3:Di:119:LYS:HD2	1.59	0.84
2:Cd:226:LEU:HD23	3:D9:126:PRO:HG2	1.59	0.84
2:Ce:226:LEU:HD23	3:Df:126:PRO:HG2	1.59	0.84
2:Ci:73:GLN:HA	2:Ci:73:GLN:HE21	1.41	0.84
2:Cm:115:ASN:HA	3:DD:119:LYS:HD2	1.59	0.84
2:Cx:73:GLN:HE21	2:Cx:73:GLN:HA	1.41	0.84
2:Cx:115:ASN:HA	3:Do:119:LYS:HD2	1.58	0.84
1:AA:130:ILE:HD11	1:AA:135:VAL:HG12	1.59	0.84
1:AH:121:LEU:HD11	1:AI:206:GLY:CA	2.08	0.84
1:AU:121:LEU:HD11	1:AV:206:GLY:CA	2.08	0.84
1:AV:130:ILE:HD11	1:AV:135:VAL:HG12	1.59	0.84
1:Ad:102:VAL:HG22	1:Ad:199:SER:HB2	1.58	0.84
1:Aj:130:ILE:HD11	1:Aj:135:VAL:HG12	1.59	0.84
1:Al:157:SER:HB2	3:Dn:24:PRO:HA	1.58	0.84
1:Am:157:SER:HB2	3:Do:24:PRO:HA	1.58	0.84
1:Ao:130:ILE:HD11	1:Ao:135:VAL:HG12	1.59	0.84
2:C5:73:GLN:HA	2:C5:73:GLN:HE21	1.41	0.84
2:CA:104:VAL:CG1	2:CA:222:VAL:HG22	2.06	0.84
2:CP:226:LEU:HD23	3:DQ:126:PRO:HG2	1.59	0.84
2:CQ:73:GLN:HE21	2:CQ:73:GLN:HA	1.41	0.84
2:CU:156:SER:HB3	3:DU:51:TYR:HE1	1.39	0.84
2:CV:73:GLN:HA	2:CV:73:GLN:HE21	1.41	0.84
2:Ch:156:SER:HB3	3:Dh:51:TYR:HE1	1.39	0.84
2:Co:73:GLN:HE21	2:Co:73:GLN:HA	1.41	0.84
2:Cr:115:ASN:HA	3:DI:119:LYS:HD2	1.59	0.84
1:A1:157:SER:HB2	3:D2:24:PRO:HA	1.58	0.84
1:A2:157:SER:HB2	3:D3:24:PRO:HA	1.58	0.84
1:AE:157:SER:HB2	3:DE:24:PRO:HA	1.58	0.84
1:AN:121:LEU:HD11	1:AO:206:GLY:CA	2.08	0.84
1:AN:130:ILE:HD11	1:AN:135:VAL:HG12	1.59	0.84
1:AT:157:SER:HB2	3:DU:24:PRO:HA	1.58	0.84
1:AW:130:ILE:HD11	1:AW:135:VAL:HG12	1.59	0.84
1:BC:121:LEU:HD11	1:BD:206:GLY:CA	2.08	0.84
2:C6:115:ASN:HA	3:DE:119:LYS:HD2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:73:GLN:HE21	2:CC:73:GLN:HA	1.41	0.84
2:CJ:73:GLN:HA	2:CJ:73:GLN:HE21	1.41	0.84
2:CO:226:LEU:HD23	3:DK:126:PRO:HG2	1.59	0.84
2:Ca:115:ASN:HA	3:DL:119:LYS:HD2	1.59	0.84
2:Cl:226:LEU:HD23	3:Dm:126:PRO:HG2	1.59	0.84
3:D2:8:VAL:HG12	3:D2:9:PRO:HD2	1.56	0.84
3:DI:191:LEU:HD22	3:DI:192:THR:N	1.93	0.84
1:A1:130:ILE:HD11	1:A1:135:VAL:HG12	1.59	0.84
1:AB:121:LEU:HD11	1:AC:206:GLY:CA	2.08	0.84
1:AG:187:LEU:HD22	1:AG:188:PRO:CD	2.06	0.84
1:AI:187:LEU:HD22	1:AI:188:PRO:CD	2.06	0.84
1:AP:121:LEU:HD11	1:AQ:206:GLY:CA	2.08	0.84
1:AP:206:GLY:CA	1:AS:121:LEU:HD11	2.08	0.84
1:Ad:187:LEU:HD22	1:Ad:188:PRO:CD	2.06	0.84
1:Ae:187:LEU:HD22	1:Ae:188:PRO:CD	2.06	0.84
1:BA:121:LEU:HD11	1:BB:206:GLY:CA	2.08	0.84
1:BG:121:LEU:HD11	1:BH:206:GLY:CA	2.08	0.84
1:BH:130:ILE:HD11	1:BH:135:VAL:HG12	1.59	0.84
2:CJ:104:VAL:CG1	2:CJ:222:VAL:HG22	2.06	0.84
2:Cf:73:GLN:HE21	2:Cf:73:GLN:HA	1.41	0.84
3:D4:8:VAL:HG12	3:D4:9:PRO:HD2	1.56	0.84
3:DQ:53:PHE:HE2	3:DQ:205:LEU:HB3	1.43	0.84
3:Dp:53:PHE:HE2	3:Dp:205:LEU:HB3	1.43	0.84
1:A0:130:ILE:HD11	1:A0:135:VAL:HG12	1.59	0.84
1:AA:121:LEU:HD11	1:AB:206:GLY:CA	2.08	0.84
1:AF:187:LEU:HD22	1:AF:188:PRO:CD	2.06	0.84
1:Ae:130:ILE:HD11	1:Ae:135:VAL:HG12	1.59	0.84
1:Af:102:VAL:HG22	1:Af:199:SER:HB2	1.58	0.84
1:Ag:187:LEU:HD22	1:Ag:188:PRO:CD	2.06	0.84
2:C3:104:VAL:CG1	2:C3:222:VAL:HG22	2.06	0.84
2:C7:63:THR:HG21	3:Dm:188:LEU:HD11	1.60	0.84
2:C7:104:VAL:CG1	2:C7:222:VAL:HG22	2.06	0.84
2:C8:73:GLN:HE21	2:C8:73:GLN:HA	1.41	0.84
2:CB:115:ASN:HA	3:Df:119:LYS:HD2	1.59	0.84
2:CE:63:THR:HG21	3:DF:188:LEU:HD11	1.60	0.84
2:Cq:63:THR:HG21	3:DY:188:LEU:HD11	1.60	0.84
2:Cw:73:GLN:HE21	2:Cw:73:GLN:HA	1.41	0.84
2:Cw:104:VAL:CG1	2:Cw:222:VAL:HG22	2.06	0.84
2:Cw:226:LEU:HD23	3:EE:126:PRO:HG2	1.59	0.84
3:DM:53:PHE:HE2	3:DM:205:LEU:HB3	1.43	0.84
3:DW:191:LEU:HD22	3:DW:192:THR:N	1.93	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DY:53:PHE:HE2	3:DY:205:LEU:HB3	1.43	0.84
3:Dh:53:PHE:HE2	3:Dh:205:LEU:HB3	1.43	0.84
3:Di:53:PHE:HE2	3:Di:205:LEU:HB3	1.43	0.84
1:A3:157:SER:HB2	3:D4:24:PRO:HA	1.58	0.84
1:AF:121:LEU:HD11	1:AG:206:GLY:CA	2.08	0.84
1:AG:121:LEU:HD11	1:AH:206:GLY:CA	2.08	0.84
1:AJ:187:LEU:HD22	1:AJ:188:PRO:CD	2.06	0.84
1:AU:130:ILE:HD11	1:AU:135:VAL:HG12	1.59	0.84
1:Ab:130:ILE:HD11	1:Ab:135:VAL:HG12	1.59	0.84
1:BB:102:VAL:HG22	1:BB:199:SER:HB2	1.58	0.84
2:C0:63:THR:HG21	3:DQ:188:LEU:HD11	1.60	0.84
2:C1:115:ASN:HA	3:DO:119:LYS:HD2	1.59	0.84
2:C3:115:ASN:HA	3:DU:119:LYS:HD2	1.59	0.84
2:C6:63:THR:HG21	3:DE:188:LEU:HD11	1.60	0.84
2:C8:156:SER:HB3	3:D8:51:TYR:HE1	1.40	0.84
2:C9:226:LEU:HD23	3:Da:126:PRO:HG2	1.59	0.84
2:CF:73:GLN:HE21	2:CF:73:GLN:HA	1.41	0.84
2:CM:63:THR:HG21	3:Di:188:LEU:HD11	1.60	0.84
2:CQ:115:ASN:HA	3:Dp:119:LYS:HD2	1.59	0.84
2:CW:226:LEU:HD23	3:DX:126:PRO:HG2	1.59	0.84
2:CX:226:LEU:HD23	3:DY:126:PRO:HG2	1.59	0.84
3:DF:53:PHE:HE2	3:DF:205:LEU:HB3	1.43	0.84
3:DH:191:LEU:HD22	3:DH:192:THR:N	1.93	0.84
3:Dn:53:PHE:HE2	3:Dn:205:LEU:HB3	1.43	0.84
3:Dr:191:LEU:HD22	3:Dr:192:THR:N	1.93	0.84
3:EC:53:PHE:HE2	3:EC:205:LEU:HB3	1.43	0.84
1:A9:187:LEU:HD22	1:A9:188:PRO:CD	2.06	0.83
1:AK:157:SER:HB2	3:DK:24:PRO:HA	1.58	0.83
1:Af:157:SER:HB2	3:Dh:24:PRO:HA	1.58	0.83
1:BE:206:GLY:CA	1:BI:121:LEU:HD11	2.08	0.83
2:CB:226:LEU:HD23	3:DC:126:PRO:HG2	1.59	0.83
2:CE:226:LEU:HD23	3:DA:126:PRO:HG2	1.59	0.83
2:CF:120:HIS:NE2	2:CF:205:PRO:HD2	1.93	0.83
2:CG:63:THR:HG21	3:EB:188:LEU:HD11	1.60	0.83
2:CL:115:ASN:HA	3:Dk:119:LYS:HD2	1.59	0.83
2:CL:120:HIS:NE2	2:CL:205:PRO:HD2	1.93	0.83
2:CS:73:GLN:HA	2:CS:73:GLN:HE21	1.41	0.83
2:CX:120:HIS:NE2	2:CX:205:PRO:HD2	1.93	0.83
2:Cg:226:LEU:HD23	3:Dh:126:PRO:HG2	1.59	0.83
2:Cj:115:ASN:HA	3:DM:119:LYS:HD2	1.59	0.83
2:Ck:63:THR:HG21	3:Da:188:LEU:HD11	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:191:LEU:HD22	3:DT:192:THR:N	1.93	0.83
3:DU:53:PHE:HE2	3:DU:205:LEU:HB3	1.43	0.83
3:DX:191:LEU:HD22	3:DX:192:THR:N	1.93	0.83
3:Ds:191:LEU:HD22	3:Ds:192:THR:N	1.93	0.83
1:A3:130:ILE:HD11	1:A3:135:VAL:HG12	1.59	0.83
1:AA:206:GLY:CA	1:AE:121:LEU:HD11	2.08	0.83
1:AB:187:LEU:HD22	1:AB:188:PRO:CD	2.06	0.83
1:AH:83:GLU:HB2	1:AH:212:ARG:HB3	1.61	0.83
1:AN:83:GLU:HB2	1:AN:212:ARG:HB3	1.60	0.83
1:AS:206:GLY:CA	1:Ao:121:LEU:HD11	2.08	0.83
1:AT:206:GLY:CA	1:AX:121:LEU:HD11	2.08	0.83
1:AY:121:LEU:HD11	1:AZ:206:GLY:CA	2.08	0.83
1:Ae:121:LEU:HD11	1:Af:206:GLY:CA	2.08	0.83
1:An:102:VAL:HG22	1:An:199:SER:HB2	1.58	0.83
1:BC:130:ILE:HD11	1:BC:135:VAL:HG12	1.59	0.83
1:BE:121:LEU:HD11	1:BF:206:GLY:CA	2.08	0.83
1:BH:121:LEU:HD11	1:BI:206:GLY:CA	2.08	0.83
2:C1:63:THR:HG21	3:DO:188:LEU:HD11	1.60	0.83
2:C6:15:GLU:HG3	2:C6:29:SER:HB3	1.61	0.83
2:C8:63:THR:HG21	3:D9:188:LEU:HD11	1.60	0.83
2:C8:115:ASN:HA	3:D9:119:LYS:HD2	1.59	0.83
2:C9:15:GLU:HG3	2:C9:29:SER:HB3	1.61	0.83
2:C9:120:HIS:NE2	2:C9:205:PRO:HD2	1.94	0.83
2:CD:73:GLN:HE21	2:CD:73:GLN:HA	1.42	0.83
2:CQ:63:THR:HG21	3:Dp:188:LEU:HD11	1.60	0.83
2:CT:63:THR:HG21	3:DK:188:LEU:HD11	1.60	0.83
2:CY:63:THR:HG21	3:DZ:188:LEU:HD11	1.60	0.83
2:Cc:63:THR:HG21	3:ED:188:LEU:HD11	1.60	0.83
2:Ci:115:ASN:HA	3:Dj:119:LYS:HD2	1.59	0.83
2:Cm:226:LEU:HD23	3:Dn:126:PRO:HG2	1.59	0.83
2:Cp:120:HIS:NE2	2:Cp:205:PRO:HD2	1.94	0.83
2:Cr:63:THR:HG21	3:DI:188:LEU:HD11	1.60	0.83
2:Cr:226:LEU:HD23	3:Ds:126:PRO:HG2	1.59	0.83
3:DC:191:LEU:HD22	3:DC:192:THR:N	1.93	0.83
3:DK:191:LEU:HD22	3:DK:192:THR:N	1.93	0.83
3:DV:191:LEU:HD22	3:DV:192:THR:N	1.93	0.83
3:Dj:53:PHE:HE2	3:Dj:205:LEU:HB3	1.43	0.83
1:A0:121:LEU:HD11	1:A1:206:GLY:CA	2.08	0.83
1:Ak:83:GLU:HB2	1:Ak:212:ARG:HB3	1.61	0.83
1:BB:187:LEU:HD22	1:BB:188:PRO:CD	2.06	0.83
2:CD:15:GLU:HG3	2:CD:29:SER:HB3	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:115:ASN:HA	3:DX:119:LYS:HD2	1.59	0.83
2:CQ:120:HIS:NE2	2:CQ:205:PRO:HD2	1.94	0.83
2:CT:120:HIS:NE2	2:CT:205:PRO:HD2	1.94	0.83
2:CU:63:THR:HG21	3:Dg:188:LEU:HD11	1.60	0.83
2:CU:226:LEU:HD23	3:DV:126:PRO:HG2	1.59	0.83
2:CX:115:ASN:HA	3:Dr:119:LYS:HD2	1.59	0.83
2:CZ:63:THR:HG21	3:Dq:188:LEU:HD11	1.60	0.83
2:Cj:226:LEU:HD23	3:Dk:126:PRO:HG2	1.59	0.83
2:Cm:63:THR:HG21	3:DD:188:LEU:HD11	1.60	0.83
2:Cp:15:GLU:HG3	2:Cp:29:SER:HB3	1.60	0.83
2:Cq:226:LEU:HD23	3:Dr:126:PRO:HG2	1.59	0.83
2:Ct:73:GLN:HA	2:Ct:73:GLN:HE21	1.41	0.83
3:DE:191:LEU:HD22	3:DE:192:THR:N	1.93	0.83
3:DF:191:LEU:HD22	3:DF:192:THR:N	1.93	0.83
3:DL:53:PHE:HE2	3:DL:205:LEU:HB3	1.43	0.83
3:DT:53:PHE:HE2	3:DT:205:LEU:HB3	1.43	0.83
3:DX:53:PHE:HE2	3:DX:205:LEU:HB3	1.43	0.83
3:Df:53:PHE:HE2	3:Df:205:LEU:HB3	1.43	0.83
3:Dn:191:LEU:HD22	3:Dn:192:THR:N	1.93	0.83
3:EE:191:LEU:HD22	3:EE:192:THR:N	1.93	0.83
1:AC:83:GLU:HB2	1:AC:212:ARG:HB3	1.61	0.83
1:AC:130:ILE:HD11	1:AC:135:VAL:HG12	1.59	0.83
1:AQ:121:LEU:HD11	1:AR:206:GLY:CA	2.08	0.83
1:AS:102:VAL:HG22	1:AS:199:SER:HB2	1.58	0.83
1:AX:187:LEU:HD22	1:AX:188:PRO:CD	2.06	0.83
1:AZ:130:ILE:HD11	1:AZ:135:VAL:HG12	1.59	0.83
1:Aa:130:ILE:HD11	1:Aa:135:VAL:HG12	1.59	0.83
1:Aj:83:GLU:HB2	1:Aj:212:ARG:HB3	1.61	0.83
1:Ak:102:VAL:HG22	1:Ak:199:SER:HB2	1.58	0.83
1:Ak:157:SER:HB2	3:Dm:24:PRO:HA	1.58	0.83
2:C4:15:GLU:HG3	2:C4:29:SER:HB3	1.61	0.83
2:C5:15:GLU:HG3	2:C5:29:SER:HB3	1.61	0.83
2:C7:115:ASN:HA	3:Dm:119:LYS:HD2	1.59	0.83
2:CC:15:GLU:HG3	2:CC:29:SER:HB3	1.60	0.83
2:CC:226:LEU:HD23	3:DD:126:PRO:HG2	1.59	0.83
2:CE:115:ASN:HA	3:DF:119:LYS:HD2	1.59	0.83
2:CG:120:HIS:NE2	2:CG:205:PRO:HD2	1.94	0.83
2:CL:73:GLN:HE21	2:CL:73:GLN:HA	1.41	0.83
2:CS:120:HIS:NE2	2:CS:205:PRO:HD2	1.93	0.83
2:CS:226:LEU:HD23	3:DT:126:PRO:HG2	1.59	0.83
2:Ca:73:GLN:HA	2:Ca:73:GLN:HE21	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ci:120:HIS:NE2	2:Ci:205:PRO:HD2	1.93	0.83
2:Cj:120:HIS:NE2	2:Cj:205:PRO:HD2	1.93	0.83
2:Ck:104:VAL:CG1	2:Ck:222:VAL:HG22	2.06	0.83
2:Cn:120:HIS:NE2	2:Cn:205:PRO:HD2	1.93	0.83
3:DE:103:SER:O	3:DE:211:GLY:HA3	1.79	0.83
3:DG:53:PHE:HE2	3:DG:205:LEU:HB3	1.43	0.83
3:Dg:53:PHE:HE2	3:Dg:205:LEU:HB3	1.43	0.83
3:EE:103:SER:O	3:EE:211:GLY:HA3	1.79	0.83
1:A3:70:ARG:O	1:A3:71:LEU:HB2	1.79	0.83
1:A4:121:LEU:HD11	1:A5:206:GLY:CA	2.08	0.83
1:AQ:130:ILE:HD11	1:AQ:135:VAL:HG12	1.59	0.83
1:AR:121:LEU:HD11	1:Ao:206:GLY:CA	2.08	0.83
1:Ae:70:ARG:O	1:Ae:71:LEU:HB2	1.79	0.83
1:Ai:70:ARG:O	1:Ai:71:LEU:HB2	1.79	0.83
1:BE:102:VAL:HG22	1:BE:199:SER:HB2	1.58	0.83
1:BF:13:THR:HB	3:EB:157:ASN:CB	2.09	0.83
2:C0:226:LEU:HD23	3:D1:126:PRO:HG2	1.59	0.83
2:C7:226:LEU:HD23	3:D8:126:PRO:HG2	1.59	0.83
2:CD:120:HIS:NE2	2:CD:205:PRO:HD2	1.93	0.83
2:CF:63:THR:HG21	3:D6:188:LEU:HD11	1.60	0.83
2:CF:226:LEU:HD23	3:DG:126:PRO:HG2	1.59	0.83
2:CK:73:GLN:HA	2:CK:73:GLN:HE21	1.42	0.83
2:CV:120:HIS:NE2	2:CV:205:PRO:HD2	1.93	0.83
2:CX:104:VAL:CG1	2:CX:222:VAL:HG22	2.06	0.83
2:CY:120:HIS:NE2	2:CY:205:PRO:HD2	1.94	0.83
2:Ch:15:GLU:HG3	2:Ch:29:SER:HB3	1.60	0.83
2:Ci:104:VAL:CG1	2:Ci:222:VAL:HG22	2.06	0.83
3:D7:103:SER:O	3:D7:211:GLY:HA3	1.79	0.83
3:DB:103:SER:O	3:DB:211:GLY:HA3	1.79	0.83
3:Da:191:LEU:HD22	3:Da:192:THR:N	1.93	0.83
3:Db:103:SER:O	3:Db:211:GLY:HA3	1.79	0.83
3:Dn:103:SER:O	3:Dn:211:GLY:HA3	1.79	0.83
3:Dq:103:SER:O	3:Dq:211:GLY:HA3	1.79	0.83
1:A0:83:GLU:HB2	1:A0:212:ARG:HB3	1.61	0.83
1:A1:70:ARG:O	1:A1:71:LEU:HB2	1.79	0.83
1:AC:121:LEU:HD11	1:AD:206:GLY:CA	2.08	0.83
1:Aa:206:GLY:CA	1:An:121:LEU:HD11	2.08	0.83
1:Ac:121:LEU:HD11	1:Ad:206:GLY:CA	2.08	0.83
1:Af:130:ILE:HD11	1:Af:135:VAL:HG12	1.59	0.83
1:Ag:13:THR:HB	3:Di:157:ASN:CB	2.09	0.83
1:BG:157:SER:HB2	3:EC:24:PRO:HA	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:115:ASN:HA	3:DQ:119:LYS:HD2	1.59	0.83
2:C3:122:GLY:HA2	2:C3:200:SER:O	1.79	0.83
2:CC:63:THR:HG21	3:Dn:188:LEU:HD11	1.60	0.83
2:CE:122:GLY:HA2	2:CE:200:SER:O	1.79	0.83
2:CG:115:ASN:HA	3:EB:119:LYS:HD2	1.59	0.83
2:CJ:115:ASN:HA	3:DA:119:LYS:HD2	1.59	0.83
2:CR:122:GLY:HA2	2:CR:200:SER:O	1.79	0.83
2:CT:15:GLU:HG3	2:CT:29:SER:HB3	1.61	0.83
2:CV:226:LEU:HD23	3:DW:126:PRO:HG2	1.59	0.83
2:Cb:226:LEU:HD23	3:Dc:126:PRO:HG2	1.59	0.83
2:Cc:226:LEU:HD23	3:Dd:126:PRO:HG2	1.59	0.83
2:Cf:63:THR:HG21	3:DV:188:LEU:HD11	1.60	0.83
2:Cx:122:GLY:HA2	2:Cx:200:SER:O	1.79	0.83
3:D8:191:LEU:HD22	3:D8:192:THR:N	1.93	0.83
3:DG:103:SER:O	3:DG:211:GLY:HA3	1.79	0.83
3:DP:53:PHE:HE2	3:DP:205:LEU:HB3	1.43	0.83
3:DR:103:SER:O	3:DR:211:GLY:HA3	1.79	0.83
3:DY:191:LEU:HD22	3:DY:192:THR:N	1.93	0.83
3:DI:191:LEU:HD22	3:DI:192:THR:N	1.93	0.83
3:Dp:191:LEU:HD22	3:Dp:192:THR:N	1.93	0.83
3:EE:53:PHE:HE2	3:EE:205:LEU:HB3	1.43	0.83
1:A2:70:ARG:O	1:A2:71:LEU:HB2	1.79	0.83
1:A4:130:ILE:HD11	1:A4:135:VAL:HG12	1.59	0.83
1:A6:121:LEU:HD21	1:A7:207:CYS:N	1.94	0.83
1:A7:13:THR:HB	3:D8:157:ASN:CB	2.09	0.83
1:A7:83:GLU:HB2	1:A7:212:ARG:HB3	1.61	0.83
1:AG:83:GLU:HB2	1:AG:212:ARG:HB3	1.60	0.83
1:AK:70:ARG:O	1:AK:71:LEU:HB2	1.79	0.83
1:AL:102:VAL:HG22	1:AL:199:SER:HB2	1.58	0.83
1:AS:83:GLU:HB2	1:AS:212:ARG:HB3	1.60	0.83
1:AV:70:ARG:O	1:AV:71:LEU:HB2	1.79	0.83
1:Ab:70:ARG:O	1:Ab:71:LEU:HB2	1.79	0.83
1:Aj:121:LEU:HD11	1:Ak:206:GLY:CA	2.08	0.83
1:Am:206:GLY:CA	1:BD:121:LEU:HD11	2.08	0.83
1:BF:70:ARG:O	1:BF:71:LEU:HB2	1.79	0.83
1:BF:121:LEU:HD11	1:BG:206:GLY:CA	2.08	0.83
2:C3:73:GLN:HA	2:C3:73:GLN:HE21	1.41	0.83
2:CA:63:THR:HG21	3:DW:188:LEU:HD11	1.60	0.83
2:CA:120:HIS:NE2	2:CA:205:PRO:HD2	1.93	0.83
2:CK:120:HIS:NE2	2:CK:205:PRO:HD2	1.94	0.83
2:CM:73:GLN:HE21	2:CM:73:GLN:HA	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CO:15:GLU:HG3	2:CO:29:SER:HB3	1.61	0.83
2:CQ:122:GLY:HA2	2:CQ:200:SER:O	1.79	0.83
2:Cb:115:ASN:HA	3:DT:119:LYS:HD2	1.59	0.83
2:Cb:120:HIS:NE2	2:Cb:205:PRO:HD2	1.93	0.83
2:Ch:120:HIS:NE2	2:Ch:205:PRO:HD2	1.94	0.83
2:Ch:226:LEU:HD23	3:Di:126:PRO:HG2	1.59	0.83
2:Ck:120:HIS:NE2	2:Ck:205:PRO:HD2	1.93	0.83
2:Cq:122:GLY:HA2	2:Cq:200:SER:O	1.79	0.83
2:Cx:15:GLU:HG3	2:Cx:29:SER:HB3	1.60	0.83
3:D2:191:LEU:HD22	3:D2:192:THR:N	1.93	0.83
3:D3:53:PHE:HE2	3:D3:205:LEU:HB3	1.43	0.83
3:D9:53:PHE:HE2	3:D9:205:LEU:HB3	1.43	0.83
3:DA:53:PHE:HE2	3:DA:205:LEU:HB3	1.43	0.83
3:DA:191:LEU:HD22	3:DA:192:THR:N	1.93	0.83
3:DW:53:PHE:HE2	3:DW:205:LEU:HB3	1.43	0.83
3:DW:103:SER:O	3:DW:211:GLY:HA3	1.79	0.83
3:Dh:191:LEU:HD22	3:Dh:192:THR:N	1.93	0.83
3:EA:53:PHE:HE2	3:EA:205:LEU:HB3	1.43	0.83
3:ED:191:LEU:HD22	3:ED:192:THR:N	1.93	0.83
1:A3:121:LEU:HD11	1:A4:206:GLY:CA	2.08	0.83
1:A8:70:ARG:O	1:A8:71:LEU:HB2	1.79	0.83
1:A8:121:LEU:HD11	1:A9:206:GLY:CA	2.08	0.83
1:A8:121:LEU:HD21	1:A9:207:CYS:N	1.94	0.83
1:A8:157:SER:HB2	3:D9:24:PRO:HA	1.58	0.83
1:AE:70:ARG:O	1:AE:71:LEU:HB2	1.79	0.83
1:AK:207:CYS:N	1:AO:121:LEU:HD21	1.94	0.83
1:AL:121:LEU:HD21	1:AM:207:CYS:N	1.94	0.83
1:AQ:102:VAL:HG22	1:AQ:199:SER:HB2	1.58	0.83
1:AQ:157:SER:HB2	3:DQ:24:PRO:HA	1.58	0.83
1:AU:83:GLU:HB2	1:AU:212:ARG:HB3	1.60	0.83
1:AU:121:LEU:HD21	1:AV:207:CYS:N	1.94	0.83
1:AW:121:LEU:HD11	1:AX:206:GLY:CA	2.08	0.83
1:Aa:207:CYS:N	1:An:121:LEU:HD21	1.94	0.83
1:Ae:83:GLU:HB2	1:Ae:212:ARG:HB3	1.60	0.83
1:An:70:ARG:O	1:An:71:LEU:HB2	1.79	0.83
1:BG:83:GLU:HB2	1:BG:212:ARG:HB3	1.60	0.83
2:C1:226:LEU:HD23	3:D2:126:PRO:HG2	1.59	0.83
2:C3:120:HIS:NE2	2:C3:205:PRO:HD2	1.94	0.83
2:C5:63:THR:HG21	3:DG:188:LEU:HD11	1.60	0.83
2:C5:120:HIS:NE2	2:C5:205:PRO:HD2	1.94	0.83
2:C8:15:GLU:HG3	2:C8:29:SER:HB3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:120:HIS:NE2	2:CB:205:PRO:HD2	1.94	0.83
2:CH:122:GLY:HA2	2:CH:200:SER:O	1.79	0.83
2:CJ:120:HIS:NE2	2:CJ:205:PRO:HD2	1.94	0.83
2:CU:120:HIS:NE2	2:CU:205:PRO:HD2	1.94	0.83
2:CZ:226:LEU:HD23	3:D0:126:PRO:HG2	1.59	0.83
2:Ca:122:GLY:HA2	2:Ca:200:SER:O	1.79	0.83
2:Cc:120:HIS:NE2	2:Cc:205:PRO:HD2	1.94	0.83
2:Co:15:GLU:HG3	2:Co:29:SER:HB3	1.61	0.83
2:Cp:226:LEU:HD23	3:Dq:126:PRO:HG2	1.59	0.83
2:Cs:120:HIS:NE2	2:Cs:205:PRO:HD2	1.94	0.83
2:Ct:115:ASN:HA	3:DH:119:LYS:HD2	1.59	0.83
3:D5:53:PHE:HE2	3:D5:205:LEU:HB3	1.43	0.83
3:DA:103:SER:O	3:DA:211:GLY:HA3	1.79	0.83
3:DI:53:PHE:HE2	3:DI:205:LEU:HB3	1.43	0.83
3:DK:53:PHE:HE2	3:DK:205:LEU:HB3	1.43	0.83
3:DN:103:SER:O	3:DN:211:GLY:HA3	1.79	0.83
3:DO:103:SER:O	3:DO:211:GLY:HA3	1.79	0.83
3:DU:103:SER:O	3:DU:211:GLY:HA3	1.79	0.83
3:Dd:103:SER:O	3:Dd:211:GLY:HA3	1.79	0.83
3:Dk:53:PHE:HE2	3:Dk:205:LEU:HB3	1.43	0.83
3:EA:191:LEU:HD22	3:EA:192:THR:N	1.93	0.83
3:EB:103:SER:O	3:EB:211:GLY:HA3	1.79	0.83
1:A3:207:CYS:N	1:A7:121:LEU:HD21	1.94	0.83
1:A4:121:LEU:HD21	1:A5:207:CYS:N	1.94	0.83
1:A5:121:LEU:HD21	1:A6:207:CYS:N	1.94	0.83
1:AE:102:VAL:HG22	1:AE:199:SER:HB2	1.58	0.83
1:AH:130:ILE:HD11	1:AH:135:VAL:HG12	1.59	0.83
1:AJ:83:GLU:HB2	1:AJ:212:ARG:HB3	1.60	0.83
1:AU:157:SER:HB2	3:DV:24:PRO:HA	1.58	0.83
1:AX:13:THR:HB	3:DY:157:ASN:CB	2.09	0.83
1:AY:130:ILE:HD11	1:AY:135:VAL:HG12	1.59	0.83
1:Ab:83:GLU:HB2	1:Ab:212:ARG:HB3	1.61	0.83
1:Ac:207:CYS:N	1:Ag:121:LEU:HD21	1.94	0.83
1:Af:83:GLU:HB2	1:Af:212:ARG:HB3	1.60	0.83
1:Al:13:THR:HB	3:Dn:157:ASN:CB	2.09	0.83
1:BB:83:GLU:HB2	1:BB:212:ARG:HB3	1.61	0.83
2:C1:15:GLU:HG3	2:C1:29:SER:HB3	1.61	0.83
2:C2:63:THR:HG21	3:Dh:188:LEU:HD11	1.60	0.83
2:CC:120:HIS:NE2	2:CC:205:PRO:HD2	1.94	0.83
2:CM:120:HIS:NE2	2:CM:205:PRO:HD2	1.94	0.83
2:CN:15:GLU:HG3	2:CN:29:SER:HB3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:226:LEU:HD23	3:DU:126:PRO:HG2	1.59	0.83
2:Cf:120:HIS:NE2	2:Cf:205:PRO:HD2	1.93	0.83
2:Cq:115:ASN:HA	3:DY:119:LYS:HD2	1.59	0.83
3:D0:191:LEU:HD22	3:D0:192:THR:N	1.93	0.83
3:D2:103:SER:O	3:D2:211:GLY:HA3	1.79	0.83
3:D3:103:SER:O	3:D3:211:GLY:HA3	1.79	0.83
3:D4:191:LEU:HD22	3:D4:192:THR:N	1.93	0.83
3:D5:103:SER:O	3:D5:211:GLY:HA3	1.79	0.83
3:DK:103:SER:O	3:DK:211:GLY:HA3	1.79	0.83
3:DZ:53:PHE:HE2	3:DZ:205:LEU:HB3	1.43	0.83
3:De:103:SER:O	3:De:211:GLY:HA3	1.79	0.83
3:Do:103:SER:O	3:Do:211:GLY:HA3	1.79	0.83
1:A0:13:THR:HB	3:D1:157:ASN:CB	2.09	0.83
1:A3:121:LEU:HD21	1:A4:207:CYS:N	1.94	0.83
1:A7:130:ILE:HD11	1:A7:135:VAL:HG12	1.59	0.83
1:AA:70:ARG:O	1:AA:71:LEU:HB2	1.79	0.83
1:AJ:70:ARG:O	1:AJ:71:LEU:HB2	1.79	0.83
1:AK:121:LEU:HD11	1:AL:206:GLY:CA	2.08	0.83
1:AL:121:LEU:HD11	1:AM:206:GLY:CA	2.08	0.83
1:AP:83:GLU:HB2	1:AP:212:ARG:HB3	1.61	0.83
1:AT:83:GLU:HB2	1:AT:212:ARG:HB3	1.61	0.83
1:Ac:70:ARG:O	1:Ac:71:LEU:HB2	1.79	0.83
1:Af:70:ARG:O	1:Af:71:LEU:HB2	1.79	0.83
1:Ak:121:LEU:HD21	1:Al:207:CYS:N	1.94	0.83
1:BB:121:LEU:HD11	1:BC:206:GLY:CA	2.08	0.83
1:BC:83:GLU:HB2	1:BC:212:ARG:HB3	1.60	0.83
1:BC:121:LEU:HD21	1:BD:207:CYS:N	1.94	0.83
1:BH:13:THR:HB	3:ED:157:ASN:CB	2.09	0.83
2:C4:63:THR:HG21	3:EC:188:LEU:HD11	1.60	0.83
2:C6:226:LEU:HD23	3:D7:126:PRO:HG2	1.59	0.83
2:CD:226:LEU:HD23	3:DE:126:PRO:HG2	1.59	0.83
2:CE:120:HIS:NE2	2:CE:205:PRO:HD2	1.93	0.83
2:CH:63:THR:HG21	3:Ds:188:LEU:HD11	1.60	0.83
2:CH:226:LEU:HD23	3:DI:126:PRO:HG2	1.59	0.83
2:CO:63:THR:HG21	3:DP:188:LEU:HD11	1.60	0.83
2:CV:115:ASN:HA	3:DB:119:LYS:HD2	1.59	0.83
2:CZ:120:HIS:NE2	2:CZ:205:PRO:HD2	1.93	0.83
2:Ci:15:GLU:HG3	2:Ci:29:SER:HB3	1.61	0.83
2:Cj:122:GLY:HA2	2:Cj:200:SER:O	1.79	0.83
2:Ck:15:GLU:HG3	2:Ck:29:SER:HB3	1.61	0.83
2:Cm:120:HIS:NE2	2:Cm:205:PRO:HD2	1.94	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Co:115:ASN:HA	3:DR:119:LYS:HD2	1.59	0.83
2:Cr:120:HIS:NE2	2:Cr:205:PRO:HD2	1.93	0.83
2:Cu:120:HIS:NE2	2:Cu:205:PRO:HD2	1.94	0.83
2:Cv:63:THR:HG21	3:Dd:188:LEU:HD11	1.60	0.83
2:Cw:15:GLU:HG3	2:Cw:29:SER:HB3	1.61	0.83
2:Cw:115:ASN:HA	3:DS:119:LYS:HD2	1.58	0.83
3:D6:191:LEU:HD22	3:D6:192:THR:N	1.93	0.83
3:DB:191:LEU:HD22	3:DB:192:THR:N	1.93	0.83
3:DC:103:SER:O	3:DC:211:GLY:HA3	1.79	0.83
3:DJ:191:LEU:HD22	3:DJ:192:THR:N	1.93	0.83
3:DP:191:LEU:HD22	3:DP:192:THR:N	1.93	0.83
3:DI:103:SER:O	3:DI:211:GLY:HA3	1.79	0.83
3:Dq:191:LEU:HD22	3:Dq:192:THR:N	1.93	0.83
1:A0:206:GLY:CA	1:AZ:121:LEU:HD11	2.08	0.82
1:A6:83:GLU:HB2	1:A6:212:ARG:HB3	1.60	0.82
1:A6:121:LEU:HD11	1:A7:206:GLY:CA	2.08	0.82
1:A8:130:ILE:HD11	1:A8:135:VAL:HG12	1.59	0.82
1:A9:121:LEU:HD11	1:An:206:GLY:CA	2.08	0.82
1:AI:83:GLU:HB2	1:AI:212:ARG:HB3	1.61	0.82
1:AK:206:GLY:CA	1:AO:121:LEU:HD11	2.08	0.82
1:AN:13:THR:HB	3:DN:157:ASN:CB	2.09	0.82
1:AO:83:GLU:HB2	1:AO:212:ARG:HB3	1.61	0.82
1:AQ:138:MET:HG3	3:DR:219:PRO:HB2	1.61	0.82
1:AR:70:ARG:O	1:AR:71:LEU:HB2	1.79	0.82
1:AT:70:ARG:O	1:AT:71:LEU:HB2	1.79	0.82
1:Ad:70:ARG:O	1:Ad:71:LEU:HB2	1.79	0.82
1:Ah:102:VAL:HG22	1:Ah:199:SER:HB2	1.58	0.82
1:Ah:206:GLY:CA	1:Al:121:LEU:HD11	2.08	0.82
1:Aj:13:THR:HB	3:DI:157:ASN:CB	2.09	0.82
1:Ak:121:LEU:HD11	1:Al:206:GLY:CA	2.08	0.82
1:Ak:130:ILE:HD11	1:Ak:135:VAL:HG12	1.59	0.82
1:BF:83:GLU:HB2	1:BF:212:ARG:HB3	1.60	0.82
2:C3:63:THR:HG21	3:DU:188:LEU:HD11	1.60	0.82
2:C4:115:ASN:HA	3:EC:119:LYS:HD2	1.59	0.82
2:C4:122:GLY:HA2	2:C4:200:SER:O	1.79	0.82
2:CB:122:GLY:HA2	2:CB:200:SER:O	1.79	0.82
2:CG:15:GLU:HG3	2:CG:29:SER:HB3	1.61	0.82
2:CH:115:ASN:HA	3:Ds:119:LYS:HD2	1.59	0.82
2:CL:63:THR:HG21	3:Dk:188:LEU:HD11	1.60	0.82
2:CP:120:HIS:NE2	2:CP:205:PRO:HD2	1.93	0.82
2:CS:122:GLY:HA2	2:CS:200:SER:O	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ca:120:HIS:NE2	2:Ca:205:PRO:HD2	1.94	0.82
2:Cb:63:THR:HG21	3:DT:188:LEU:HD11	1.60	0.82
2:Cd:15:GLU:HG3	2:Cd:29:SER:HB3	1.60	0.82
2:Cf:226:LEU:HD23	3:Dg:126:PRO:HG2	1.59	0.82
2:Cs:122:GLY:HA2	2:Cs:200:SER:O	1.79	0.82
2:Ct:120:HIS:NE2	2:Ct:205:PRO:HD2	1.93	0.82
3:D1:191:LEU:HD22	3:D1:192:THR:N	1.93	0.82
3:DL:103:SER:O	3:DL:211:GLY:HA3	1.79	0.82
3:DN:191:LEU:HD22	3:DN:192:THR:N	1.93	0.82
3:DQ:103:SER:O	3:DQ:211:GLY:HA3	1.79	0.82
3:DZ:191:LEU:HD22	3:DZ:192:THR:N	1.93	0.82
3:EC:191:LEU:HD22	3:EC:192:THR:N	1.93	0.82
1:A3:206:GLY:CA	1:A7:121:LEU:HD11	2.08	0.82
1:A5:13:THR:HB	3:D6:157:ASN:CB	2.09	0.82
1:AO:130:ILE:HD11	1:AO:135:VAL:HG12	1.59	0.82
1:AO:157:SER:HB2	3:DO:24:PRO:HA	1.58	0.82
1:AQ:83:GLU:HB2	1:AQ:212:ARG:HB3	1.61	0.82
1:AQ:121:LEU:HD21	1:AR:207:CYS:N	1.94	0.82
1:AR:13:THR:HB	3:DR:157:ASN:CB	2.09	0.82
1:Ac:206:GLY:CA	1:Ag:121:LEU:HD11	2.08	0.82
1:Ah:121:LEU:HD21	1:Ai:207:CYS:N	1.94	0.82
1:Am:70:ARG:O	1:Am:71:LEU:HB2	1.79	0.82
1:BE:70:ARG:O	1:BE:71:LEU:HB2	1.79	0.82
1:BE:130:ILE:HD11	1:BE:135:VAL:HG12	1.59	0.82
2:C9:63:THR:HG21	3:DI:188:LEU:HD11	1.60	0.82
2:CF:104:VAL:CG1	2:CF:222:VAL:HG22	2.06	0.82
2:CG:122:GLY:HA2	2:CG:200:SER:O	1.79	0.82
2:CT:73:GLN:HA	2:CT:73:GLN:HE21	1.41	0.82
2:Cg:122:GLY:HA2	2:Cg:200:SER:O	1.79	0.82
2:Cm:122:GLY:HA2	2:Cm:200:SER:O	1.79	0.82
2:Cs:115:ASN:HA	3:EA:119:LYS:HD2	1.59	0.82
2:Cs:226:LEU:HD23	3:Do:126:PRO:HG2	1.59	0.82
2:Cu:63:THR:HG21	3:D5:188:LEU:HD11	1.60	0.82
3:D3:191:LEU:HD22	3:D3:192:THR:N	1.93	0.82
3:DN:53:PHE:HE2	3:DN:205:LEU:HB3	1.43	0.82
3:DO:191:LEU:HD22	3:DO:192:THR:N	1.93	0.82
3:De:53:PHE:HE2	3:De:205:LEU:HB3	1.43	0.82
3:Dm:53:PHE:HE2	3:Dm:205:LEU:HB3	1.43	0.82
3:Ds:103:SER:O	3:Ds:211:GLY:HA3	1.79	0.82
3:EB:191:LEU:HD22	3:EB:192:THR:N	1.93	0.82
1:A2:121:LEU:HD21	1:AY:207:CYS:N	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:121:LEU:HD21	1:An:207:CYS:N	1.94	0.82
1:AH:157:SER:HB2	3:DH:24:PRO:HA	1.58	0.82
1:AI:121:LEU:HD11	1:AJ:206:GLY:CA	2.08	0.82
1:AM:70:ARG:O	1:AM:71:LEU:HB2	1.79	0.82
1:AQ:70:ARG:O	1:AQ:71:LEU:HB2	1.79	0.82
1:AY:13:THR:HB	3:DZ:157:ASN:CB	2.09	0.82
1:Ac:121:LEU:HD21	1:Ad:207:CYS:N	1.94	0.82
1:Af:121:LEU:HD21	1:Ag:207:CYS:N	1.94	0.82
1:Ah:75:CYS:HB3	1:Ah:218:MET:SD	2.20	0.82
1:Ah:83:GLU:HB2	1:Ah:212:ARG:HB3	1.60	0.82
1:Ai:83:GLU:HB2	1:Ai:212:ARG:HB3	1.60	0.82
1:Am:83:GLU:HB2	1:Am:212:ARG:HB3	1.61	0.82
1:Am:121:LEU:HD11	1:BA:206:GLY:CA	2.08	0.82
2:C1:120:HIS:NE2	2:C1:205:PRO:HD2	1.93	0.82
2:C2:115:ASN:HA	3:Dh:119:LYS:HD2	1.59	0.82
2:C5:122:GLY:HA2	2:C5:200:SER:O	1.79	0.82
2:C8:120:HIS:NE2	2:C8:205:PRO:HD2	1.93	0.82
2:C8:226:LEU:HD23	3:D4:126:PRO:HG2	1.59	0.82
2:CB:63:THR:HG21	3:Df:188:LEU:HD11	1.60	0.82
2:CI:63:THR:HG21	3:DX:188:LEU:HD11	1.60	0.82
2:CI:226:LEU:HD23	3:DJ:126:PRO:HG2	1.59	0.82
2:CK:122:GLY:HA2	2:CK:200:SER:O	1.79	0.82
2:CL:122:GLY:HA2	2:CL:200:SER:O	1.79	0.82
2:CP:122:GLY:HA2	2:CP:200:SER:O	1.79	0.82
2:CY:73:GLN:HE21	2:CY:73:GLN:HA	1.41	0.82
2:Ca:15:GLU:HG3	2:Ca:29:SER:HB3	1.60	0.82
2:Ch:63:THR:HG21	3:DN:188:LEU:HD11	1.60	0.82
2:Cq:15:GLU:HG3	2:Cq:29:SER:HB3	1.61	0.82
2:Cq:120:HIS:NE2	2:Cq:205:PRO:HD2	1.93	0.82
2:Ct:63:THR:HG21	3:DH:188:LEU:HD11	1.60	0.82
2:Cu:122:GLY:HA2	2:Cu:200:SER:O	1.79	0.82
2:Cv:226:LEU:HD23	3:ED:126:PRO:HG2	1.59	0.82
3:D0:103:SER:O	3:D0:211:GLY:HA3	1.79	0.82
3:D9:103:SER:O	3:D9:211:GLY:HA3	1.79	0.82
3:DE:53:PHE:HE2	3:DE:205:LEU:HB3	1.43	0.82
3:DJ:53:PHE:HE2	3:DJ:205:LEU:HB3	1.43	0.82
3:DP:103:SER:O	3:DP:211:GLY:HA3	1.79	0.82
3:DX:103:SER:O	3:DX:211:GLY:HA3	1.79	0.82
3:Da:53:PHE:HE2	3:Da:205:LEU:HB3	1.43	0.82
3:De:191:LEU:HD22	3:De:192:THR:N	1.93	0.82
1:A2:130:ILE:HD11	1:A2:135:VAL:HG12	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:121:LEU:HD21	1:AE:207:CYS:N	1.94	0.82
1:AE:138:MET:HG3	3:DA:219:PRO:HB2	1.62	0.82
1:AJ:75:CYS:HB3	1:AJ:218:MET:SD	2.20	0.82
1:AK:121:LEU:HD21	1:AL:207:CYS:N	1.94	0.82
1:AM:121:LEU:HD21	1:AN:207:CYS:N	1.94	0.82
1:Ag:138:MET:HG3	3:De:219:PRO:HB2	1.61	0.82
1:Am:75:CYS:HB3	1:Am:218:MET:SD	2.20	0.82
1:BB:70:ARG:O	1:BB:71:LEU:HB2	1.79	0.82
2:C1:122:GLY:HA2	2:C1:200:SER:O	1.79	0.82
2:C4:120:HIS:NE2	2:C4:205:PRO:HD2	1.93	0.82
2:C7:122:GLY:HA2	2:C7:200:SER:O	1.79	0.82
2:CI:120:HIS:NE2	2:CI:205:PRO:HD2	1.94	0.82
2:CJ:15:GLU:HG3	2:CJ:29:SER:HB3	1.60	0.82
2:CM:15:GLU:HG3	2:CM:29:SER:HB3	1.60	0.82
2:CQ:226:LEU:HD23	3:DR:126:PRO:HG2	1.59	0.82
2:CW:120:HIS:NE2	2:CW:205:PRO:HD2	1.93	0.82
2:Cc:122:GLY:HA2	2:Cc:200:SER:O	1.79	0.82
2:Cf:122:GLY:HA2	2:Cf:200:SER:O	1.79	0.82
2:Ck:73:GLN:HA	2:Ck:73:GLN:HE21	1.41	0.82
2:Co:63:THR:HG21	3:DR:188:LEU:HD11	1.60	0.82
2:Co:122:GLY:HA2	2:Co:200:SER:O	1.79	0.82
3:D1:53:PHE:HE2	3:D1:205:LEU:HB3	1.43	0.82
3:D5:191:LEU:HD22	3:D5:192:THR:N	1.93	0.82
3:D8:103:SER:O	3:D8:211:GLY:HA3	1.79	0.82
3:DI:103:SER:O	3:DI:211:GLY:HA3	1.79	0.82
3:DJ:103:SER:O	3:DJ:211:GLY:HA3	1.79	0.82
3:DL:191:LEU:HD22	3:DL:192:THR:N	1.93	0.82
3:DV:53:PHE:HE2	3:DV:205:LEU:HB3	1.43	0.82
3:Dc:191:LEU:HD22	3:Dc:192:THR:N	1.93	0.82
3:Di:191:LEU:HD22	3:Di:192:THR:N	1.93	0.82
3:Dm:191:LEU:HD22	3:Dm:192:THR:N	1.93	0.82
3:EA:103:SER:O	3:EA:211:GLY:HA3	1.79	0.82
1:A1:83:GLU:HB2	1:A1:212:ARG:HB3	1.60	0.82
1:A1:121:LEU:HD21	1:A2:207:CYS:N	1.94	0.82
1:A5:130:ILE:HD11	1:A5:135:VAL:HG12	1.59	0.82
1:A8:75:CYS:HB3	1:A8:218:MET:SD	2.20	0.82
1:AA:75:CYS:HB3	1:AA:218:MET:SD	2.20	0.82
1:AL:83:GLU:HB2	1:AL:212:ARG:HB3	1.60	0.82
1:AR:75:CYS:HB3	1:AR:218:MET:SD	2.20	0.82
1:AX:138:MET:HG3	3:DU:219:PRO:HB2	1.61	0.82
1:Ae:121:LEU:HD21	1:Af:207:CYS:N	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:138:MET:HG3	3:Dn:219:PRO:HB2	1.62	0.82
2:CB:15:GLU:HG3	2:CB:29:SER:HB3	1.60	0.82
2:CG:226:LEU:HD23	3:DH:126:PRO:HG2	1.59	0.82
2:CJ:122:GLY:HA2	2:CJ:200:SER:O	1.79	0.82
2:CR:120:HIS:NE2	2:CR:205:PRO:HD2	1.94	0.82
2:CW:63:THR:HG21	3:DJ:188:LEU:HD11	1.60	0.82
2:Cd:63:THR:HG21	3:D4:188:LEU:HD11	1.60	0.82
2:Cl:15:GLU:HG3	2:Cl:29:SER:HB3	1.61	0.82
2:Cs:63:THR:HG21	3:EA:188:LEU:HD11	1.60	0.82
3:D6:103:SER:O	3:D6:211:GLY:HA3	1.79	0.82
3:DM:103:SER:O	3:DM:211:GLY:HA3	1.79	0.82
3:DS:103:SER:O	3:DS:211:GLY:HA3	1.79	0.82
3:Dk:103:SER:O	3:Dk:211:GLY:HA3	1.79	0.82
3:Do:191:LEU:HD22	3:Do:192:THR:N	1.93	0.82
1:A1:115:THR:HG23	1:A1:133:LEU:H	1.45	0.82
1:A2:138:MET:HG3	3:DZ:219:PRO:HB2	1.62	0.82
1:A5:75:CYS:HB3	1:A5:218:MET:SD	2.20	0.82
1:A5:121:LEU:HD11	1:A6:206:GLY:CA	2.08	0.82
1:AF:138:MET:HG3	3:DG:219:PRO:HB2	1.62	0.82
1:AK:13:THR:HB	3:DK:157:ASN:CB	2.09	0.82
1:AL:75:CYS:HB3	1:AL:218:MET:SD	2.20	0.82
1:AN:70:ARG:O	1:AN:71:LEU:HB2	1.79	0.82
1:AO:13:THR:HB	3:DO:157:ASN:CB	2.09	0.82
1:AO:75:CYS:HB3	1:AO:218:MET:SD	2.20	0.82
1:AY:75:CYS:HB3	1:AY:218:MET:SD	2.20	0.82
1:AY:121:LEU:HD21	1:AZ:207:CYS:N	1.94	0.82
1:Aa:121:LEU:HD21	1:Ab:207:CYS:N	1.94	0.82
1:Ab:115:THR:HG23	1:Ab:133:LEU:H	1.45	0.82
1:Ac:75:CYS:HB3	1:Ac:218:MET:SD	2.20	0.82
1:Ac:115:THR:HG23	1:Ac:133:LEU:H	1.45	0.82
1:Ag:75:CYS:HB3	1:Ag:218:MET:SD	2.20	0.82
1:BG:13:THR:HB	3:EC:157:ASN:CB	2.09	0.82
2:C0:15:GLU:HG3	2:C0:29:SER:HB3	1.60	0.82
2:CF:15:GLU:HG3	2:CF:29:SER:HB3	1.61	0.82
2:CM:226:LEU:HD23	3:DN:126:PRO:HG2	1.59	0.82
2:CO:120:HIS:NE2	2:CO:205:PRO:HD2	1.94	0.82
2:CV:15:GLU:HG3	2:CV:29:SER:HB3	1.61	0.82
2:Ca:104:VAL:CG1	2:Ca:222:VAL:HG22	2.06	0.82
2:Cd:122:GLY:HA2	2:Cd:200:SER:O	1.79	0.82
2:Ce:15:GLU:HG3	2:Ce:29:SER:HB3	1.61	0.82
2:Ce:115:ASN:HA	3:DC:119:LYS:HD2	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ce:120:HIS:NE2	2:Ce:205:PRO:HD2	1.93	0.82
2:Ce:122:GLY:HA2	2:Ce:200:SER:O	1.79	0.82
2:Cf:115:ASN:HA	3:DV:119:LYS:HD2	1.59	0.82
2:Ck:226:LEU:HD23	3:Dl:126:PRO:HG2	1.59	0.82
2:Co:120:HIS:NE2	2:Co:205:PRO:HD2	1.93	0.82
2:Cr:104:VAL:CG1	2:Cr:222:VAL:HG22	2.06	0.82
2:Cr:122:GLY:HA2	2:Cr:200:SER:O	1.79	0.82
2:Cw:63:THR:HG21	3:DS:188:LEU:HD11	1.60	0.82
3:D7:191:LEU:HD22	3:D7:192:THR:N	1.93	0.82
3:DC:53:PHE:HE2	3:DC:205:LEU:HB3	1.43	0.82
3:DD:53:PHE:HE2	3:DD:205:LEU:HB3	1.43	0.82
3:DD:191:LEU:HD22	3:DD:192:THR:N	1.93	0.82
3:DG:191:LEU:HD22	3:DG:192:THR:N	1.93	0.82
3:DQ:191:LEU:HD22	3:DQ:192:THR:N	1.93	0.82
3:Da:103:SER:O	3:Da:211:GLY:HA3	1.79	0.82
3:Dj:191:LEU:HD22	3:Dj:192:THR:N	1.93	0.82
3:Dk:191:LEU:HD22	3:Dk:192:THR:N	1.93	0.82
3:Do:53:PHE:HE2	3:Do:205:LEU:HB3	1.43	0.82
3:Ds:53:PHE:HE2	3:Ds:205:LEU:HB3	1.43	0.82
1:A9:138:MET:HG3	3:Db:219:PRO:HB2	1.61	0.82
1:AF:206:GLY:CA	1:AJ:121:LEU:HD11	2.08	0.82
1:AH:115:THR:HG23	1:AH:133:LEU:H	1.45	0.82
1:AP:121:LEU:HD21	1:AQ:207:CYS:N	1.94	0.82
1:AR:83:GLU:HB2	1:AR:212:ARG:HB3	1.61	0.82
1:AR:121:LEU:HD21	1:Ao:207:CYS:N	1.94	0.82
1:AV:121:LEU:HD11	1:AW:206:GLY:CA	2.08	0.82
1:AX:70:ARG:O	1:AX:71:LEU:HB2	1.79	0.82
1:Af:13:THR:HB	3:Dh:157:ASN:CB	2.09	0.82
1:Af:75:CYS:HB3	1:Af:218:MET:SD	2.20	0.82
1:Ah:121:LEU:HD11	1:Ai:206:GLY:CA	2.08	0.82
1:Ak:13:THR:HB	3:Dm:157:ASN:CB	2.09	0.82
1:Ak:75:CYS:HB3	1:Ak:218:MET:SD	2.20	0.82
1:An:75:CYS:HB3	1:An:218:MET:SD	2.20	0.82
1:BF:75:CYS:HB3	1:BF:218:MET:SD	2.20	0.82
1:BF:121:LEU:HD21	1:BG:207:CYS:N	1.94	0.82
1:BF:138:MET:HG3	3:EC:219:PRO:HB2	1.61	0.82
1:BH:138:MET:HG3	3:EE:219:PRO:HB2	1.61	0.82
2:CH:120:HIS:NE2	2:CH:205:PRO:HD2	1.93	0.82
2:CR:13:ARG:O	2:CR:27:GLN:HA	1.80	0.82
2:CS:15:GLU:HG3	2:CS:29:SER:HB3	1.61	0.82
2:Cd:120:HIS:NE2	2:Cd:205:PRO:HD2	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ce:104:VAL:CG1	2:Ce:222:VAL:HG22	2.06	0.82
2:Ct:122:GLY:HA2	2:Ct:200:SER:O	1.79	0.82
3:DH:53:PHE:HE2	3:DH:205:LEU:HB3	1.43	0.82
3:DR:191:LEU:HD22	3:DR:192:THR:N	1.93	0.82
3:DU:191:LEU:HD22	3:DU:192:THR:N	1.93	0.82
3:DY:103:SER:O	3:DY:211:GLY:HA3	1.79	0.82
3:Dh:103:SER:O	3:Dh:211:GLY:HA3	1.79	0.82
3:Dr:103:SER:O	3:Dr:211:GLY:HA3	1.79	0.82
3:ED:103:SER:O	3:ED:211:GLY:HA3	1.79	0.82
1:A3:138:MET:HG3	3:D5:219:PRO:HB2	1.62	0.82
1:A4:138:MET:HG3	3:D6:219:PRO:HB2	1.62	0.82
1:A7:70:ARG:O	1:A7:71:LEU:HB2	1.79	0.82
1:A9:75:CYS:HB3	1:A9:218:MET:SD	2.20	0.82
1:AC:121:LEU:HD21	1:AD:207:CYS:N	1.94	0.82
1:AE:83:GLU:HB2	1:AE:212:ARG:HB3	1.61	0.82
1:AG:70:ARG:O	1:AG:71:LEU:HB2	1.79	0.82
1:AU:115:THR:HG23	1:AU:133:LEU:H	1.45	0.82
1:AV:83:GLU:HB2	1:AV:212:ARG:HB3	1.60	0.82
1:AW:138:MET:HG3	3:DY:219:PRO:HB2	1.61	0.82
1:AZ:83:GLU:HB2	1:AZ:212:ARG:HB3	1.60	0.82
1:AZ:115:THR:HG23	1:AZ:133:LEU:H	1.45	0.82
1:Ad:75:CYS:HB3	1:Ad:218:MET:SD	2.20	0.82
1:Ae:115:THR:HG23	1:Ae:133:LEU:H	1.45	0.82
1:Ai:13:THR:HB	3:Dk:157:ASN:CB	2.09	0.82
1:Ao:75:CYS:HB3	1:Ao:218:MET:SD	2.20	0.82
1:Ao:83:GLU:HB2	1:Ao:212:ARG:HB3	1.61	0.82
1:BA:121:LEU:HD21	1:BB:207:CYS:N	1.94	0.82
1:BI:138:MET:HG3	3:EA:219:PRO:HB2	1.61	0.82
2:C0:120:HIS:NE2	2:C0:205:PRO:HD2	1.93	0.82
2:C1:104:VAL:CG1	2:C1:222:VAL:HG22	2.06	0.82
2:C5:104:VAL:CG1	2:C5:222:VAL:HG22	2.06	0.82
2:CC:122:GLY:HA2	2:CC:200:SER:O	1.79	0.82
2:CJ:13:ARG:O	2:CJ:27:GLN:HA	1.80	0.82
2:CK:13:ARG:O	2:CK:27:GLN:HA	1.80	0.82
2:CL:13:ARG:O	2:CL:27:GLN:HA	1.80	0.82
2:CN:13:ARG:O	2:CN:27:GLN:HA	1.80	0.82
2:CN:63:THR:HG21	3:D2:188:LEU:HD11	1.60	0.82
2:CO:122:GLY:HA2	2:CO:200:SER:O	1.79	0.82
2:CP:15:GLU:HG3	2:CP:29:SER:HB3	1.61	0.82
2:CW:122:GLY:HA2	2:CW:200:SER:O	1.79	0.82
2:CX:63:THR:HG21	3:Dr:188:LEU:HD11	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CZ:13:ARG:O	2:CZ:27:GLN:HA	1.80	0.82
2:Ce:63:THR:HG21	3:DC:188:LEU:HD11	1.60	0.82
2:Ci:122:GLY:HA2	2:Ci:200:SER:O	1.79	0.82
2:Cu:226:LEU:HD23	3:EC:126:PRO:HG2	1.59	0.82
3:DF:103:SER:O	3:DF:211:GLY:HA3	1.79	0.82
3:DO:53:PHE:HE2	3:DO:205:LEU:HB3	1.43	0.82
3:DZ:103:SER:O	3:DZ:211:GLY:HA3	1.79	0.82
3:EB:53:PHE:HE2	3:EB:205:LEU:HB3	1.43	0.82
1:A4:70:ARG:O	1:A4:71:LEU:HB2	1.79	0.82
1:A4:75:CYS:HB3	1:A4:218:MET:SD	2.20	0.82
1:AA:13:THR:HB	3:DA:157:ASN:CB	2.09	0.82
1:AF:13:THR:HB	3:DF:157:ASN:CB	2.09	0.82
1:AH:121:LEU:HD21	1:AI:207:CYS:N	1.94	0.82
1:AM:13:THR:HB	3:DM:157:ASN:CB	2.09	0.82
1:AS:70:ARG:O	1:AS:71:LEU:HB2	1.79	0.82
1:AV:115:THR:HG23	1:AV:133:LEU:H	1.45	0.82
1:AZ:75:CYS:HB3	1:AZ:218:MET:SD	2.20	0.82
1:Aj:121:LEU:HD21	1:Ak:207:CYS:N	1.94	0.82
1:BH:75:CYS:HB3	1:BH:218:MET:SD	2.20	0.82
2:C2:15:GLU:HG3	2:C2:29:SER:HB3	1.60	0.82
2:C6:13:ARG:O	2:C6:27:GLN:HA	1.80	0.82
2:CA:13:ARG:O	2:CA:27:GLN:HA	1.80	0.82
2:CJ:63:THR:HG21	3:DA:188:LEU:HD11	1.60	0.82
2:CO:156:SER:HB3	3:DO:51:TYR:CE1	2.15	0.82
2:CT:13:ARG:O	2:CT:27:GLN:HA	1.80	0.82
2:CT:122:GLY:HA2	2:CT:200:SER:O	1.79	0.82
2:CY:122:GLY:HA2	2:CY:200:SER:O	1.79	0.82
2:CZ:122:GLY:HA2	2:CZ:200:SER:O	1.79	0.82
2:Ce:13:ARG:O	2:Ce:27:GLN:HA	1.80	0.82
2:Cg:120:HIS:NE2	2:Cg:205:PRO:HD2	1.93	0.82
2:Cj:63:THR:HG21	3:DM:188:LEU:HD11	1.60	0.82
2:Cp:63:THR:HG21	3:D0:188:LEU:HD11	1.60	0.82
2:Ct:104:VAL:CG1	2:Ct:222:VAL:HG22	2.06	0.82
2:Ct:226:LEU:HD23	3:EB:126:PRO:HG2	1.59	0.82
2:Cv:15:GLU:HG3	2:Cv:29:SER:HB3	1.60	0.82
2:Cw:122:GLY:HA2	2:Cw:200:SER:O	1.79	0.82
2:Cx:120:HIS:NE2	2:Cx:205:PRO:HD2	1.94	0.82
3:DD:103:SER:O	3:DD:211:GLY:HA3	1.79	0.82
3:DS:191:LEU:HD22	3:DS:192:THR:N	1.93	0.82
3:Db:191:LEU:HD22	3:Db:192:THR:N	1.93	0.82
3:EC:103:SER:O	3:EC:211:GLY:HA3	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:53:PHE:HE2	3:ED:205:LEU:HB3	1.43	0.82
1:A3:75:CYS:HB3	1:A3:218:MET:SD	2.20	0.82
1:A7:75:CYS:HB3	1:A7:218:MET:SD	2.20	0.82
1:A8:207:CYS:N	1:Ab:121:LEU:HD21	1.94	0.82
1:AI:75:CYS:HB3	1:AI:218:MET:SD	2.20	0.82
1:AT:13:THR:HB	3:DU:157:ASN:CB	2.09	0.82
1:AW:75:CYS:HB3	1:AW:218:MET:SD	2.20	0.82
1:AX:83:GLU:HB2	1:AX:212:ARG:HB3	1.61	0.82
1:AY:115:THR:HG23	1:AY:133:LEU:H	1.45	0.82
1:Aa:75:CYS:HB3	1:Aa:218:MET:SD	2.20	0.82
1:Ad:121:LEU:HD21	1:Ae:207:CYS:N	1.94	0.82
1:Ae:138:MET:HG3	3:Dh:219:PRO:HB2	1.61	0.82
1:Af:121:LEU:HD11	1:Ag:206:GLY:CA	2.08	0.82
1:Al:83:GLU:HB2	1:Al:212:ARG:HB3	1.61	0.82
1:BD:83:GLU:HB2	1:BD:212:ARG:HB3	1.60	0.82
2:C5:13:ARG:O	2:C5:27:GLN:HA	1.80	0.82
2:C6:120:HIS:NE2	2:C6:205:PRO:HD2	1.94	0.82
2:C6:122:GLY:HA2	2:C6:200:SER:O	1.79	0.82
2:C7:15:GLU:HG3	2:C7:29:SER:HB3	1.61	0.82
2:C9:156:SER:HB3	3:D9:51:TYR:CE1	2.15	0.82
2:CA:122:GLY:HA2	2:CA:200:SER:O	1.79	0.82
2:CK:104:VAL:CG1	2:CK:222:VAL:HG22	2.06	0.82
2:CL:156:SER:HB3	3:DL:51:TYR:CE1	2.15	0.82
2:CM:156:SER:HB3	3:DM:51:TYR:CE1	2.15	0.82
2:CU:122:GLY:HA2	2:CU:200:SER:O	1.79	0.82
2:Cd:13:ARG:O	2:Cd:27:GLN:HA	1.80	0.82
2:Cg:63:THR:HG21	3:D3:188:LEU:HD11	1.60	0.82
2:Ck:156:SER:HB3	3:Dk:51:TYR:CE1	2.15	0.82
2:Cp:104:VAL:CG1	2:Cp:222:VAL:HG22	2.06	0.82
2:Cs:15:GLU:HG3	2:Cs:29:SER:HB3	1.61	0.82
2:Ct:13:ARG:O	2:Ct:27:GLN:HA	1.80	0.82
2:Cw:120:HIS:NE2	2:Cw:205:PRO:HD2	1.94	0.82
3:Db:1:ALA:HB2	3:Dd:21:ASN:OD1	1.80	0.82
3:Dj:103:SER:O	3:Dj:211:GLY:HA3	1.79	0.82
3:Dp:103:SER:O	3:Dp:211:GLY:HA3	1.79	0.82
3:Dq:53:PHE:HE2	3:Dq:205:LEU:HB3	1.43	0.82
1:A6:13:THR:HB	3:D7:157:ASN:CB	2.09	0.81
1:AD:75:CYS:HB3	1:AD:218:MET:SD	2.20	0.81
1:AD:83:GLU:HB2	1:AD:212:ARG:HB3	1.61	0.81
1:AJ:115:THR:HG23	1:AJ:133:LEU:H	1.45	0.81
1:AL:138:MET:HG3	3:DM:219:PRO:HB2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:207:CYS:N	1:AS:121:LEU:HD21	1.94	0.81
1:AS:207:CYS:N	1:Ao:121:LEU:HD21	1.94	0.81
1:AV:75:CYS:HB3	1:AV:218:MET:SD	2.20	0.81
1:Aa:13:THR:HB	3:Dc:157:ASN:CB	2.09	0.81
1:Ah:70:ARG:O	1:Ah:71:LEU:HB2	1.79	0.81
1:Ah:207:CYS:N	1:Al:121:LEU:HD21	1.94	0.81
1:Am:121:LEU:HD21	1:BA:207:CYS:N	1.94	0.81
1:BG:75:CYS:HB3	1:BG:218:MET:SD	2.20	0.81
1:BG:121:LEU:HD21	1:BH:207:CYS:N	1.94	0.81
1:BH:121:LEU:HD21	1:BI:207:CYS:N	1.94	0.81
2:C7:120:HIS:NE2	2:C7:205:PRO:HD2	1.94	0.81
2:CI:13:ARG:O	2:CI:27:GLN:HA	1.80	0.81
2:CL:226:LEU:HD23	3:DM:126:PRO:HG2	1.59	0.81
2:CM:122:GLY:HA2	2:CM:200:SER:O	1.79	0.81
2:CP:13:ARG:O	2:CP:27:GLN:HA	1.80	0.81
2:CR:63:THR:HG21	3:EE:188:LEU:HD11	1.60	0.81
2:CV:13:ARG:O	2:CV:27:GLN:HA	1.80	0.81
2:CV:122:GLY:HA2	2:CV:200:SER:O	1.79	0.81
2:CW:13:ARG:O	2:CW:27:GLN:HA	1.80	0.81
2:Ca:13:ARG:O	2:Ca:27:GLN:HA	1.80	0.81
2:Cb:122:GLY:HA2	2:Cb:200:SER:O	1.79	0.81
2:Ck:13:ARG:O	2:Ck:27:GLN:HA	1.80	0.81
2:Cl:13:ARG:O	2:Cl:27:GLN:HA	1.80	0.81
2:Cl:120:HIS:NE2	2:Cl:205:PRO:HD2	1.93	0.81
2:Cl:122:GLY:HA2	2:Cl:200:SER:O	1.79	0.81
2:Cn:13:ARG:O	2:Cn:27:GLN:HA	1.80	0.81
2:Cv:122:GLY:HA2	2:Cv:200:SER:O	1.79	0.81
3:D0:1:ALA:HB2	3:D2:21:ASN:OD1	1.80	0.81
3:DK:1:ALA:HB2	3:DM:21:ASN:OD1	1.80	0.81
3:DP:1:ALA:HB2	3:DR:21:ASN:OD1	1.80	0.81
3:DV:21:ASN:OD1	3:DY:1:ALA:HB2	1.80	0.81
3:Da:1:ALA:HB2	3:Dc:21:ASN:OD1	1.80	0.81
3:Db:53:PHE:HE2	3:Db:205:LEU:HB3	1.43	0.81
3:Dc:103:SER:O	3:Dc:211:GLY:HA3	1.79	0.81
3:De:1:ALA:HB2	3:Dg:21:ASN:OD1	1.80	0.81
3:Df:1:ALA:HB2	3:Dh:21:ASN:OD1	1.80	0.81
3:Dg:1:ALA:HB2	3:Di:21:ASN:OD1	1.80	0.81
3:Dg:103:SER:O	3:Dg:211:GLY:HA3	1.79	0.81
3:Dl:1:ALA:HB2	3:Dn:21:ASN:OD1	1.80	0.81
3:Dr:53:PHE:HE2	3:Dr:205:LEU:HB3	1.43	0.81
1:A4:83:GLU:HB2	1:A4:212:ARG:HB3	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:70:ARG:O	1:AH:71:LEU:HB2	1.79	0.81
1:AH:75:CYS:HB3	1:AH:218:MET:SD	2.20	0.81
1:AK:83:GLU:HB2	1:AK:212:ARG:HB3	1.60	0.81
1:AP:75:CYS:HB3	1:AP:218:MET:SD	2.20	0.81
1:AT:115:THR:HG23	1:AT:133:LEU:H	1.45	0.81
1:Ab:13:THR:HB	3:Dd:157:ASN:CB	2.09	0.81
1:Ac:138:MET:HG3	3:Df:219:PRO:HB2	1.62	0.81
1:Ad:83:GLU:HB2	1:Ad:212:ARG:HB3	1.60	0.81
1:Ad:130:ILE:HD11	1:Ad:135:VAL:HG12	1.59	0.81
1:Ai:115:THR:HG23	1:Ai:133:LEU:H	1.45	0.81
1:Al:70:ARG:O	1:Al:71:LEU:HB2	1.79	0.81
1:Al:75:CYS:HB3	1:Al:218:MET:SD	2.20	0.81
1:BC:115:THR:HG23	1:BC:133:LEU:H	1.45	0.81
1:BE:115:THR:HG23	1:BE:133:LEU:H	1.45	0.81
1:BE:207:CYS:N	1:BI:121:LEU:HD21	1.94	0.81
2:C2:13:ARG:O	2:C2:27:GLN:HA	1.80	0.81
2:C2:122:GLY:HA2	2:C2:200:SER:O	1.79	0.81
2:C8:122:GLY:HA2	2:C8:200:SER:O	1.79	0.81
2:CI:122:GLY:HA2	2:CI:200:SER:O	1.79	0.81
2:CM:13:ARG:O	2:CM:27:GLN:HA	1.80	0.81
2:CO:13:ARG:O	2:CO:27:GLN:HA	1.80	0.81
2:CS:13:ARG:O	2:CS:27:GLN:HA	1.80	0.81
2:CU:15:GLU:HG3	2:CU:29:SER:HB3	1.61	0.81
2:CW:15:GLU:HG3	2:CW:29:SER:HB3	1.61	0.81
2:Cc:15:GLU:HG3	2:Cc:29:SER:HB3	1.60	0.81
2:Cc:115:ASN:HA	3:ED:119:LYS:HD2	1.59	0.81
2:CI:63:THR:HG21	3:Dj:188:LEU:HD11	1.60	0.81
2:Cm:15:GLU:HG3	2:Cm:29:SER:HB3	1.61	0.81
2:Cm:156:SER:HB3	3:Dm:51:TYR:CE1	2.15	0.81
2:Cv:120:HIS:NE2	2:Cv:205:PRO:HD2	1.94	0.81
2:Cx:156:SER:HB3	3:EE:51:TYR:CE1	2.15	0.81
3:D1:103:SER:O	3:D1:211:GLY:HA3	1.79	0.81
3:D2:53:PHE:HE2	3:D2:205:LEU:HB3	1.43	0.81
3:D9:21:ASN:OD1	3:Dc:1:ALA:HB2	1.80	0.81
3:D9:191:LEU:HD22	3:D9:192:THR:N	1.93	0.81
3:DB:53:PHE:HE2	3:DB:205:LEU:HB3	1.43	0.81
3:DD:63:GLU:HG2	3:DD:201:LYS:HD3	1.62	0.81
3:DM:191:LEU:HD22	3:DM:192:THR:N	1.93	0.81
1:A0:207:CYS:N	1:AZ:121:LEU:HD21	1.94	0.81
1:A1:75:CYS:HB3	1:A1:218:MET:SD	2.20	0.81
1:A2:75:CYS:HB3	1:A2:218:MET:SD	2.20	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:83:GLU:HB2	1:A2:212:ARG:HB3	1.61	0.81
1:A7:115:THR:HG23	1:A7:133:LEU:H	1.45	0.81
1:A8:83:GLU:HB2	1:A8:212:ARG:HB3	1.61	0.81
1:A9:83:GLU:HB2	1:A9:212:ARG:HB3	1.61	0.81
1:AA:207:CYS:N	1:AE:121:LEU:HD21	1.94	0.81
1:AC:70:ARG:O	1:AC:71:LEU:HB2	1.79	0.81
1:AE:75:CYS:HB3	1:AE:218:MET:SD	2.20	0.81
1:AF:115:THR:HG23	1:AF:133:LEU:H	1.45	0.81
1:AL:115:THR:HG23	1:AL:133:LEU:H	1.45	0.81
1:AN:75:CYS:HB3	1:AN:218:MET:SD	2.20	0.81
1:AN:121:LEU:HD21	1:AO:207:CYS:N	1.94	0.81
1:AP:115:THR:HG23	1:AP:133:LEU:H	1.45	0.81
1:AQ:13:THR:HB	3:DQ:157:ASN:CB	2.09	0.81
1:AQ:75:CYS:HB3	1:AQ:218:MET:SD	2.20	0.81
1:AU:13:THR:HB	3:DV:157:ASN:CB	2.09	0.81
1:AU:75:CYS:HB3	1:AU:218:MET:SD	2.20	0.81
1:AW:70:ARG:O	1:AW:71:LEU:HB2	1.79	0.81
1:AW:83:GLU:HB2	1:AW:212:ARG:HB3	1.61	0.81
1:AX:75:CYS:HB3	1:AX:218:MET:SD	2.20	0.81
1:Aa:115:THR:HG23	1:Aa:133:LEU:H	1.45	0.81
1:Ab:75:CYS:HB3	1:Ab:218:MET:SD	2.20	0.81
1:Ad:115:THR:HG23	1:Ad:133:LEU:H	1.45	0.81
1:Ai:138:MET:HG3	3:DI:219:PRO:HB2	1.61	0.81
1:Ak:70:ARG:O	1:Ak:71:LEU:HB2	1.79	0.81
1:Ak:115:THR:HG23	1:Ak:133:LEU:H	1.45	0.81
1:BA:138:MET:HG3	3:Dq:219:PRO:HB2	1.62	0.81
1:BB:138:MET:HG3	3:Dr:219:PRO:HB2	1.62	0.81
1:BC:13:THR:HB	3:Dr:157:ASN:CB	2.09	0.81
1:BE:75:CYS:HB3	1:BE:218:MET:SD	2.20	0.81
1:BE:121:LEU:HD21	1:BF:207:CYS:N	1.94	0.81
1:BG:138:MET:HG3	3:ED:219:PRO:HB2	1.61	0.81
1:BI:70:ARG:O	1:BI:71:LEU:HB2	1.79	0.81
1:BI:115:THR:HG23	1:BI:133:LEU:H	1.45	0.81
2:C1:156:SER:HB3	3:D1:51:TYR:CE1	2.15	0.81
2:C4:13:ARG:O	2:C4:27:GLN:HA	1.80	0.81
2:C8:156:SER:HB3	3:D8:51:TYR:CE1	2.15	0.81
2:C9:122:GLY:HA2	2:C9:200:SER:O	1.79	0.81
2:CB:13:ARG:O	2:CB:27:GLN:HA	1.80	0.81
2:CE:15:GLU:HG3	2:CE:29:SER:HB3	1.61	0.81
2:CE:156:SER:HB3	3:DE:51:TYR:CE1	2.15	0.81
2:CK:15:GLU:HG3	2:CK:29:SER:HB3	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CQ:156:SER:HB3	3:DQ:51:TYR:CE1	2.15	0.81
2:CS:156:SER:HB3	3:DS:51:TYR:CE1	2.15	0.81
2:CT:156:SER:HB3	3:DT:51:TYR:CE1	2.15	0.81
2:CV:63:THR:HG21	3:DB:188:LEU:HD11	1.60	0.81
2:CV:156:SER:HB3	3:DV:51:TYR:CE1	2.15	0.81
2:CZ:15:GLU:HG3	2:CZ:29:SER:HB3	1.61	0.81
2:Ce:156:SER:HB3	3:De:51:TYR:CE1	2.15	0.81
2:Cf:13:ARG:O	2:Cf:27:GLN:HA	1.80	0.81
2:Ch:156:SER:HB3	3:Dh:51:TYR:CE1	2.15	0.81
2:Cl:156:SER:HB3	3:Dl:51:TYR:CE1	2.15	0.81
2:Cn:122:GLY:HA2	2:Cn:200:SER:O	1.79	0.81
2:Cr:15:GLU:HG3	2:Cr:29:SER:HB3	1.61	0.81
2:Cs:13:ARG:O	2:Cs:27:GLN:HA	1.80	0.81
2:Ct:156:SER:HB3	3:EA:51:TYR:CE1	2.15	0.81
2:Cx:13:ARG:O	2:Cx:27:GLN:HA	1.80	0.81
3:D0:21:ASN:OD1	3:D3:1:ALA:HB2	1.80	0.81
3:D0:53:PHE:HE2	3:D0:205:LEU:HB3	1.43	0.81
3:D1:1:ALA:HB2	3:D3:21:ASN:OD1	1.80	0.81
3:D4:21:ASN:OD1	3:D7:1:ALA:HB2	1.80	0.81
3:D5:1:ALA:HB2	3:D7:21:ASN:OD1	1.80	0.81
3:D5:21:ASN:OD1	3:D8:1:ALA:HB2	1.80	0.81
3:DB:63:GLU:HG2	3:DB:201:LYS:HD3	1.63	0.81
3:DC:63:GLU:HG2	3:DC:201:LYS:HD3	1.63	0.81
3:DH:103:SER:O	3:DH:211:GLY:HA3	1.79	0.81
3:DN:63:GLU:HG2	3:DN:201:LYS:HD3	1.62	0.81
3:DQ:1:ALA:HB2	3:DS:21:ASN:OD1	1.80	0.81
3:DR:53:PHE:HE2	3:DR:205:LEU:HB3	1.43	0.81
3:DT:63:GLU:HG2	3:DT:201:LYS:HD3	1.63	0.81
3:DT:103:SER:O	3:DT:211:GLY:HA3	1.79	0.81
3:DX:63:GLU:HG2	3:DX:201:LYS:HD3	1.63	0.81
3:Df:21:ASN:OD1	3:Di:1:ALA:HB2	1.80	0.81
3:Df:191:LEU:HD22	3:Df:192:THR:N	1.93	0.81
3:Dk:21:ASN:OD1	3:Dn:1:ALA:HB2	1.80	0.81
3:Ds:63:GLU:HG2	3:Ds:201:LYS:HD3	1.63	0.81
3:EA:63:GLU:HG2	3:EA:201:LYS:HD3	1.63	0.81
1:A0:121:LEU:HD21	1:A1:207:CYS:N	1.94	0.81
1:A4:13:THR:HB	3:D5:157:ASN:CB	2.09	0.81
1:AC:75:CYS:HB3	1:AC:218:MET:SD	2.20	0.81
1:AJ:138:MET:HG3	3:DF:219:PRO:HB2	1.61	0.81
1:AL:13:THR:HB	3:DL:157:ASN:CB	2.09	0.81
1:AM:75:CYS:HB3	1:AM:218:MET:SD	2.20	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:115:THR:HG23	1:AM:133:LEU:H	1.45	0.81
1:AT:138:MET:HG3	3:DV:219:PRO:HB2	1.61	0.81
1:AW:115:THR:HG23	1:AW:133:LEU:H	1.45	0.81
1:AW:121:LEU:HD21	1:AX:207:CYS:N	1.94	0.81
1:Ab:138:MET:HG3	3:D9:219:PRO:HB2	1.61	0.81
1:Ae:75:CYS:HB3	1:Ae:218:MET:SD	2.20	0.81
1:Ag:83:GLU:HB2	1:Ag:212:ARG:HB3	1.61	0.81
1:Ag:115:THR:HG23	1:Ag:133:LEU:H	1.45	0.81
1:Ai:75:CYS:HB3	1:Ai:218:MET:SD	2.20	0.81
1:Am:115:THR:HG23	1:Am:133:LEU:H	1.45	0.81
1:An:83:GLU:HB2	1:An:212:ARG:HB3	1.61	0.81
1:BD:75:CYS:HB3	1:BD:218:MET:SD	2.20	0.81
2:C0:13:ARG:O	2:C0:27:GLN:HA	1.80	0.81
2:CN:120:HIS:NE2	2:CN:205:PRO:HD2	1.93	0.81
2:CP:156:SER:HB3	3:DP:51:TYR:CE1	2.15	0.81
2:CT:226:LEU:HD23	3:DP:126:PRO:HG2	1.59	0.81
2:CX:15:GLU:HG3	2:CX:29:SER:HB3	1.61	0.81
2:Cg:15:GLU:HG3	2:Cg:29:SER:HB3	1.61	0.81
2:Cj:13:ARG:O	2:Cj:27:GLN:HA	1.80	0.81
2:Cm:13:ARG:O	2:Cm:27:GLN:HA	1.80	0.81
2:Cw:156:SER:HB3	3:ED:51:TYR:CE1	2.15	0.81
3:D1:21:ASN:OD1	3:DZ:1:ALA:HB2	1.80	0.81
3:DA:21:ASN:OD1	3:DD:1:ALA:HB2	1.80	0.81
3:DB:1:ALA:HB2	3:DD:21:ASN:OD1	1.80	0.81
3:Dc:53:PHE:HE2	3:Dc:205:LEU:HB3	1.43	0.81
3:Dd:191:LEU:HD22	3:Dd:192:THR:N	1.93	0.81
3:Dg:191:LEU:HD22	3:Dg:192:THR:N	1.93	0.81
3:Dj:21:ASN:OD1	3:Dm:1:ALA:HB2	1.81	0.81
3:Dm:103:SER:O	3:Dm:211:GLY:HA3	1.79	0.81
3:EB:21:ASN:OD1	3:EE:1:ALA:HB2	1.80	0.81
1:A3:115:THR:HG23	1:A3:133:LEU:H	1.45	0.81
1:A5:83:GLU:HB2	1:A5:212:ARG:HB3	1.60	0.81
1:A6:75:CYS:HB3	1:A6:218:MET:SD	2.20	0.81
1:A8:13:THR:HB	3:D9:157:ASN:CB	2.09	0.81
1:AB:13:THR:HB	3:DB:157:ASN:CB	2.09	0.81
1:AB:83:GLU:HB2	1:AB:212:ARG:HB3	1.60	0.81
1:AG:115:THR:HG23	1:AG:133:LEU:H	1.45	0.81
1:AM:138:MET:HG3	3:DN:219:PRO:HB2	1.61	0.81
1:AO:70:ARG:O	1:AO:71:LEU:HB2	1.79	0.81
1:AS:13:THR:HB	3:DT:157:ASN:CB	2.09	0.81
1:Ad:138:MET:HG3	3:Dg:219:PRO:HB2	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:138:MET:HG3	3:Dk:219:PRO:HB2	1.61	0.81
1:Ao:13:THR:HB	3:DS:157:ASN:CB	2.09	0.81
1:BE:83:GLU:HB2	1:BE:212:ARG:HB3	1.60	0.81
1:BI:75:CYS:HB3	1:BI:218:MET:SD	2.20	0.81
2:C1:13:ARG:O	2:C1:27:GLN:HA	1.80	0.81
2:C3:15:GLU:HG3	2:C3:29:SER:HB3	1.61	0.81
2:CC:156:SER:HB3	3:DC:51:TYR:CE1	2.15	0.81
2:CD:13:ARG:O	2:CD:27:GLN:HA	1.80	0.81
2:CH:13:ARG:O	2:CH:27:GLN:HA	1.80	0.81
2:CH:15:GLU:HG3	2:CH:29:SER:HB3	1.61	0.81
2:CT:104:VAL:CG1	2:CT:222:VAL:HG22	2.06	0.81
2:CX:156:SER:HB3	3:DX:51:TYR:CE1	2.15	0.81
2:Cd:156:SER:HB3	3:Dd:51:TYR:CE1	2.15	0.81
2:Co:13:ARG:O	2:Co:27:GLN:HA	1.80	0.81
3:D4:1:ALA:HB2	3:D6:21:ASN:OD1	1.80	0.81
3:DS:53:PHE:HE2	3:DS:205:LEU:HB3	1.43	0.81
3:Df:103:SER:O	3:Df:211:GLY:HA3	1.79	0.81
1:A0:115:THR:HG23	1:A0:133:LEU:H	1.45	0.81
1:A3:83:GLU:HB2	1:A3:212:ARG:HB3	1.61	0.81
1:AA:83:GLU:HB2	1:AA:212:ARG:HB3	1.60	0.81
1:AB:121:LEU:HD21	1:AC:207:CYS:N	1.94	0.81
1:AC:13:THR:HB	3:DC:157:ASN:CB	2.09	0.81
1:AH:13:THR:HB	3:DH:157:ASN:CB	2.09	0.81
1:AI:70:ARG:O	1:AI:71:LEU:HB2	1.79	0.81
1:AK:115:THR:HG23	1:AK:133:LEU:H	1.45	0.81
1:AO:138:MET:HG3	3:DK:219:PRO:HB2	1.61	0.81
1:AT:121:LEU:HD21	1:AU:207:CYS:N	1.94	0.81
1:AT:207:CYS:N	1:AX:121:LEU:HD21	1.94	0.81
1:Ac:83:GLU:HB2	1:Ac:212:ARG:HB3	1.60	0.81
1:Ag:70:ARG:O	1:Ag:71:LEU:HB2	1.79	0.81
1:BD:115:THR:HG23	1:BD:133:LEU:H	1.45	0.81
1:BE:138:MET:HG3	3:EB:219:PRO:HB2	1.62	0.81
2:C0:122:GLY:HA2	2:C0:200:SER:O	1.79	0.81
2:C2:120:HIS:NE2	2:C2:205:PRO:HD2	1.94	0.81
2:C9:13:ARG:O	2:C9:27:GLN:HA	1.80	0.81
2:CH:156:SER:HB3	3:DH:51:TYR:CE1	2.15	0.81
2:CR:15:GLU:HG3	2:CR:29:SER:HB3	1.60	0.81
2:CW:156:SER:HB3	3:DW:51:TYR:CE1	2.15	0.81
2:CX:122:GLY:HA2	2:CX:200:SER:O	1.79	0.81
2:Cb:156:SER:HB3	3:Db:51:TYR:CE1	2.15	0.81
2:Cf:104:VAL:CG1	2:Cf:222:VAL:HG22	2.06	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cn:15:GLU:HG3	2:Cn:29:SER:HB3	1.61	0.81
2:Cq:156:SER:HB3	3:Dq:51:TYR:CE1	2.15	0.81
2:Ct:15:GLU:HG3	2:Ct:29:SER:HB3	1.60	0.81
3:D4:53:PHE:HE2	3:D4:205:LEU:HB3	1.43	0.81
3:D4:103:SER:O	3:D4:211:GLY:HA3	1.79	0.81
3:D6:1:ALA:HB2	3:D8:21:ASN:OD1	1.80	0.81
3:DL:1:ALA:HB2	3:DN:21:ASN:OD1	1.80	0.81
3:DR:1:ALA:HB2	3:DT:21:ASN:OD1	1.80	0.81
3:EB:1:ALA:HB2	3:ED:21:ASN:OD1	1.80	0.81
1:A8:115:THR:HG23	1:A8:133:LEU:H	1.45	0.81
1:AF:207:CYS:N	1:AJ:121:LEU:HD21	1.94	0.81
1:AN:115:THR:HG23	1:AN:133:LEU:H	1.45	0.81
1:AS:115:THR:HG23	1:AS:133:LEU:H	1.45	0.81
1:Ad:13:THR:HB	3:Df:157:ASN:CB	2.09	0.81
1:Am:13:THR:HB	3:Do:157:ASN:CB	2.09	0.81
1:An:13:THR:HB	3:Db:157:ASN:CB	2.09	0.81
1:BD:138:MET:HG3	3:Do:219:PRO:HB2	1.61	0.81
2:CC:13:ARG:O	2:CC:27:GLN:HA	1.80	0.81
2:CD:122:GLY:HA2	2:CD:200:SER:O	1.79	0.81
2:CL:15:GLU:HG3	2:CL:29:SER:HB3	1.61	0.81
2:CN:122:GLY:HA2	2:CN:200:SER:O	1.79	0.81
2:CY:13:ARG:O	2:CY:27:GLN:HA	1.80	0.81
2:Cj:15:GLU:HG3	2:Cj:29:SER:HB3	1.61	0.81
2:Ck:122:GLY:HA2	2:Ck:200:SER:O	1.79	0.81
2:Cl:63:THR:HG21	3:D8:188:LEU:HD11	1.60	0.81
2:Co:156:SER:HB3	3:Do:51:TYR:CE1	2.15	0.81
2:Cx:63:THR:HG21	3:Do:188:LEU:HD11	1.60	0.81
3:DA:1:ALA:HB2	3:DC:21:ASN:OD1	1.80	0.81
3:Da:21:ASN:OD1	3:Dd:1:ALA:HB2	1.80	0.81
1:A1:138:MET:HG3	3:D3:219:PRO:HB2	1.62	0.81
1:A9:70:ARG:O	1:A9:71:LEU:HB2	1.79	0.81
1:AA:121:LEU:HD21	1:AB:207:CYS:N	1.94	0.81
1:AB:75:CYS:HB3	1:AB:218:MET:SD	2.20	0.81
1:AD:70:ARG:O	1:AD:71:LEU:HB2	1.79	0.81
1:AF:83:GLU:HB2	1:AF:212:ARG:HB3	1.61	0.81
1:Aa:83:GLU:HB2	1:Aa:212:ARG:HB3	1.60	0.81
1:Af:138:MET:HG3	3:Di:219:PRO:HB2	1.61	0.81
1:Ah:13:THR:HB	3:Dj:157:ASN:CB	2.09	0.81
1:Ai:121:LEU:HD21	1:Aj:207:CYS:N	1.94	0.81
1:BB:115:THR:HG23	1:BB:133:LEU:H	1.45	0.81
1:BB:121:LEU:HD21	1:BC:207:CYS:N	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:75:CYS:HB3	1:BC:218:MET:SD	2.20	0.81
1:BD:70:ARG:O	1:BD:71:LEU:HB2	1.79	0.81
2:C8:13:ARG:O	2:C8:27:GLN:HA	1.80	0.81
2:CE:13:ARG:O	2:CE:27:GLN:HA	1.80	0.81
2:CK:156:SER:HB3	3:DK:51:TYR:CE1	2.15	0.81
2:CS:63:THR:HG21	3:Dc:188:LEU:HD11	1.60	0.81
2:Ca:63:THR:HG21	3:DL:188:LEU:HD11	1.60	0.81
2:Cc:156:SER:HB3	3:Dc:51:TYR:CE1	2.15	0.81
2:Cr:13:ARG:O	2:Cr:27:GLN:HA	1.80	0.81
3:D2:1:ALA:HB2	3:DZ:21:ASN:OD1	1.80	0.81
3:D6:53:PHE:HE2	3:D6:205:LEU:HB3	1.43	0.81
3:DP:21:ASN:OD1	3:DS:1:ALA:HB2	1.80	0.81
3:DQ:21:ASN:OD1	3:DT:1:ALA:HB2	1.80	0.81
3:Do:1:ALA:HB2	3:Dq:21:ASN:OD1	1.80	0.81
3:Dp:1:ALA:HB2	3:Dr:21:ASN:OD1	1.80	0.81
3:Dp:21:ASN:OD1	3:Ds:1:ALA:HB2	1.80	0.81
1:A0:75:CYS:HB3	1:A0:218:MET:SD	2.20	0.81
1:AC:115:THR:HG23	1:AC:133:LEU:H	1.45	0.81
1:AG:121:LEU:HD21	1:AH:207:CYS:N	1.94	0.81
1:AK:75:CYS:HB3	1:AK:218:MET:SD	2.20	0.81
1:AY:138:MET:HG3	3:D0:219:PRO:HB2	1.62	0.81
1:Aa:70:ARG:O	1:Aa:71:LEU:HB2	1.79	0.81
1:Am:138:MET:HG3	3:Dp:219:PRO:HB2	1.62	0.81
1:BA:83:GLU:HB2	1:BA:212:ARG:HB3	1.61	0.81
2:CD:156:SER:HB3	3:DD:51:TYR:CE1	2.15	0.81
2:CF:115:ASN:HA	3:D6:119:LYS:CD	2.11	0.81
2:CF:122:GLY:HA2	2:CF:200:SER:O	1.79	0.81
2:CI:15:GLU:HG3	2:CI:29:SER:HB3	1.61	0.81
2:CI:156:SER:HB3	3:DI:51:TYR:CE1	2.15	0.81
2:CN:156:SER:HB3	3:DN:51:TYR:CE1	2.15	0.81
2:CX:13:ARG:O	2:CX:27:GLN:HA	1.80	0.81
2:CY:156:SER:HB3	3:DY:51:TYR:CE1	2.15	0.81
2:Cf:156:SER:HB3	3:Df:51:TYR:CE1	2.15	0.81
2:Ch:115:ASN:HA	3:DN:119:LYS:CD	2.11	0.81
2:Cp:122:GLY:HA2	2:Cp:200:SER:O	1.79	0.81
2:Cq:13:ARG:O	2:Cq:27:GLN:HA	1.80	0.81
2:Cw:13:ARG:O	2:Cw:27:GLN:HA	1.80	0.81
3:DV:63:GLU:HG2	3:DV:201:LYS:HD3	1.63	0.81
1:A5:115:THR:HG23	1:A5:133:LEU:H	1.45	0.81
1:A6:70:ARG:O	1:A6:71:LEU:HB2	1.79	0.81
1:A6:138:MET:HG3	3:D8:219:PRO:HB2	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:13:THR:HB	3:Da:157:ASN:CB	2.09	0.81
1:A9:115:THR:HG23	1:A9:133:LEU:H	1.45	0.81
1:AF:121:LEU:HD21	1:AG:207:CYS:N	1.94	0.81
1:AI:13:THR:HB	3:DI:157:ASN:CB	2.09	0.81
1:AM:83:GLU:HB2	1:AM:212:ARG:HB3	1.61	0.81
1:AQ:115:THR:HG23	1:AQ:133:LEU:H	1.45	0.81
1:AS:138:MET:HG3	3:DP:219:PRO:HB2	1.62	0.81
1:AU:138:MET:HG3	3:DW:219:PRO:HB2	1.61	0.81
1:AX:115:THR:HG23	1:AX:133:LEU:H	1.45	0.81
1:BG:70:ARG:O	1:BG:71:LEU:HB2	1.79	0.81
1:BH:83:GLU:HB2	1:BH:212:ARG:HB3	1.61	0.81
2:C3:13:ARG:O	2:C3:27:GLN:HA	1.80	0.81
2:C5:156:SER:HB3	3:D5:51:TYR:CE1	2.15	0.81
2:C7:13:ARG:O	2:C7:27:GLN:HA	1.80	0.81
2:CD:115:ASN:HA	3:D7:119:LYS:CD	2.11	0.81
2:CG:13:ARG:O	2:CG:27:GLN:HA	1.80	0.81
2:CH:115:ASN:HA	3:Ds:119:LYS:CD	2.11	0.81
2:CV:115:ASN:HA	3:DB:119:LYS:CD	2.11	0.81
2:CZ:104:VAL:CG1	2:CZ:222:VAL:HG22	2.06	0.81
2:CZ:115:ASN:HA	3:Dq:119:LYS:CD	2.11	0.81
2:Cj:115:ASN:HA	3:DM:119:LYS:CD	2.11	0.81
2:Cn:156:SER:HB3	3:Dn:51:TYR:CE1	2.15	0.81
2:Cp:156:SER:HB3	3:Dp:51:TYR:CE1	2.15	0.81
2:Cs:156:SER:HB3	3:Ds:51:TYR:CE1	2.15	0.81
2:Cv:156:SER:HB3	3:EC:51:TYR:CE1	2.15	0.81
3:DG:63:GLU:HG2	3:DG:201:LYS:HD3	1.63	0.81
3:DL:21:ASN:OD1	3:DO:1:ALA:HB2	1.80	0.81
3:DV:103:SER:O	3:DV:211:GLY:HA3	1.79	0.81
3:DW:1:ALA:HB2	3:DY:21:ASN:OD1	1.80	0.81
3:Di:103:SER:O	3:Di:211:GLY:HA3	1.79	0.81
1:AB:138:MET:HG3	3:DC:219:PRO:HB2	1.61	0.80
1:AD:115:THR:HG23	1:AD:133:LEU:H	1.45	0.80
1:AF:75:CYS:HB3	1:AF:218:MET:SD	2.20	0.80
1:AG:75:CYS:HB3	1:AG:218:MET:SD	2.20	0.80
1:AK:138:MET:HG3	3:DL:219:PRO:HB2	1.61	0.80
1:AL:70:ARG:O	1:AL:71:LEU:HB2	1.79	0.80
1:AS:75:CYS:HB3	1:AS:218:MET:SD	2.20	0.80
1:AT:75:CYS:HB3	1:AT:218:MET:SD	2.20	0.80
1:AV:121:LEU:HD21	1:AW:207:CYS:N	1.94	0.80
1:Ac:13:THR:HB	3:De:157:ASN:CB	2.09	0.80
1:BD:13:THR:HB	3:Ds:157:ASN:CB	2.09	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:70:ARG:O	1:BH:71:LEU:HB2	1.79	0.80
2:C2:156:SER:HB3	3:D2:51:TYR:CE1	2.15	0.80
2:C4:115:ASN:HA	3:EC:119:LYS:CD	2.11	0.80
2:C7:156:SER:HB3	3:D7:51:TYR:CE1	2.15	0.80
2:CF:13:ARG:O	2:CF:27:GLN:HA	1.80	0.80
2:CJ:156:SER:HB3	3:DJ:51:TYR:CE1	2.15	0.80
2:CK:63:THR:HG21	3:Db:188:LEU:HD11	1.60	0.80
2:CS:115:ASN:HA	3:Dc:119:LYS:CD	2.11	0.80
2:Cf:15:GLU:HG3	2:Cf:29:SER:HB3	1.61	0.80
2:Ci:156:SER:HB3	3:Di:51:TYR:CE1	2.15	0.80
2:Cj:156:SER:HB3	3:Dj:51:TYR:CE1	2.15	0.80
2:Cr:156:SER:HB3	3:Dr:51:TYR:CE1	2.15	0.80
2:Cx:104:VAL:CG1	2:Cx:222:VAL:HG22	2.06	0.80
3:D4:63:GLU:HG2	3:D4:201:LYS:HD3	1.63	0.80
3:DH:63:GLU:HG2	3:DH:201:LYS:HD3	1.63	0.80
3:DU:1:ALA:HB2	3:DW:21:ASN:OD1	1.80	0.80
3:Dj:1:ALA:HB2	3:DI:21:ASN:OD1	1.80	0.80
3:Dk:63:GLU:HG2	3:Dk:201:LYS:HD3	1.63	0.80
3:Dp:63:GLU:HG2	3:Dp:201:LYS:HD3	1.63	0.80
3:EA:21:ASN:OD1	3:ED:1:ALA:HB2	1.80	0.80
1:AG:13:THR:HB	3:DG:157:ASN:CB	2.09	0.80
1:AI:121:LEU:HD21	1:AJ:207:CYS:N	1.94	0.80
1:AJ:13:THR:HB	3:DJ:157:ASN:CB	2.09	0.80
1:AR:138:MET:HG3	3:DS:219:PRO:HB2	1.62	0.80
1:AY:83:GLU:HB2	1:AY:212:ARG:HB3	1.60	0.80
1:BA:13:THR:HB	3:Dp:157:ASN:CB	2.09	0.80
2:CG:156:SER:HB3	3:DG:51:TYR:CE1	2.15	0.80
2:CI:115:ASN:HA	3:DX:119:LYS:CD	2.11	0.80
2:CP:63:THR:HG21	3:D1:188:LEU:HD11	1.60	0.80
2:CR:156:SER:HB3	3:DR:51:TYR:CE1	2.15	0.80
2:CU:156:SER:HB3	3:DU:51:TYR:CE1	2.15	0.80
2:CW:115:ASN:HA	3:DJ:119:LYS:CD	2.11	0.80
2:Ch:13:ARG:O	2:Ch:27:GLN:HA	1.80	0.80
2:Ci:13:ARG:O	2:CI:27:GLN:HA	1.80	0.80
2:Cn:63:THR:HG21	3:De:188:LEU:HD11	1.60	0.80
2:Co:104:VAL:CG1	2:Co:222:VAL:HG22	2.06	0.80
3:D9:63:GLU:HG2	3:D9:201:LYS:HD3	1.62	0.80
3:DC:1:ALA:HB2	3:DE:21:ASN:OD1	1.80	0.80
3:DP:63:GLU:HG2	3:DP:201:LYS:HD3	1.62	0.80
3:EA:1:ALA:HB2	3:EC:21:ASN:OD1	1.80	0.80
3:EE:63:GLU:HG2	3:EE:201:LYS:HD3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:138:MET:HG3	3:D2:219:PRO:HB2	1.61	0.80
1:A6:115:THR:HG23	1:A6:133:LEU:H	1.45	0.80
1:A1:115:THR:HG23	1:A1:133:LEU:H	1.45	0.80
1:AN:138:MET:HG3	3:DO:219:PRO:HB2	1.61	0.80
1:AP:70:ARG:O	1:AP:71:LEU:HB2	1.79	0.80
1:AV:138:MET:HG3	3:DX:219:PRO:HB2	1.61	0.80
1:AZ:138:MET:HG3	3:D1:219:PRO:HB2	1.62	0.80
1:Af:115:THR:HG23	1:Af:133:LEU:H	1.45	0.80
1:Aj:75:CYS:HB3	1:Aj:218:MET:SD	2.20	0.80
1:An:138:MET:HG3	3:Dc:219:PRO:HB2	1.62	0.80
1:Ao:70:ARG:O	1:Ao:71:LEU:HB2	1.79	0.80
1:BE:13:THR:HB	3:EA:157:ASN:CB	2.09	0.80
2:C3:156:SER:HB3	3:D3:51:TYR:CE1	2.15	0.80
2:CA:156:SER:HB3	3:DA:51:TYR:CE1	2.15	0.80
2:CD:104:VAL:CG1	2:CD:222:VAL:HG22	2.06	0.80
2:CY:115:ASN:HA	3:DZ:119:LYS:CD	2.11	0.80
2:CZ:156:SER:HB3	3:DZ:51:TYR:CE1	2.15	0.80
2:Cn:104:VAL:CG1	2:Cn:222:VAL:HG22	2.06	0.80
2:Cp:13:ARG:O	2:Cp:27:GLN:HA	1.80	0.80
2:Cp:115:ASN:HA	3:D0:119:LYS:CD	2.11	0.80
2:Ct:115:ASN:HA	3:DH:119:LYS:CD	2.11	0.80
2:Cv:13:ARG:O	2:Cv:27:GLN:HA	1.80	0.80
2:Cw:115:ASN:HA	3:DS:119:LYS:CD	2.11	0.80
3:D0:63:GLU:HG2	3:D0:201:LYS:HD3	1.63	0.80
3:D3:63:GLU:HG2	3:D3:201:LYS:HD3	1.63	0.80
3:DF:1:ALA:HB2	3:DH:21:ASN:OD1	1.80	0.80
3:Df:63:GLU:HG2	3:Df:201:LYS:HD3	1.63	0.80
3:Dl:63:GLU:HG2	3:Dl:201:LYS:HD3	1.63	0.80
3:ED:63:GLU:HG2	3:ED:201:LYS:HD3	1.63	0.80
1:AB:70:ARG:O	1:AB:71:LEU:HB2	1.79	0.80
1:AD:138:MET:HG3	3:DE:219:PRO:HB2	1.61	0.80
1:AE:13:THR:HB	3:DE:157:ASN:CB	2.09	0.80
1:AI:138:MET:HG3	3:DJ:219:PRO:HB2	1.61	0.80
1:AP:13:THR:HB	3:DP:157:ASN:CB	2.09	0.80
1:AW:13:THR:HB	3:DX:157:ASN:CB	2.09	0.80
1:Aj:138:MET:HG3	3:Dm:219:PRO:HB2	1.61	0.80
1:Am:207:CYS:N	1:BD:121:LEU:HD21	1.94	0.80
1:BC:70:ARG:O	1:BC:71:LEU:HB2	1.79	0.80
1:BC:138:MET:HG3	3:Ds:219:PRO:HB2	1.62	0.80
1:BF:115:THR:HG23	1:BF:133:LEU:H	1.45	0.80
2:CL:115:ASN:HA	3:Dk:119:LYS:CD	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CS:104:VAL:CG1	2:CS:222:VAL:HG22	2.06	0.80
2:Ca:156:SER:HB3	3:Da:51:TYR:CE1	2.15	0.80
2:Cb:15:GLU:HG3	2:Cb:29:SER:HB3	1.61	0.80
2:Cc:13:ARG:O	2:Cc:27:GLN:HA	1.80	0.80
2:Ch:122:GLY:HA2	2:Ch:200:SER:O	1.79	0.80
2:Cj:104:VAL:CG1	2:Cj:222:VAL:HG22	2.06	0.80
2:Ck:115:ASN:HA	3:Da:119:LYS:CD	2.11	0.80
2:Ct:109:ASP:HB2	2:Ct:218:ILE:HD11	1.64	0.80
3:D6:63:GLU:HG2	3:D6:201:LYS:HD3	1.63	0.80
3:D9:1:ALA:HB2	3:Db:21:ASN:OD1	1.81	0.80
3:DG:1:ALA:HB2	3:DI:21:ASN:OD1	1.80	0.80
3:DM:1:ALA:HB2	3:DO:21:ASN:OD1	1.80	0.80
3:DO:63:GLU:HG2	3:DO:201:LYS:HD3	1.63	0.80
3:DU:63:GLU:HG2	3:DU:201:LYS:HD3	1.63	0.80
3:Dq:63:GLU:HG2	3:Dq:201:LYS:HD3	1.63	0.80
1:A2:13:THR:HB	3:D3:157:ASN:CB	2.09	0.80
1:AZ:70:ARG:O	1:AZ:71:LEU:HB2	1.79	0.80
1:Al:138:MET:HG3	3:Dj:219:PRO:HB2	1.61	0.80
1:Ao:115:THR:HG23	1:Ao:133:LEU:H	1.45	0.80
1:BA:70:ARG:O	1:BA:71:LEU:HB2	1.79	0.80
1:BA:75:CYS:HB3	1:BA:218:MET:SD	2.20	0.80
1:BA:115:THR:HG23	1:BA:133:LEU:H	1.45	0.80
1:BH:115:THR:HG23	1:BH:133:LEU:H	1.45	0.80
2:C1:109:ASP:HB2	2:C1:218:ILE:HD11	1.64	0.80
2:C9:115:ASN:HA	3:DI:119:LYS:CD	2.12	0.80
2:CA:15:GLU:HG3	2:CA:29:SER:HB3	1.60	0.80
2:CB:156:SER:HB3	3:DB:51:TYR:CE1	2.15	0.80
2:CD:109:ASP:HB2	2:CD:218:ILE:HD11	1.64	0.80
2:CF:156:SER:HB3	3:DF:51:TYR:CE1	2.15	0.80
2:CG:115:ASN:HA	3:EB:119:LYS:CD	2.11	0.80
2:Cf:109:ASP:HB2	2:Cf:218:ILE:HD11	1.64	0.80
2:Cf:115:ASN:HA	3:DV:119:LYS:CD	2.11	0.80
2:Cq:115:ASN:HA	3:DY:119:LYS:CD	2.11	0.80
2:Cr:115:ASN:HA	3:DI:119:LYS:CD	2.12	0.80
2:Cs:115:ASN:HA	3:EA:119:LYS:CD	2.11	0.80
2:Cv:115:ASN:HA	3:Dd:119:LYS:CD	2.11	0.80
2:Cx:115:ASN:HA	3:Do:119:LYS:CD	2.11	0.80
3:DB:21:ASN:OD1	3:DE:1:ALA:HB2	1.80	0.80
3:DY:63:GLU:HG2	3:DY:201:LYS:HD3	1.62	0.80
3:Dk:1:ALA:HB2	3:Dm:21:ASN:OD1	1.80	0.80
3:DI:53:PHE:HE2	3:DI:205:LEU:HB3	1.43	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:70:ARG:O	1:A5:71:LEU:HB2	1.79	0.80
1:A8:138:MET:HG3	3:Da:219:PRO:HB2	1.61	0.80
1:AG:138:MET:HG3	3:DH:219:PRO:HB2	1.61	0.80
1:AO:115:THR:HG23	1:AO:133:LEU:H	1.45	0.80
1:Aa:138:MET:HG3	3:Dd:219:PRO:HB2	1.61	0.80
1:Aj:70:ARG:O	1:Aj:71:LEU:HB2	1.79	0.80
1:BB:75:CYS:HB3	1:BB:218:MET:SD	2.20	0.80
1:BI:83:GLU:HB2	1:BI:212:ARG:HB3	1.60	0.80
2:C0:109:ASP:HB2	2:C0:218:ILE:HD11	1.64	0.80
2:C6:156:SER:HB3	3:D6:51:TYR:CE1	2.15	0.80
2:C8:109:ASP:HB2	2:C8:218:ILE:HD11	1.64	0.80
2:CD:63:THR:HG21	3:D7:188:LEU:HD11	1.61	0.80
2:CE:115:ASN:HA	3:DF:119:LYS:CD	2.11	0.80
2:CK:109:ASP:HB2	2:CK:218:ILE:HD11	1.64	0.80
2:CP:115:ASN:HA	3:D1:119:LYS:CD	2.11	0.80
2:CQ:13:ARG:O	2:CQ:27:GLN:HA	1.80	0.80
2:CQ:15:GLU:HG3	2:CQ:29:SER:HB3	1.61	0.80
2:CY:15:GLU:HG3	2:CY:29:SER:HB3	1.60	0.80
2:Ca:109:ASP:HB2	2:Ca:218:ILE:HD11	1.64	0.80
2:Cu:156:SER:HB3	3:EB:51:TYR:CE1	2.15	0.80
3:DG:21:ASN:OD1	3:DJ:1:ALA:HB2	1.80	0.80
3:DK:21:ASN:OD1	3:DN:1:ALA:HB2	1.80	0.80
3:DK:63:GLU:HG2	3:DK:201:LYS:HD3	1.63	0.80
3:Dg:63:GLU:HG2	3:Dg:201:LYS:HD3	1.62	0.80
3:Dn:63:GLU:HG2	3:Dn:201:LYS:HD3	1.63	0.80
1:A0:70:ARG:O	1:A0:71:LEU:HB2	1.79	0.80
1:AA:138:MET:HG3	3:DB:219:PRO:HB2	1.61	0.80
1:Al:115:THR:HG23	1:Al:133:LEU:H	1.45	0.80
2:C5:115:ASN:HA	3:DG:119:LYS:CD	2.12	0.80
2:CF:109:ASP:HB2	2:CF:218:ILE:HD11	1.64	0.80
2:CP:109:ASP:HB2	2:CP:218:ILE:HD11	1.64	0.80
2:Ca:115:ASN:HA	3:DL:119:LYS:CD	2.11	0.80
2:Cb:13:ARG:O	2:Cb:27:GLN:HA	1.80	0.80
2:Cc:109:ASP:HB2	2:Cc:218:ILE:HD11	1.64	0.80
2:Ck:109:ASP:HB2	2:Ck:218:ILE:HD11	1.64	0.80
2:Cu:13:ARG:O	2:Cu:27:GLN:HA	1.80	0.80
2:Cu:15:GLU:HG3	2:Cu:29:SER:HB3	1.61	0.80
3:DF:21:ASN:OD1	3:DI:1:ALA:HB2	1.80	0.80
3:DV:1:ALA:HB2	3:DX:21:ASN:OD1	1.80	0.80
1:A4:115:THR:HG23	1:A4:133:LEU:H	1.45	0.80
1:AY:70:ARG:O	1:AY:71:LEU:HB2	1.79	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:13:THR:HB	3:D0:157:ASN:CB	2.09	0.80
1:An:115:THR:HG23	1:An:133:LEU:H	1.45	0.80
2:C4:156:SER:HB3	3:D4:51:TYR:CE1	2.15	0.80
2:CM:109:ASP:HB2	2:CM:218:ILE:HD11	1.64	0.80
2:CM:115:ASN:HA	3:Di:119:LYS:CD	2.11	0.80
2:CO:104:VAL:CG1	2:CO:222:VAL:HG22	2.06	0.80
2:CU:13:ARG:O	2:CU:27:GLN:HA	1.80	0.80
2:CW:104:VAL:CG1	2:CW:222:VAL:HG22	2.06	0.80
2:Cg:13:ARG:O	2:Cg:27:GLN:HA	1.80	0.80
2:Cp:109:ASP:HB2	2:Cp:218:ILE:HD11	1.64	0.80
3:DJ:63:GLU:HG2	3:DJ:201:LYS:HD3	1.63	0.80
3:Dd:53:PHE:HE2	3:Dd:205:LEU:HB3	1.43	0.80
3:ED:103:SER:CB	3:ED:159:PRO:HA	2.12	0.80
1:AP:138:MET:HG3	3:DQ:219:PRO:HB2	1.61	0.80
1:Aj:115:THR:HG23	1:Aj:133:LEU:H	1.45	0.80
1:Al:170:PHE:HD2	1:Al:222:ARG:CZ	1.95	0.80
1:BG:115:THR:HG23	1:BG:133:LEU:H	1.45	0.80
2:C0:156:SER:HB3	3:D0:51:TYR:CE1	2.15	0.80
2:C6:109:ASP:HB2	2:C6:218:ILE:HD11	1.64	0.80
2:CK:115:ASN:HA	3:Db:119:LYS:CD	2.11	0.80
2:CL:104:VAL:CG1	2:CL:222:VAL:HG22	2.06	0.80
2:CQ:115:ASN:HA	3:Dp:119:LYS:CD	2.11	0.80
2:CT:115:ASN:HA	3:DK:119:LYS:CD	2.12	0.80
2:CU:115:ASN:HA	3:Dg:119:LYS:CD	2.11	0.80
2:CX:115:ASN:HA	3:Dr:119:LYS:CD	2.11	0.80
2:Cu:109:ASP:HB2	2:Cu:218:ILE:HD11	1.64	0.80
3:DH:1:ALA:HB2	3:DJ:21:ASN:OD1	1.80	0.80
3:DL:63:GLU:HG2	3:DL:201:LYS:HD3	1.63	0.80
3:DM:103:SER:CB	3:DM:159:PRO:HA	2.12	0.80
3:DW:63:GLU:HG2	3:DW:201:LYS:HD3	1.63	0.80
3:De:63:GLU:HG2	3:De:201:LYS:HD3	1.63	0.80
3:Do:63:GLU:HG2	3:Do:201:LYS:HD3	1.63	0.80
1:A2:115:THR:HG23	1:A2:133:LEU:H	1.45	0.80
1:A7:138:MET:HG3	3:D4:219:PRO:HB2	1.62	0.80
1:A7:170:PHE:HD2	1:A7:222:ARG:CZ	1.96	0.80
1:AA:115:THR:HG23	1:AA:133:LEU:H	1.45	0.80
1:AH:138:MET:HG3	3:DI:219:PRO:HB2	1.61	0.80
1:Ac:170:PHE:HD2	1:Ac:222:ARG:CZ	1.95	0.80
1:Ae:13:THR:HB	3:Dg:157:ASN:CB	2.09	0.80
1:Ae:170:PHE:HD2	1:Ae:222:ARG:CZ	1.95	0.80
1:BC:170:PHE:HD2	1:BC:222:ARG:CZ	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:115:ASN:HA	3:DE:119:LYS:CD	2.11	0.80
2:C7:109:ASP:HB2	2:C7:218:ILE:HD11	1.64	0.80
2:CR:109:ASP:HB2	2:CR:218:ILE:HD11	1.64	0.80
2:Cg:156:SER:HB3	3:Dg:51:TYR:CE1	2.15	0.80
2:Cm:115:ASN:HA	3:DD:119:LYS:CD	2.11	0.80
3:D7:53:PHE:HE2	3:D7:205:LEU:HB3	1.43	0.80
3:DH:103:SER:CB	3:DH:159:PRO:HA	2.12	0.80
3:DS:63:GLU:HG2	3:DS:201:LYS:HD3	1.63	0.80
3:Dr:63:GLU:HG2	3:Dr:201:LYS:HD3	1.63	0.80
1:AU:70:ARG:O	1:AU:71:LEU:HB2	1.79	0.79
1:AU:170:PHE:HD2	1:AU:222:ARG:CZ	1.95	0.79
1:Ao:138:MET:HG3	3:DT:219:PRO:HB2	1.61	0.79
1:Ao:170:PHE:HD2	1:Ao:222:ARG:CZ	1.95	0.79
1:BG:170:PHE:HD2	1:BG:222:ARG:CZ	1.95	0.79
2:C2:104:VAL:CG1	2:C2:222:VAL:HG22	2.06	0.79
2:C3:115:ASN:HA	3:DU:119:LYS:CD	2.12	0.79
2:CB:115:ASN:HA	3:Df:119:LYS:CD	2.11	0.79
2:CX:109:ASP:HB2	2:CX:218:ILE:HD11	1.64	0.79
2:Ce:115:ASN:HA	3:DC:119:LYS:CD	2.11	0.79
2:Cl:109:ASP:HB2	2:Cl:218:ILE:HD11	1.64	0.79
2:Cm:104:VAL:CG1	2:Cm:222:VAL:HG22	2.06	0.79
3:DA:103:SER:CB	3:DA:159:PRO:HA	2.12	0.79
3:DE:63:GLU:HG2	3:DE:201:LYS:HD3	1.63	0.79
3:Db:63:GLU:HG2	3:Db:201:LYS:HD3	1.63	0.79
3:Dd:103:SER:CB	3:Dd:159:PRO:HA	2.12	0.79
3:Di:63:GLU:HG2	3:Di:201:LYS:HD3	1.63	0.79
3:Dq:1:ALA:HB2	3:Ds:21:ASN:OD1	1.80	0.79
3:EA:103:SER:CB	3:EA:159:PRO:HA	2.12	0.79
3:EC:1:ALA:HB2	3:EE:21:ASN:OD1	1.80	0.79
1:AG:170:PHE:HD2	1:AG:222:ARG:CZ	1.96	0.79
1:AX:170:PHE:HD2	1:AX:222:ARG:CZ	1.96	0.79
1:Af:170:PHE:HD2	1:Af:222:ARG:CZ	1.96	0.79
1:Ak:170:PHE:HD2	1:Ak:222:ARG:CZ	1.95	0.79
1:BA:170:PHE:HD2	1:BA:222:ARG:CZ	1.95	0.79
1:BI:13:THR:HB	3:EE:157:ASN:CB	2.09	0.79
2:C1:154:GLN:O	2:C1:157:VAL:HG12	1.83	0.79
2:CK:154:GLN:O	2:CK:157:VAL:HG12	1.83	0.79
2:CY:109:ASP:HB2	2:CY:218:ILE:HD11	1.64	0.79
2:Cd:115:ASN:HA	3:D4:119:LYS:CD	2.11	0.79
2:Cg:109:ASP:HB2	2:Cg:218:ILE:HD11	1.64	0.79
2:Ch:154:GLN:O	2:Ch:157:VAL:HG12	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cm:109:ASP:HB2	2:Cm:218:ILE:HD11	1.64	0.79
2:Cn:109:ASP:HB2	2:Cn:218:ILE:HD11	1.64	0.79
2:Cu:115:ASN:HA	3:D5:119:LYS:CD	2.11	0.79
3:D7:63:GLU:HG2	3:D7:201:LYS:HD3	1.63	0.79
3:D8:53:PHE:HE2	3:D8:205:LEU:HB3	1.43	0.79
3:DI:63:GLU:HG2	3:DI:201:LYS:HD3	1.63	0.79
3:Ds:103:SER:CB	3:Ds:159:PRO:HA	2.12	0.79
1:AE:115:THR:HG23	1:AE:133:LEU:H	1.45	0.79
1:AF:170:PHE:HD2	1:AF:222:ARG:CZ	1.95	0.79
2:CO:115:ASN:HA	3:DP:119:LYS:CD	2.11	0.79
2:CO:154:GLN:O	2:CO:157:VAL:HG12	1.83	0.79
2:CP:104:VAL:CG1	2:CP:222:VAL:HG22	2.06	0.79
2:CP:154:GLN:O	2:CP:157:VAL:HG12	1.83	0.79
2:CS:154:GLN:O	2:CS:157:VAL:HG12	1.83	0.79
2:Cd:109:ASP:HB2	2:Cd:218:ILE:HD11	1.64	0.79
2:Cg:115:ASN:HA	3:D3:119:LYS:CD	2.11	0.79
2:CI:109:ASP:HB2	2:CI:218:ILE:HD11	1.64	0.79
2:Ck:154:GLN:O	2:Ck:157:VAL:HG12	1.83	0.79
2:Co:115:ASN:HA	3:DR:119:LYS:CD	2.11	0.79
3:DW:103:SER:CB	3:DW:159:PRO:HA	2.12	0.79
3:Da:103:SER:CB	3:Da:159:PRO:HA	2.12	0.79
3:De:21:ASN:OD1	3:Dh:1:ALA:HB2	1.81	0.79
3:Df:103:SER:CB	3:Df:159:PRO:HA	2.12	0.79
3:Dn:103:SER:CB	3:Dn:159:PRO:HA	2.12	0.79
3:EC:63:GLU:HG2	3:EC:201:LYS:HD3	1.63	0.79
1:A8:170:PHE:HD2	1:A8:222:ARG:CZ	1.95	0.79
1:A9:170:PHE:HD2	1:A9:222:ARG:CZ	1.95	0.79
1:AB:170:PHE:HD2	1:AB:222:ARG:CZ	1.95	0.79
1:AE:170:PHE:HD2	1:AE:222:ARG:CZ	1.95	0.79
1:AO:170:PHE:HD2	1:AO:222:ARG:CZ	1.95	0.79
1:An:170:PHE:HD2	1:An:222:ARG:CZ	1.95	0.79
1:BI:174:TRP:HB2	2:Cx:188:LEU:HD23	1.65	0.79
2:C0:115:ASN:HA	3:DQ:119:LYS:CD	2.11	0.79
2:C2:109:ASP:HB2	2:C2:218:ILE:HD11	1.64	0.79
2:C7:154:GLN:O	2:C7:157:VAL:HG12	1.83	0.79
2:C8:104:VAL:CG1	2:C8:222:VAL:HG22	2.06	0.79
2:CA:115:ASN:HA	3:DW:119:LYS:CD	2.11	0.79
2:CC:115:ASN:HA	3:Dn:119:LYS:CD	2.11	0.79
2:CH:104:VAL:CG1	2:CH:222:VAL:HG22	2.06	0.79
2:CJ:154:GLN:O	2:CJ:157:VAL:HG12	1.83	0.79
2:CM:154:GLN:O	2:CM:157:VAL:HG12	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:115:ASN:HA	3:EE:119:LYS:CD	2.12	0.79
2:Cc:115:ASN:HA	3:ED:119:LYS:CD	2.11	0.79
2:Cr:154:GLN:O	2:Cr:157:VAL:HG12	1.83	0.79
2:Ct:154:GLN:O	2:Ct:157:VAL:HG12	1.83	0.79
3:D2:63:GLU:HG2	3:D2:201:LYS:HD3	1.63	0.79
3:DF:63:GLU:HG2	3:DF:201:LYS:HD3	1.63	0.79
3:DM:63:GLU:HG2	3:DM:201:LYS:HD3	1.63	0.79
3:DN:103:SER:CB	3:DN:159:PRO:HA	2.12	0.79
3:DR:103:SER:CB	3:DR:159:PRO:HA	2.12	0.79
3:Dg:103:SER:CB	3:Dg:159:PRO:HA	2.12	0.79
1:AS:174:TRP:HB2	2:CT:188:LEU:HD23	1.65	0.79
1:AT:170:PHE:HD2	1:AT:222:ARG:CZ	1.95	0.79
1:AV:174:TRP:HB2	2:CW:188:LEU:HD23	1.65	0.79
1:Ai:174:TRP:HB2	2:Ck:188:LEU:HD23	1.65	0.79
1:BH:170:PHE:HD2	1:BH:222:ARG:CZ	1.95	0.79
2:CB:104:VAL:CG1	2:CB:222:VAL:HG22	2.06	0.79
2:CJ:115:ASN:HA	3:DA:119:LYS:CD	2.11	0.79
2:CO:109:ASP:HB2	2:CO:218:ILE:HD11	1.64	0.79
2:Cb:115:ASN:HA	3:DT:119:LYS:CD	2.11	0.79
2:Ci:115:ASN:HA	3:Dj:119:LYS:CD	2.11	0.79
3:DZ:63:GLU:HG2	3:DZ:201:LYS:HD3	1.63	0.79
3:Do:21:ASN:OD1	3:Dr:1:ALA:HB2	1.81	0.79
3:EE:103:SER:CB	3:EE:159:PRO:HA	2.12	0.79
1:AA:170:PHE:HD2	1:AA:222:ARG:CZ	1.96	0.79
1:AC:174:TRP:HB2	2:CC:188:LEU:HD23	1.65	0.79
1:AN:170:PHE:HD2	1:AN:222:ARG:CZ	1.95	0.79
1:AW:170:PHE:HD2	1:AW:222:ARG:CZ	1.95	0.79
1:AY:170:PHE:HD2	1:AY:222:ARG:CZ	1.95	0.79
1:BB:13:THR:HB	3:Dq:157:ASN:CB	2.09	0.79
2:CC:154:GLN:O	2:CC:157:VAL:HG12	1.83	0.79
2:CJ:109:ASP:HB2	2:CJ:218:ILE:HD11	1.64	0.79
2:CN:109:ASP:HB2	2:CN:218:ILE:HD11	1.64	0.79
2:CN:115:ASN:HA	3:D2:119:LYS:CD	2.11	0.79
2:CT:109:ASP:HB2	2:CT:218:ILE:HD11	1.64	0.79
2:CU:109:ASP:HB2	2:CU:218:ILE:HD11	1.64	0.79
2:CZ:109:ASP:HB2	2:CZ:218:ILE:HD11	1.64	0.79
2:Cc:154:GLN:O	2:Cc:157:VAL:HG12	1.83	0.79
2:Cf:154:GLN:O	2:Cf:157:VAL:HG12	1.83	0.79
2:Cj:154:GLN:O	2:Cj:157:VAL:HG12	1.83	0.79
2:Cn:115:ASN:HA	3:De:119:LYS:CD	2.11	0.79
2:Cp:154:GLN:O	2:Cp:157:VAL:HG12	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D1:103:SER:CB	3:D1:159:PRO:HA	2.12	0.79
3:D5:63:GLU:HG2	3:D5:201:LYS:HD3	1.63	0.79
3:Dj:63:GLU:HG2	3:Dj:201:LYS:HD3	1.63	0.79
3:EC:103:SER:CB	3:EC:159:PRO:HA	2.12	0.79
1:A3:170:PHE:HD2	1:A3:222:ARG:CZ	1.95	0.79
1:A5:138:MET:HG3	3:D7:219:PRO:HB2	1.62	0.79
1:AD:13:THR:HB	3:DD:157:ASN:CB	2.09	0.79
1:AQ:170:PHE:HD2	1:AQ:222:ARG:CZ	1.95	0.79
1:AR:170:PHE:HD2	1:AR:222:ARG:CZ	1.95	0.79
1:Ac:174:TRP:HB2	2:Ce:188:LEU:HD23	1.65	0.79
1:BB:170:PHE:HD2	1:BB:222:ARG:CZ	1.95	0.79
2:C1:115:ASN:HA	3:DO:119:LYS:CD	2.12	0.79
2:C8:115:ASN:HA	3:D9:119:LYS:CD	2.12	0.79
2:CA:109:ASP:HB2	2:CA:218:ILE:HD11	1.64	0.79
2:CC:109:ASP:HB2	2:CC:218:ILE:HD11	1.64	0.79
2:CL:44:PRO:HB2	2:CL:47:VAL:CG2	2.13	0.79
2:CT:154:GLN:O	2:CT:157:VAL:HG12	1.83	0.79
2:CU:154:GLN:O	2:CU:157:VAL:HG12	1.83	0.79
2:CY:154:GLN:O	2:CY:157:VAL:HG12	1.83	0.79
2:Ca:154:GLN:O	2:Ca:157:VAL:HG12	1.83	0.79
2:Cb:44:PRO:HB2	2:Cb:47:VAL:CG2	2.13	0.79
2:Ce:44:PRO:HB2	2:Ce:47:VAL:CG2	2.13	0.79
2:Ct:44:PRO:HB2	2:Ct:47:VAL:CG2	2.13	0.79
3:D7:103:SER:CB	3:D7:159:PRO:HA	2.12	0.79
3:DU:21:ASN:OD1	3:DX:1:ALA:HB2	1.80	0.79
3:Dc:63:GLU:HG2	3:Dc:201:LYS:HD3	1.63	0.79
3:EB:103:SER:CB	3:EB:159:PRO:HA	2.12	0.79
1:A6:170:PHE:HD2	1:A6:222:ARG:CZ	1.96	0.79
1:AC:138:MET:HG3	3:DD:219:PRO:HB2	1.61	0.79
1:AC:170:PHE:HD2	1:AC:222:ARG:CZ	1.95	0.79
1:AF:70:ARG:O	1:AF:71:LEU:HB2	1.79	0.79
1:AH:170:PHE:HD2	1:AH:222:ARG:CZ	1.96	0.79
1:AM:174:TRP:HB2	2:CM:188:LEU:HD23	1.65	0.79
2:C2:115:ASN:HA	3:Dh:119:LYS:CD	2.11	0.79
2:CA:154:GLN:O	2:CA:157:VAL:HG12	1.83	0.79
2:CG:109:ASP:HB2	2:CG:218:ILE:HD11	1.64	0.79
2:CH:154:GLN:O	2:CH:157:VAL:HG12	1.83	0.79
2:CR:104:VAL:CG1	2:CR:222:VAL:HG22	2.06	0.79
2:CX:154:GLN:O	2:CX:157:VAL:HG12	1.83	0.79
2:Ci:44:PRO:HB2	2:Ci:47:VAL:CG2	2.13	0.79
2:Cn:154:GLN:O	2:Cn:157:VAL:HG12	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cp:44:PRO:HB2	2:Cp:47:VAL:CG2	2.13	0.79
3:D8:103:SER:CB	3:D8:159:PRO:HA	2.12	0.79
3:Dc:103:SER:CB	3:Dc:159:PRO:HA	2.12	0.79
3:Dk:103:SER:CB	3:Dk:159:PRO:HA	2.12	0.79
3:Dm:103:SER:CB	3:Dm:159:PRO:HA	2.12	0.79
3:Dr:103:SER:CB	3:Dr:159:PRO:HA	2.12	0.79
1:AR:115:THR:HG23	1:AR:133:LEU:H	1.45	0.79
1:Ao:60:PHE:CE2	1:Ao:167:VAL:HG11	2.18	0.79
1:BB:60:PHE:CE2	1:BB:167:VAL:HG11	2.18	0.79
1:BE:170:PHE:HD2	1:BE:222:ARG:CZ	1.95	0.79
1:BH:174:TRP:HB2	2:Cw:188:LEU:HD23	1.65	0.79
1:BI:170:PHE:HD2	1:BI:222:ARG:CZ	1.95	0.79
2:C7:115:ASN:HA	3:Dm:119:LYS:CD	2.11	0.79
2:CB:154:GLN:O	2:CB:157:VAL:HG12	1.83	0.79
2:CQ:154:GLN:O	2:CQ:157:VAL:HG12	1.83	0.79
2:CS:109:ASP:HB2	2:CS:218:ILE:HD11	1.64	0.79
2:CW:154:GLN:O	2:CW:157:VAL:HG12	1.83	0.79
2:Cc:104:VAL:CG1	2:Cc:222:VAL:HG22	2.06	0.79
2:Cg:154:GLN:O	2:Cg:157:VAL:HG12	1.83	0.79
2:Cj:109:ASP:HB2	2:Cj:218:ILE:HD11	1.64	0.79
2:Cl:115:ASN:HA	3:D8:119:LYS:CD	2.11	0.79
2:Cu:154:GLN:O	2:Cu:157:VAL:HG12	1.83	0.79
3:DI:103:SER:CB	3:DI:159:PRO:HA	2.12	0.79
3:DJ:103:SER:CB	3:DJ:159:PRO:HA	2.12	0.79
3:DK:103:SER:CB	3:DK:159:PRO:HA	2.12	0.79
3:DU:103:SER:CB	3:DU:159:PRO:HA	2.12	0.79
1:A2:170:PHE:HD2	1:A2:222:ARG:CZ	1.95	0.79
1:A9:60:PHE:CE2	1:A9:167:VAL:HG11	2.18	0.79
1:AB:115:THR:HG23	1:AB:133:LEU:H	1.45	0.79
1:AD:60:PHE:CE2	1:AD:167:VAL:HG11	2.18	0.79
1:AD:170:PHE:HD2	1:AD:222:ARG:CZ	1.95	0.79
1:AE:174:TRP:HB2	2:CE:188:LEU:HD23	1.65	0.79
1:AI:170:PHE:HD2	1:AI:222:ARG:CZ	1.95	0.79
1:AY:60:PHE:CE2	1:AY:167:VAL:HG11	2.18	0.79
1:AZ:170:PHE:HD2	1:AZ:222:ARG:CZ	1.96	0.79
1:Ab:174:TRP:HB2	2:Cd:188:LEU:HD23	1.65	0.79
1:Ag:174:TRP:HB2	2:Ci:188:LEU:HD23	1.65	0.79
1:Ah:60:PHE:CE2	1:Ah:167:VAL:HG11	2.18	0.79
1:BE:60:PHE:CE2	1:BE:167:VAL:HG11	2.18	0.79
2:C8:180:PRO:HD2	2:C8:189:HIS:CE1	2.18	0.79
2:C9:109:ASP:HB2	2:C9:218:ILE:HD11	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:180:PRO:HD2	2:CB:189:HIS:CE1	2.18	0.79
2:CN:154:GLN:O	2:CN:157:VAL:HG12	1.83	0.79
2:CQ:109:ASP:HB2	2:CQ:218:ILE:HD11	1.64	0.79
2:CY:44:PRO:HB2	2:CY:47:VAL:CG2	2.13	0.79
2:Co:109:ASP:HB2	2:Co:218:ILE:HD11	1.64	0.79
3:D1:63:GLU:HG2	3:D1:201:LYS:HD3	1.63	0.79
3:DC:103:SER:CB	3:DC:159:PRO:HA	2.12	0.79
3:DO:103:SER:CB	3:DO:159:PRO:HA	2.12	0.79
3:De:103:SER:CB	3:De:159:PRO:HA	2.12	0.79
3:Dh:63:GLU:HG2	3:Dh:201:LYS:HD3	1.63	0.79
3:Dl:103:SER:CB	3:Dl:159:PRO:HA	2.12	0.79
3:Dm:63:GLU:HG2	3:Dm:201:LYS:HD3	1.63	0.79
3:Do:103:SER:CB	3:Do:159:PRO:HA	2.12	0.79
1:AB:60:PHE:CE2	1:AB:167:VAL:HG11	2.18	0.78
1:AE:60:PHE:CE2	1:AE:167:VAL:HG11	2.18	0.78
1:AS:170:PHE:HD2	1:AS:222:ARG:CZ	1.95	0.78
1:AV:13:THR:HB	3:DW:157:ASN:CB	2.09	0.78
1:Ag:170:PHE:HD2	1:Ag:222:ARG:CZ	1.95	0.78
1:Ah:115:THR:HG23	1:Ah:133:LEU:H	1.45	0.78
1:Am:174:TRP:HB2	2:Co:188:LEU:HD23	1.65	0.78
1:BA:60:PHE:CE2	1:BA:167:VAL:HG11	2.18	0.78
1:BB:174:TRP:HB2	2:Cq:188:LEU:HD23	1.65	0.78
1:BF:60:PHE:CE2	1:BF:167:VAL:HG11	2.18	0.78
1:BF:170:PHE:HD2	1:BF:222:ARG:CZ	1.95	0.78
2:C1:180:PRO:HD2	2:C1:189:HIS:CE1	2.19	0.78
2:C4:44:PRO:HB2	2:C4:47:VAL:CG2	2.13	0.78
2:CC:104:VAL:CG1	2:CC:222:VAL:HG22	2.06	0.78
2:Ca:180:PRO:HD2	2:Ca:189:HIS:CE1	2.18	0.78
2:Cj:44:PRO:HB2	2:Cj:47:VAL:CG2	2.13	0.78
3:DA:63:GLU:HG2	3:DA:201:LYS:HD3	1.63	0.78
3:DQ:63:GLU:HG2	3:DQ:201:LYS:HD3	1.63	0.78
3:DT:103:SER:CB	3:DT:159:PRO:HA	2.12	0.78
1:A3:13:THR:HB	3:D4:157:ASN:CB	2.09	0.78
1:A4:170:PHE:HD2	1:A4:222:ARG:CZ	1.95	0.78
1:AJ:174:TRP:HB2	2:CJ:188:LEU:HD23	1.65	0.78
1:AK:60:PHE:CE2	1:AK:167:VAL:HG11	2.18	0.78
1:AL:60:PHE:CE2	1:AL:167:VAL:HG11	2.18	0.78
1:AP:60:PHE:CE2	1:AP:167:VAL:HG11	2.18	0.78
1:AP:170:PHE:HD2	1:AP:222:ARG:CZ	1.95	0.78
1:Ae:174:TRP:HB2	2:Cg:188:LEU:HD23	1.65	0.78
1:Ag:60:PHE:CE2	1:Ag:167:VAL:HG11	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:170:PHE:HD2	1:BD:222:ARG:CZ	1.96	0.78
2:C2:180:PRO:HD2	2:C2:189:HIS:CE1	2.19	0.78
2:CA:180:PRO:HD2	2:CA:189:HIS:CE1	2.19	0.78
2:CJ:44:PRO:HB2	2:CJ:47:VAL:CG2	2.13	0.78
2:CI:180:PRO:HD2	2:CI:189:HIS:CE1	2.19	0.78
2:CM:180:PRO:HD2	2:CM:189:HIS:CE1	2.19	0.78
2:CO:154:GLN:O	2:CO:157:VAL:HG12	1.83	0.78
2:CV:109:ASP:HB2	2:CV:218:ILE:HD11	1.64	0.78
2:CX:180:PRO:HD2	2:CX:189:HIS:CE1	2.18	0.78
3:DE:103:SER:CB	3:DE:159:PRO:HA	2.12	0.78
3:DG:103:SER:CB	3:DG:159:PRO:HA	2.12	0.78
3:DR:63:GLU:HG2	3:DR:201:LYS:HD3	1.63	0.78
3:DS:103:SER:CB	3:DS:159:PRO:HA	2.12	0.78
3:DV:103:SER:CB	3:DV:159:PRO:HA	2.12	0.78
3:DY:103:SER:CB	3:DY:159:PRO:HA	2.12	0.78
3:DQ:103:SER:CB	3:DQ:159:PRO:HA	2.12	0.78
1:A4:60:PHE:CE2	1:A4:167:VAL:HG11	2.18	0.78
1:A7:174:TRP:HB2	2:C8:188:LEU:HD23	1.65	0.78
1:AH:174:TRP:HB2	2:CH:188:LEU:HD23	1.65	0.78
1:AJ:170:PHE:HD2	1:AJ:222:ARG:CZ	1.95	0.78
1:AV:170:PHE:HD2	1:AV:222:ARG:CZ	1.95	0.78
1:Ah:170:PHE:HD2	1:Ah:222:ARG:CZ	1.95	0.78
2:C9:180:PRO:HD2	2:C9:189:HIS:CE1	2.19	0.78
2:CB:109:ASP:HB2	2:CB:218:ILE:HD11	1.64	0.78
2:CD:180:PRO:HD2	2:CD:189:HIS:CE1	2.19	0.78
2:CG:124:LEU:HD22	2:CG:196:ILE:HG22	1.66	0.78
2:CI:180:PRO:HD2	2:CI:189:HIS:CE1	2.19	0.78
2:CK:180:PRO:HD2	2:CK:189:HIS:CE1	2.19	0.78
2:CL:180:PRO:HD2	2:CL:189:HIS:CE1	2.18	0.78
2:CM:180:PRO:HD2	2:CM:189:HIS:CE1	2.19	0.78
2:CP:180:PRO:HD2	2:CP:189:HIS:CE1	2.19	0.78
2:CR:180:PRO:HD2	2:CR:189:HIS:CE1	2.19	0.78
2:CS:180:PRO:HD2	2:CS:189:HIS:CE1	2.18	0.78
2:CZ:154:GLN:O	2:CZ:157:VAL:HG12	1.83	0.78
2:Cd:104:VAL:CG1	2:Cd:222:VAL:HG22	2.06	0.78
2:Cd:180:PRO:HD2	2:Cd:189:HIS:CE1	2.19	0.78
2:CI:154:GLN:O	2:CI:157:VAL:HG12	1.83	0.78
2:Cn:44:PRO:HB2	2:Cn:47:VAL:CG2	2.13	0.78
2:Cw:109:ASP:HB2	2:Cw:218:ILE:HD11	1.64	0.78
3:Di:103:SER:CB	3:Di:159:PRO:HA	2.12	0.78
1:A0:60:PHE:CE2	1:A0:167:VAL:HG11	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:60:PHE:CE2	1:A5:167:VAL:HG11	2.18	0.78
1:A7:60:PHE:CE2	1:A7:167:VAL:HG11	2.18	0.78
1:AH:62:SER:HB2	1:AH:73:ASN:HD21	1.49	0.78
1:AU:174:TRP:HB2	2:CV:188:LEU:HD23	1.65	0.78
1:AX:60:PHE:CE2	1:AX:167:VAL:HG11	2.18	0.78
1:Ad:60:PHE:CE2	1:Ad:167:VAL:HG11	2.18	0.78
1:Ae:60:PHE:CE2	1:Ae:167:VAL:HG11	2.18	0.78
1:BG:60:PHE:CE2	1:BG:167:VAL:HG11	2.18	0.78
1:BI:60:PHE:CE2	1:BI:167:VAL:HG11	2.18	0.78
2:C4:109:ASP:HB2	2:C4:218:ILE:HD11	1.64	0.78
2:C5:154:GLN:O	2:C5:157:VAL:HG12	1.83	0.78
2:C8:154:GLN:O	2:C8:157:VAL:HG12	1.83	0.78
2:CI:104:VAL:CG1	2:CI:222:VAL:HG22	2.06	0.78
2:CI:154:GLN:O	2:CI:157:VAL:HG12	1.83	0.78
2:CL:109:ASP:HB2	2:CL:218:ILE:HD11	1.64	0.78
2:CN:180:PRO:HD2	2:CN:189:HIS:CE1	2.19	0.78
2:CU:124:LEU:HD22	2:CU:196:ILE:HG22	1.66	0.78
2:CV:154:GLN:O	2:CV:157:VAL:HG12	1.83	0.78
2:Ce:154:GLN:O	2:Ce:157:VAL:HG12	1.83	0.78
2:Cs:180:PRO:HD2	2:Cs:189:HIS:CE1	2.19	0.78
3:D0:103:SER:CB	3:D0:159:PRO:HA	2.12	0.78
3:D6:103:SER:CB	3:D6:159:PRO:HA	2.12	0.78
3:D9:103:SER:CB	3:D9:159:PRO:HA	2.12	0.78
3:DZ:103:SER:CB	3:DZ:159:PRO:HA	2.12	0.78
3:Db:103:SER:CB	3:Db:159:PRO:HA	2.12	0.78
1:A0:174:TRP:HB2	2:C1:188:LEU:HD23	1.65	0.78
1:AG:60:PHE:CE2	1:AG:167:VAL:HG11	2.18	0.78
1:AN:62:SER:HB2	1:AN:73:ASN:HD21	1.49	0.78
1:AT:60:PHE:CE2	1:AT:167:VAL:HG11	2.18	0.78
1:AV:60:PHE:CE2	1:AV:167:VAL:HG11	2.18	0.78
1:Ab:170:PHE:HD2	1:Ab:222:ARG:CZ	1.95	0.78
1:Ai:170:PHE:HD2	1:Ai:222:ARG:CZ	1.96	0.78
1:Aj:60:PHE:CE2	1:Aj:167:VAL:HG11	2.18	0.78
2:C4:180:PRO:HD2	2:C4:189:HIS:CE1	2.19	0.78
2:C5:109:ASP:HB2	2:C5:218:ILE:HD11	1.64	0.78
2:C5:180:PRO:HD2	2:C5:189:HIS:CE1	2.19	0.78
2:CV:180:PRO:HD2	2:CV:189:HIS:CE1	2.19	0.78
2:Cd:154:GLN:O	2:Cd:157:VAL:HG12	1.83	0.78
2:Ce:109:ASP:HB2	2:Ce:218:ILE:HD11	1.64	0.78
2:Ck:180:PRO:HD2	2:Ck:189:HIS:CE1	2.19	0.78
2:Co:44:PRO:HB2	2:Co:47:VAL:CG2	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cr:109:ASP:HB2	2:Cr:218:ILE:HD11	1.64	0.78
2:Cr:180:PRO:HD2	2:Cr:189:HIS:CE1	2.19	0.78
2:Cv:124:LEU:HD22	2:Cv:196:ILE:HG22	1.66	0.78
2:Cx:109:ASP:HB2	2:Cx:218:ILE:HD11	1.64	0.78
3:D2:103:SER:CB	3:D2:159:PRO:HA	2.12	0.78
3:D5:103:SER:CB	3:D5:159:PRO:HA	2.12	0.78
3:Da:63:GLU:HG2	3:Da:201:LYS:HD3	1.63	0.78
1:A1:13:THR:HB	3:D2:157:ASN:CB	2.09	0.78
1:A1:174:TRP:HB2	2:C2:188:LEU:HD23	1.65	0.78
1:AI:174:TRP:HB2	2:CI:188:LEU:HD23	1.65	0.78
1:AK:170:PHE:HD2	1:AK:222:ARG:CZ	1.95	0.78
1:AL:170:PHE:HD2	1:AL:222:ARG:CZ	1.95	0.78
1:BD:60:PHE:CE2	1:BD:167:VAL:HG11	2.18	0.78
1:BH:60:PHE:CE2	1:BH:167:VAL:HG11	2.18	0.78
2:C0:154:GLN:O	2:C0:157:VAL:HG12	1.83	0.78
2:C3:180:PRO:HD2	2:C3:189:HIS:CE1	2.19	0.78
2:C6:104:VAL:CG1	2:C6:222:VAL:HG22	2.06	0.78
2:C7:180:PRO:HD2	2:C7:189:HIS:CE1	2.19	0.78
2:C9:104:VAL:CG1	2:C9:222:VAL:HG22	2.06	0.78
2:CE:154:GLN:O	2:CE:157:VAL:HG12	1.83	0.78
2:CF:154:GLN:O	2:CF:157:VAL:HG12	1.83	0.78
2:CP:44:PRO:HB2	2:CP:47:VAL:CG2	2.13	0.78
2:CS:44:PRO:HB2	2:CS:47:VAL:CG2	2.13	0.78
2:CZ:124:LEU:HD22	2:CZ:196:ILE:HG22	1.66	0.78
2:CZ:180:PRO:HD2	2:CZ:189:HIS:CE1	2.19	0.78
2:Cb:154:GLN:O	2:Cb:157:VAL:HG12	1.83	0.78
2:Cc:180:PRO:HD2	2:Cc:189:HIS:CE1	2.19	0.78
2:Cl:180:PRO:HD2	2:Cl:189:HIS:CE1	2.19	0.78
2:Cm:44:PRO:HB2	2:Cm:47:VAL:CG2	2.13	0.78
2:Cv:154:GLN:O	2:Cv:157:VAL:HG12	1.83	0.78
2:Cx:154:GLN:O	2:Cx:157:VAL:HG12	1.83	0.78
3:D3:103:SER:CB	3:D3:159:PRO:HA	2.12	0.78
3:DF:103:SER:CB	3:DF:159:PRO:HA	2.12	0.78
3:DL:103:SER:CB	3:DL:159:PRO:HA	2.12	0.78
3:DX:103:SER:CB	3:DX:159:PRO:HA	2.12	0.78
3:Dp:103:SER:CB	3:Dp:159:PRO:HA	2.12	0.78
1:A6:62:SER:HB2	1:A6:73:ASN:HD21	1.49	0.78
1:AF:62:SER:HB2	1:AF:73:ASN:HD21	1.49	0.78
1:AK:62:SER:HB2	1:AK:73:ASN:HD21	1.49	0.78
1:AM:170:PHE:HD2	1:AM:222:ARG:CZ	1.95	0.78
1:AQ:60:PHE:CE2	1:AQ:167:VAL:HG11	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:174:TRP:HB2	2:CQ:188:LEU:HD23	1.65	0.78
1:AW:60:PHE:CE2	1:AW:167:VAL:HG11	2.18	0.78
1:AW:174:TRP:HB2	2:CX:188:LEU:HD23	1.65	0.78
1:Aa:60:PHE:CE2	1:Aa:167:VAL:HG11	2.18	0.78
1:Af:60:PHE:CE2	1:Af:167:VAL:HG11	2.18	0.78
1:Ao:62:SER:HB2	1:Ao:73:ASN:HD21	1.49	0.78
1:BC:62:SER:HB2	1:BC:73:ASN:HD21	1.49	0.78
2:C0:104:VAL:CG1	2:C0:222:VAL:HG22	2.06	0.78
2:C2:44:PRO:HB2	2:C2:47:VAL:CG2	2.13	0.78
2:C4:124:LEU:HD22	2:C4:196:ILE:HG22	1.66	0.78
2:C5:124:LEU:HD22	2:C5:196:ILE:HG22	1.66	0.78
2:CM:44:PRO:HB2	2:CM:47:VAL:CG2	2.13	0.78
2:CW:180:PRO:HD2	2:CW:189:HIS:CE1	2.19	0.78
2:Cb:104:VAL:CG1	2:Cb:222:VAL:HG22	2.06	0.78
2:Cf:180:PRO:HD2	2:Cf:189:HIS:CE1	2.19	0.78
2:Cr:124:LEU:HD22	2:Cr:196:ILE:HG22	1.66	0.78
2:Cs:104:VAL:CG1	2:Cs:222:VAL:HG22	2.06	0.78
3:D4:103:SER:CB	3:D4:159:PRO:HA	2.12	0.78
3:D8:63:GLU:HG2	3:D8:201:LYS:HD3	1.63	0.78
3:DD:103:SER:CB	3:DD:159:PRO:HA	2.12	0.78
1:A0:170:PHE:HD2	1:A0:222:ARG:CZ	1.96	0.78
1:A6:60:PHE:CE2	1:A6:167:VAL:HG11	2.19	0.78
1:A9:174:TRP:HB2	2:Ca:188:LEU:HD23	1.65	0.78
1:AI:60:PHE:CE2	1:AI:167:VAL:HG11	2.18	0.78
1:AO:60:PHE:CE2	1:AO:167:VAL:HG11	2.18	0.78
1:AU:60:PHE:CE2	1:AU:167:VAL:HG11	2.18	0.78
1:Ab:60:PHE:CE2	1:Ab:167:VAL:HG11	2.18	0.78
1:Ah:62:SER:HB2	1:Ah:73:ASN:HD21	1.49	0.78
1:Aj:62:SER:HB2	1:Aj:73:ASN:HD21	1.49	0.78
1:An:60:PHE:CE2	1:An:167:VAL:HG11	2.18	0.78
2:C1:124:LEU:HD22	2:C1:196:ILE:HG22	1.66	0.78
2:C2:124:LEU:HD22	2:C2:196:ILE:HG22	1.66	0.78
2:C3:124:LEU:HD22	2:C3:196:ILE:HG22	1.66	0.78
2:C4:154:GLN:O	2:C4:157:VAL:HG12	1.83	0.78
2:C6:124:LEU:HD22	2:C6:196:ILE:HG22	1.66	0.78
2:C8:124:LEU:HD22	2:C8:196:ILE:HG22	1.66	0.78
2:C9:154:GLN:O	2:C9:157:VAL:HG12	1.83	0.78
2:CL:154:GLN:O	2:CL:157:VAL:HG12	1.83	0.78
2:Cb:109:ASP:HB2	2:Cb:218:ILE:HD11	1.64	0.78
2:Ch:124:LEU:HD22	2:Ch:196:ILE:HG22	1.66	0.78
2:Cj:180:PRO:HD2	2:Cj:189:HIS:CE1	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ct:180:PRO:HD2	2:Ct:189:HIS:CE1	2.19	0.78
3:DP:103:SER:CB	3:DP:159:PRO:HA	2.12	0.78
3:Dd:63:GLU:HG2	3:Dd:201:LYS:HD3	1.63	0.78
1:A0:62:SER:HB2	1:A0:73:ASN:HD21	1.49	0.78
1:A1:60:PHE:CE2	1:A1:167:VAL:HG11	2.18	0.78
1:A1:62:SER:HB2	1:A1:73:ASN:HD21	1.49	0.78
1:A8:60:PHE:CE2	1:A8:167:VAL:HG11	2.18	0.78
1:A8:174:TRP:HB2	2:C9:188:LEU:HD23	1.65	0.78
1:AF:60:PHE:CE2	1:AF:167:VAL:HG11	2.18	0.78
1:AG:174:TRP:HB2	2:CG:188:LEU:HD23	1.65	0.78
1:AN:174:TRP:HB2	2:CN:188:LEU:HD23	1.65	0.78
1:Ac:60:PHE:CE2	1:Ac:167:VAL:HG11	2.18	0.78
1:Ak:60:PHE:CE2	1:Ak:167:VAL:HG11	2.18	0.78
2:C3:154:GLN:O	2:C3:157:VAL:HG12	1.83	0.78
2:C6:154:GLN:O	2:C6:157:VAL:HG12	1.83	0.78
2:CG:44:PRO:HB2	2:CG:47:VAL:CG2	2.13	0.78
2:CG:180:PRO:HD2	2:CG:189:HIS:CE1	2.18	0.78
2:CH:44:PRO:HB2	2:CH:47:VAL:CG2	2.13	0.78
2:Ca:44:PRO:HB2	2:Ca:47:VAL:CG2	2.13	0.78
2:Cb:180:PRO:HD2	2:Cb:189:HIS:CE1	2.19	0.78
2:Cg:104:VAL:CG1	2:Cg:222:VAL:HG22	2.06	0.78
2:Ch:109:ASP:HB2	2:Ch:218:ILE:HD11	1.64	0.78
2:Cn:180:PRO:HD2	2:Cn:189:HIS:CE1	2.19	0.78
2:Cs:109:ASP:HB2	2:Cs:218:ILE:HD11	1.64	0.78
2:Cs:154:GLN:O	2:Cs:157:VAL:HG12	1.83	0.78
2:Cw:154:GLN:O	2:Cw:157:VAL:HG12	1.83	0.78
3:DQ:103:SER:CB	3:DQ:159:PRO:HA	2.12	0.78
3:Dh:103:SER:CB	3:Dh:159:PRO:HA	2.12	0.78
3:EB:63:GLU:HG2	3:EB:201:LYS:HD3	1.63	0.78
1:A4:174:TRP:HB2	2:C5:188:LEU:HD23	1.65	0.78
1:A5:62:SER:HB2	1:A5:73:ASN:HD21	1.49	0.78
1:A6:174:TRP:HB2	2:C7:188:LEU:HD23	1.65	0.78
1:AD:62:SER:HB2	1:AD:73:ASN:HD21	1.49	0.78
1:AD:174:TRP:HB2	2:CD:188:LEU:HD23	1.65	0.78
1:Aa:170:PHE:HD2	1:Aa:222:ARG:CZ	1.95	0.78
1:Aa:174:TRP:HB2	2:Cc:188:LEU:HD23	1.65	0.78
1:Ad:121:LEU:CD1	1:Ae:206:GLY:HA3	2.14	0.78
1:Ai:60:PHE:CE2	1:Ai:167:VAL:HG11	2.18	0.78
1:Am:170:PHE:HD2	1:Am:222:ARG:CZ	1.95	0.78
1:An:174:TRP:HB2	2:Cb:188:LEU:HD23	1.65	0.78
1:Ao:174:TRP:HB2	2:CS:188:LEU:HD23	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:62:SER:HB2	1:BE:73:ASN:HD21	1.49	0.78
1:BE:174:TRP:HB2	2:Ct:188:LEU:HD23	1.65	0.78
2:C3:109:ASP:HB2	2:C3:218:ILE:HD11	1.64	0.78
2:C7:124:LEU:HD22	2:C7:196:ILE:HG22	1.66	0.78
2:C8:44:PRO:HB2	2:C8:47:VAL:CG2	2.13	0.78
2:CI:109:ASP:HB2	2:CI:218:ILE:HD11	1.64	0.78
2:CR:154:GLN:O	2:CR:157:VAL:HG12	1.83	0.78
2:CX:180:PRO:HD2	2:CX:189:HIS:CE1	2.19	0.78
2:Cf:44:PRO:HB2	2:Cf:47:VAL:CG2	2.13	0.78
2:Ck:44:PRO:HB2	2:Ck:47:VAL:CG2	2.13	0.78
2:Cm:154:GLN:O	2:Cm:157:VAL:HG12	1.83	0.78
2:Cp:124:LEU:HD22	2:Cp:196:ILE:HG22	1.66	0.78
3:DB:103:SER:CB	3:DB:159:PRO:HA	2.12	0.78
1:A3:60:PHE:CE2	1:A3:167:VAL:HG11	2.18	0.77
1:A3:206:GLY:HA3	1:A7:121:LEU:CD1	2.15	0.77
1:A4:121:LEU:CD1	1:A5:206:GLY:HA3	2.15	0.77
1:A9:121:LEU:CD1	1:An:206:GLY:HA3	2.14	0.77
1:AA:206:GLY:HA3	1:AE:121:LEU:CD1	2.14	0.77
1:AB:62:SER:HB2	1:AB:73:ASN:HD21	1.49	0.77
1:AE:62:SER:HB2	1:AE:73:ASN:HD21	1.49	0.77
1:AS:60:PHE:CE2	1:AS:167:VAL:HG11	2.18	0.77
1:Ae:121:LEU:CD1	1:Af:206:GLY:HA3	2.14	0.77
1:Ah:174:TRP:HB2	2:Cj:188:LEU:HD23	1.65	0.77
1:Aj:170:PHE:HD2	1:Aj:222:ARG:CZ	1.96	0.77
1:BD:62:SER:HB2	1:BD:73:ASN:HD21	1.49	0.77
1:BG:174:TRP:HB2	2:Cv:188:LEU:HD23	1.65	0.77
2:C7:44:PRO:HB2	2:C7:47:VAL:CG2	2.13	0.77
2:CD:154:GLN:O	2:CD:157:VAL:HG12	1.83	0.77
2:CE:180:PRO:HD2	2:CE:189:HIS:CE1	2.19	0.77
2:CF:124:LEU:HD22	2:CF:196:ILE:HG22	1.66	0.77
2:CH:180:PRO:HD2	2:CH:189:HIS:CE1	2.19	0.77
2:CN:104:VAL:CG1	2:CN:222:VAL:HG22	2.06	0.77
2:CV:44:PRO:HB2	2:CV:47:VAL:CG2	2.13	0.77
2:CV:124:LEU:HD22	2:CV:196:ILE:HG22	1.66	0.77
2:Ch:180:PRO:HD2	2:Ch:189:HIS:CE1	2.19	0.77
2:Cq:109:ASP:HB2	2:Cq:218:ILE:HD11	1.64	0.77
1:A2:174:TRP:HB2	2:C3:188:LEU:HD23	1.65	0.77
1:A3:121:LEU:CD1	1:A4:206:GLY:HA3	2.15	0.77
1:AH:60:PHE:CE2	1:AH:167:VAL:HG11	2.18	0.77
1:AL:62:SER:HB2	1:AL:73:ASN:HD21	1.49	0.77
1:AP:121:LEU:CD1	1:AQ:206:GLY:HA3	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:62:SER:HB2	1:AR:73:ASN:HD21	1.49	0.77
1:Aa:121:LEU:CD1	1:Ab:206:GLY:HA3	2.15	0.77
1:Ab:86:ILE:HD12	1:Ab:86:ILE:N	2.00	0.77
1:Ac:62:SER:HB2	1:Ac:73:ASN:HD21	1.49	0.77
1:Ac:121:LEU:CD1	1:Ad:206:GLY:HA3	2.15	0.77
1:Ac:206:GLY:HA3	1:Ag:121:LEU:CD1	2.15	0.77
1:Ao:86:ILE:HD12	1:Ao:86:ILE:N	2.00	0.77
1:BC:60:PHE:CE2	1:BC:167:VAL:HG11	2.18	0.77
1:BE:121:LEU:CD1	1:BF:206:GLY:HA3	2.15	0.77
1:BG:121:LEU:CD1	1:BH:206:GLY:HA3	2.15	0.77
1:BH:62:SER:HB2	1:BH:73:ASN:HD21	1.49	0.77
1:BH:121:LEU:CD1	1:BI:206:GLY:HA3	2.15	0.77
2:C0:124:LEU:HD22	2:C0:196:ILE:HG22	1.66	0.77
2:CA:124:LEU:HD22	2:CA:196:ILE:HG22	1.66	0.77
2:CB:44:PRO:HB2	2:CB:47:VAL:CG2	2.13	0.77
2:CC:124:LEU:HD22	2:CC:196:ILE:HG22	1.66	0.77
2:CD:44:PRO:HB2	2:CD:47:VAL:CG2	2.13	0.77
2:CH:109:ASP:HB2	2:CH:218:ILE:HD11	1.64	0.77
2:CH:124:LEU:HD22	2:CH:196:ILE:HG22	1.66	0.77
2:CT:180:PRO:HD2	2:CT:189:HIS:CE1	2.19	0.77
2:Cg:44:PRO:HB2	2:Cg:47:VAL:CG2	2.13	0.77
2:Cg:180:PRO:HD2	2:Cg:189:HIS:CE1	2.19	0.77
2:Cj:124:LEU:HD22	2:Cj:196:ILE:HG22	1.66	0.77
2:Cl:154:GLN:O	2:Cl:157:VAL:HG12	1.83	0.77
2:Cp:180:PRO:HD2	2:Cp:189:HIS:CE1	2.19	0.77
2:Cv:180:PRO:HD2	2:Cv:189:HIS:CE1	2.19	0.77
1:A5:170:PHE:HD2	1:A5:222:ARG:CZ	1.95	0.77
1:A7:86:ILE:HD12	1:A7:86:ILE:N	2.00	0.77
1:AB:174:TRP:HB2	2:CB:188:LEU:HD23	1.65	0.77
1:AM:60:PHE:CE2	1:AM:167:VAL:HG11	2.18	0.77
1:AM:62:SER:HB2	1:AM:73:ASN:HD21	1.49	0.77
1:AP:62:SER:HB2	1:AP:73:ASN:HD21	1.49	0.77
1:AP:174:TRP:HB2	2:CP:188:LEU:HD23	1.65	0.77
1:AU:121:LEU:CD1	1:AV:206:GLY:HA3	2.14	0.77
1:AZ:60:PHE:CE2	1:AZ:167:VAL:HG11	2.18	0.77
1:Ae:86:ILE:HD12	1:Ae:86:ILE:N	2.00	0.77
1:Aj:121:LEU:CD1	1:Ak:206:GLY:HA3	2.15	0.77
1:BC:174:TRP:HB2	2:Cr:188:LEU:HD23	1.65	0.77
1:BF:174:TRP:HB2	2:Cu:188:LEU:HD23	1.65	0.77
2:C0:180:PRO:HD2	2:C0:189:HIS:CE1	2.19	0.77
2:C1:44:PRO:HB2	2:C1:47:VAL:CG2	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:154:GLN:O	2:CG:157:VAL:HG12	1.83	0.77
2:CQ:104:VAL:CG1	2:CQ:222:VAL:HG22	2.06	0.77
2:CV:109:ASP:HB2	2:CV:218:ILE:HD11	1.64	0.77
2:CW:124:LEU:HD22	2:CW:196:ILE:HG22	1.66	0.77
2:Co:180:PRO:HD2	2:Co:189:HIS:CE1	2.19	0.77
2:Cq:124:LEU:HD22	2:Cq:196:ILE:HG22	1.66	0.77
3:Dj:103:SER:CB	3:Dj:159:PRO:HA	2.12	0.77
1:A1:170:PHE:HD2	1:A1:222:ARG:CZ	1.96	0.77
1:A5:121:LEU:CD1	1:A6:206:GLY:HA3	2.15	0.77
1:A5:174:TRP:HB2	2:C6:188:LEU:HD23	1.65	0.77
1:A8:206:GLY:HA3	1:Ab:121:LEU:CD1	2.15	0.77
1:A9:86:ILE:HD12	1:A9:86:ILE:N	2.00	0.77
1:AA:86:ILE:N	1:AA:86:ILE:HD12	2.00	0.77
1:AH:86:ILE:HD12	1:AH:86:ILE:N	2.00	0.77
1:AR:60:PHE:CE2	1:AR:167:VAL:HG11	2.18	0.77
1:AS:62:SER:HB2	1:AS:73:ASN:HD21	1.49	0.77
1:AV:121:LEU:CD1	1:AW:206:GLY:HA3	2.15	0.77
1:AY:86:ILE:HD12	1:AY:86:ILE:N	2.00	0.77
1:Af:174:TRP:HB2	2:Ch:188:LEU:HD23	1.65	0.77
1:Ag:62:SER:HB2	1:Ag:73:ASN:HD21	1.49	0.77
1:Ak:86:ILE:HD12	1:Ak:86:ILE:N	2.00	0.77
2:C2:154:GLN:O	2:C2:157:VAL:HG12	1.83	0.77
2:CA:44:PRO:HB2	2:CA:47:VAL:CG2	2.13	0.77
2:CC:180:PRO:HD2	2:CC:189:HIS:CE1	2.19	0.77
2:CJ:180:PRO:HD2	2:CJ:189:HIS:CE1	2.19	0.77
2:CW:109:ASP:HB2	2:CW:218:ILE:HD11	1.64	0.77
2:Cu:104:VAL:CG1	2:Cu:222:VAL:HG22	2.06	0.77
1:A1:86:ILE:HD12	1:A1:86:ILE:N	2.00	0.77
1:A6:121:LEU:CD1	1:A7:206:GLY:HA3	2.15	0.77
1:AA:62:SER:HB2	1:AA:73:ASN:HD21	1.49	0.77
1:AL:86:ILE:HD12	1:AL:86:ILE:N	2.00	0.77
1:AN:86:ILE:HD12	1:AN:86:ILE:N	2.00	0.77
1:AR:174:TRP:HB2	2:CR:188:LEU:HD23	1.65	0.77
1:AT:86:ILE:HD12	1:AT:86:ILE:N	2.00	0.77
1:AW:121:LEU:CD1	1:AX:206:GLY:HA3	2.15	0.77
1:Ad:174:TRP:HB2	2:Cf:188:LEU:HD23	1.65	0.77
1:Ae:62:SER:HB2	1:Ae:73:ASN:HD21	1.49	0.77
1:BF:86:ILE:HD12	1:BF:86:ILE:N	2.00	0.77
1:BH:86:ILE:HD12	1:BH:86:ILE:N	2.00	0.77
2:C4:104:VAL:CG1	2:C4:222:VAL:HG22	2.06	0.77
2:C6:180:PRO:HD2	2:C6:189:HIS:CE1	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CJ:124:LEU:HD22	2:CJ:196:ILE:HG22	1.66	0.77
2:CN:44:PRO:HB2	2:CN:47:VAL:CG2	2.13	0.77
2:CY:124:LEU:HD22	2:CY:196:ILE:HG22	1.66	0.77
2:Cc:124:LEU:HD22	2:Cc:196:ILE:HG22	1.66	0.77
2:Ch:104:VAL:CG1	2:Ch:222:VAL:HG22	2.06	0.77
2:Cm:124:LEU:HD22	2:Cm:196:ILE:HG22	1.66	0.77
2:Cq:154:GLN:O	2:Cq:157:VAL:HG12	1.83	0.77
2:Cq:180:PRO:HD2	2:Cq:189:HIS:CE1	2.18	0.77
2:Cw:124:LEU:HD22	2:Cw:196:ILE:HG22	1.66	0.77
2:Cw:180:PRO:HD2	2:Cw:189:HIS:CE1	2.19	0.77
1:AL:121:LEU:CD1	1:AM:206:GLY:HA3	2.15	0.77
1:AM:121:LEU:CD1	1:AN:206:GLY:HA3	2.15	0.77
1:AO:86:ILE:HD12	1:AO:86:ILE:N	2.00	0.77
1:AQ:86:ILE:HD12	1:AQ:86:ILE:N	2.00	0.77
1:AY:62:SER:HB2	1:AY:73:ASN:HD21	1.49	0.77
1:AZ:86:ILE:HD12	1:AZ:86:ILE:N	2.00	0.77
1:Ac:86:ILE:HD12	1:Ac:86:ILE:N	2.00	0.77
1:Ad:170:PHE:HD2	1:Ad:222:ARG:CZ	1.95	0.77
1:Ak:62:SER:HB2	1:Ak:73:ASN:HD21	1.49	0.77
1:BA:174:TRP:HB2	2:Cp:188:LEU:HD23	1.65	0.77
1:BB:121:LEU:CD1	1:BC:206:GLY:HA3	2.15	0.77
1:BE:86:ILE:HD12	1:BE:86:ILE:N	2.00	0.77
1:BI:86:ILE:HD12	1:BI:86:ILE:N	2.00	0.77
2:C0:44:PRO:HB2	2:C0:47:VAL:CG2	2.13	0.77
2:C9:124:LEU:HD22	2:C9:196:ILE:HG22	1.66	0.77
2:CD:124:LEU:HD22	2:CD:196:ILE:HG22	1.66	0.77
2:CE:109:ASP:HB2	2:CE:218:ILE:HD11	1.64	0.77
2:CF:44:PRO:HB2	2:CF:47:VAL:CG2	2.13	0.77
2:CO:180:PRO:HD2	2:CO:189:HIS:CE1	2.19	0.77
2:CS:124:LEU:HD22	2:CS:196:ILE:HG22	1.66	0.77
2:Ce:180:PRO:HD2	2:Ce:189:HIS:CE1	2.19	0.77
2:Cf:124:LEU:HD22	2:Cf:196:ILE:HG22	1.66	0.77
2:Cr:44:PRO:HB2	2:Cr:47:VAL:CG2	2.13	0.77
2:Cv:44:PRO:HB2	2:Cv:47:VAL:CG2	2.13	0.77
1:AC:60:PHE:CE2	1:AC:167:VAL:HG11	2.18	0.77
1:AG:86:ILE:HD12	1:AG:86:ILE:N	2.00	0.77
1:AI:62:SER:HB2	1:AI:73:ASN:HD21	1.49	0.77
1:AJ:60:PHE:CE2	1:AJ:167:VAL:HG11	2.18	0.77
1:AK:121:LEU:CD1	1:AL:206:GLY:HA3	2.15	0.77
1:AS:86:ILE:HD12	1:AS:86:ILE:N	2.00	0.77
1:AT:121:LEU:CD1	1:AU:206:GLY:HA3	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:86:ILE:HD12	1:AW:86:ILE:N	2.00	0.77
1:Af:121:LEU:CD1	1:Ag:206:GLY:HA3	2.15	0.77
1:Ai:62:SER:HB2	1:Ai:73:ASN:HD21	1.49	0.77
1:Al:60:PHE:CE2	1:Al:167:VAL:HG11	2.19	0.77
1:BF:62:SER:HB2	1:BF:73:ASN:HD21	1.49	0.77
2:C6:44:PRO:HB2	2:C6:47:VAL:CG2	2.13	0.77
2:CQ:124:LEU:HD22	2:CQ:196:ILE:HG22	1.66	0.77
2:Cu:124:LEU:HD22	2:Cu:196:ILE:HG22	1.66	0.77
2:Cx:124:LEU:HD22	2:Cx:196:ILE:HG22	1.66	0.77
1:A0:86:ILE:HD12	1:A0:86:ILE:N	2.00	0.77
1:A2:62:SER:HB2	1:A2:73:ASN:HD21	1.49	0.77
1:AH:121:LEU:CD1	1:AI:206:GLY:HA3	2.15	0.77
1:AL:174:TRP:HB2	2:CL:188:LEU:HD23	1.65	0.77
1:AN:60:PHE:CE2	1:AN:167:VAL:HG11	2.18	0.77
1:Aa:62:SER:HB2	1:Aa:73:ASN:HD21	1.49	0.77
1:Ad:62:SER:HB2	1:Ad:73:ASN:HD21	1.49	0.77
1:Ai:86:ILE:HD12	1:Ai:86:ILE:N	2.00	0.77
1:BD:86:ILE:HD12	1:BD:86:ILE:N	2.00	0.77
2:CF:180:PRO:HD2	2:CF:189:HIS:CE1	2.19	0.77
2:CN:124:LEU:HD22	2:CN:196:ILE:HG22	1.66	0.77
2:CQ:180:PRO:HD2	2:CQ:189:HIS:CE1	2.19	0.77
2:CR:124:LEU:HD22	2:CR:196:ILE:HG22	1.66	0.77
2:Cu:44:PRO:HB2	2:Cu:47:VAL:CG2	2.13	0.77
1:A2:60:PHE:CE2	1:A2:167:VAL:HG11	2.18	0.77
1:A3:174:TRP:HB2	2:C4:188:LEU:HD23	1.65	0.77
1:A4:62:SER:HB2	1:A4:73:ASN:HD21	1.49	0.77
1:A9:62:SER:HB2	1:A9:73:ASN:HD21	1.49	0.77
1:AB:86:ILE:HD12	1:AB:86:ILE:N	2.00	0.77
1:AD:121:LEU:CD1	1:AE:206:GLY:HA3	2.15	0.77
1:AK:206:GLY:HA3	1:AO:121:LEU:CD1	2.15	0.77
1:AZ:174:TRP:HB2	2:C0:188:LEU:HD23	1.65	0.77
1:Aa:86:ILE:HD12	1:Aa:86:ILE:N	2.00	0.77
1:Ai:121:LEU:CD1	1:Aj:206:GLY:HA3	2.15	0.77
1:BB:86:ILE:HD12	1:BB:86:ILE:N	2.00	0.77
2:Co:124:LEU:HD22	2:Co:196:ILE:HG22	1.66	0.77
2:Cu:180:PRO:HD2	2:Cu:189:HIS:CE1	2.19	0.77
1:A3:62:SER:HB2	1:A3:73:ASN:HD21	1.49	0.77
1:A4:86:ILE:HD12	1:A4:86:ILE:N	2.00	0.77
1:AA:60:PHE:CE2	1:AA:167:VAL:HG11	2.18	0.77
1:AA:174:TRP:HB2	2:CA:188:LEU:HD23	1.65	0.77
1:AC:62:SER:HB2	1:AC:73:ASN:HD21	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:62:SER:HB2	1:AG:73:ASN:HD21	1.49	0.77
1:AO:174:TRP:HB2	2:CO:188:LEU:HD23	1.65	0.77
1:AU:62:SER:HB2	1:AU:73:ASN:HD21	1.49	0.77
1:AX:62:SER:HB2	1:AX:73:ASN:HD21	1.49	0.77
1:AX:86:ILE:HD12	1:AX:86:ILE:N	2.00	0.77
1:Ab:62:SER:HB2	1:Ab:73:ASN:HD21	1.49	0.77
1:Al:62:SER:HB2	1:Al:73:ASN:HD21	1.49	0.77
1:Al:174:TRP:HB2	2:Cn:188:LEU:HD23	1.65	0.77
1:An:62:SER:HB2	1:An:73:ASN:HD21	1.49	0.77
1:An:86:ILE:HD12	1:An:86:ILE:N	2.00	0.77
1:BC:121:LEU:CD1	1:BD:206:GLY:HA3	2.15	0.77
1:BF:121:LEU:CD1	1:BG:206:GLY:HA3	2.15	0.77
1:BG:86:ILE:HD12	1:BG:86:ILE:N	2.00	0.77
2:CI:124:LEU:HD22	2:CI:196:ILE:HG22	1.66	0.77
2:CU:44:PRO:HB2	2:CU:47:VAL:CG2	2.13	0.77
2:CU:180:PRO:HD2	2:CU:189:HIS:CE1	2.19	0.77
2:CY:180:PRO:HD2	2:CY:189:HIS:CE1	2.19	0.77
2:Cl:104:VAL:CG1	2:Cl:222:VAL:HG22	2.06	0.77
2:Cl:124:LEU:HD22	2:Cl:196:ILE:HG22	1.66	0.77
1:A2:86:ILE:HD12	1:A2:86:ILE:N	2.00	0.76
1:AK:174:TRP:HB2	2:CK:188:LEU:HD23	1.65	0.76
1:AM:86:ILE:HD12	1:AM:86:ILE:N	2.00	0.76
1:AR:86:ILE:HD12	1:AR:86:ILE:N	2.00	0.76
1:AV:86:ILE:HD12	1:AV:86:ILE:N	2.00	0.76
1:Ah:206:GLY:HA3	1:Al:121:LEU:CD1	2.15	0.76
1:Ak:174:TRP:HB2	2:Cm:188:LEU:HD23	1.65	0.76
1:Am:86:ILE:HD12	1:Am:86:ILE:N	2.00	0.76
2:CM:124:LEU:HD22	2:CM:196:ILE:HG22	1.66	0.76
2:CR:44:PRO:HB2	2:CR:47:VAL:CG2	2.13	0.76
2:CX:44:PRO:HB2	2:CX:47:VAL:CG2	2.13	0.76
2:Ct:124:LEU:HD22	2:Ct:196:ILE:HG22	1.66	0.76
2:Cv:104:VAL:CG1	2:Cv:222:VAL:HG22	2.06	0.76
1:A8:86:ILE:HD12	1:A8:86:ILE:N	2.00	0.76
1:AF:174:TRP:HB2	2:CF:188:LEU:HD23	1.65	0.76
1:AF:206:GLY:HA3	1:AJ:121:LEU:CD1	2.15	0.76
1:Aj:86:ILE:HD12	1:Aj:86:ILE:N	2.00	0.76
1:BD:174:TRP:HB2	2:Cs:188:LEU:HD23	1.65	0.76
1:AQ:62:SER:HB2	1:AQ:73:ASN:HD21	1.49	0.76
1:AY:121:LEU:CD1	1:AZ:206:GLY:HA3	2.15	0.76
1:BA:86:ILE:HD12	1:BA:86:ILE:N	2.00	0.76
2:CE:44:PRO:HB2	2:CE:47:VAL:CG2	2.13	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:104:VAL:CG1	2:CM:222:VAL:HG22	2.06	0.76
2:Cs:213:MET:HE2	2:Cs:215:VAL:HG22	1.68	0.76
1:Ag:86:ILE:HD12	1:Ag:86:ILE:N	2.00	0.76
1:Ak:121:LEU:CD1	1:Al:206:GLY:HA3	2.15	0.76
1:Am:60:PHE:CE2	1:Am:167:VAL:HG11	2.18	0.76
1:Am:62:SER:HB2	1:Am:73:ASN:HD21	1.49	0.76
1:Am:206:GLY:HA3	1:BD:121:LEU:CD1	2.15	0.76
1:BA:62:SER:HB2	1:BA:73:ASN:HD21	1.49	0.76
2:C3:213:MET:HE2	2:C3:215:VAL:HG22	1.68	0.76
2:CE:213:MET:HE2	2:CE:215:VAL:HG22	1.68	0.76
2:CT:124:LEU:HD22	2:CT:196:ILE:HG22	1.66	0.76
2:CW:44:PRO:HB2	2:CW:47:VAL:CG2	2.13	0.76
2:Cb:213:MET:HE2	2:Cb:215:VAL:HG22	1.68	0.76
2:Cq:213:MET:HE2	2:Cq:215:VAL:HG22	1.68	0.76
1:A2:121:LEU:CD1	1:AY:206:GLY:HA3	2.15	0.76
1:AN:121:LEU:CD1	1:AO:206:GLY:HA3	2.15	0.76
1:AR:121:LEU:CD1	1:Ao:206:GLY:HA3	2.15	0.76
1:AT:174:TRP:HB2	2:CU:188:LEU:HD23	1.65	0.76
1:AU:86:ILE:HD12	1:AU:86:ILE:N	2.00	0.76
1:AV:62:SER:HB2	1:AV:73:ASN:HD21	1.49	0.76
1:AW:62:SER:HB2	1:AW:73:ASN:HD21	1.49	0.76
1:Aa:206:GLY:HA3	1:An:121:LEU:CD1	2.15	0.76
1:Ah:86:ILE:HD12	1:Ah:86:ILE:N	2.00	0.76
2:C5:213:MET:HE2	2:C5:215:VAL:HG22	1.68	0.76
2:CO:124:LEU:HD22	2:CO:196:ILE:HG22	1.66	0.76
2:CV:104:VAL:CG1	2:CV:222:VAL:HG22	2.06	0.76
2:Ce:124:LEU:HD22	2:Ce:196:ILE:HG22	1.66	0.76
2:Ce:213:MET:HE2	2:Ce:215:VAL:HG22	1.68	0.76
2:Cg:213:MET:HE2	2:Cg:215:VAL:HG22	1.68	0.76
2:Ci:124:LEU:HD22	2:Ci:196:ILE:HG22	1.66	0.76
2:Cl:44:PRO:HB2	2:Cl:47:VAL:CG2	2.13	0.76
2:Cv:213:MET:HE2	2:Cv:215:VAL:HG22	1.68	0.76
2:Cw:44:PRO:HB2	2:Cw:47:VAL:CG2	2.13	0.76
1:A5:86:ILE:HD12	1:A5:86:ILE:N	2.00	0.76
1:AA:121:LEU:CD1	1:AB:206:GLY:HA3	2.15	0.76
1:AC:86:ILE:HD12	1:AC:86:ILE:N	2.00	0.76
1:AF:86:ILE:HD12	1:AF:86:ILE:N	2.00	0.76
1:AG:121:LEU:CD1	1:AH:206:GLY:HA3	2.15	0.76
1:AS:206:GLY:HA3	1:Ao:121:LEU:CD1	2.15	0.76
1:AY:174:TRP:HB2	2:CZ:188:LEU:HD23	1.65	0.76
1:AZ:62:SER:HB2	1:AZ:73:ASN:HD21	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:121:LEU:CD1	1:BA:206:GLY:HA3	2.15	0.76
1:BA:121:LEU:CD1	1:BB:206:GLY:HA3	2.15	0.76
1:BC:86:ILE:HD12	1:BC:86:ILE:N	2.00	0.76
2:C0:213:MET:HE2	2:C0:215:VAL:HG22	1.68	0.76
2:CB:213:MET:HE2	2:CB:215:VAL:HG22	1.68	0.76
2:CG:213:MET:HE2	2:CG:215:VAL:HG22	1.68	0.76
2:CI:44:PRO:HB2	2:CI:47:VAL:CG2	2.13	0.76
2:CI:213:MET:HE2	2:CI:215:VAL:HG22	1.68	0.76
2:CL:213:MET:HE2	2:CL:215:VAL:HG22	1.68	0.76
2:CT:44:PRO:HB2	2:CT:47:VAL:CG2	2.13	0.76
2:Cd:213:MET:HE2	2:Cd:215:VAL:HG22	1.68	0.76
2:Cq:44:PRO:HB2	2:Cq:47:VAL:CG2	2.13	0.76
2:Cs:44:PRO:HB2	2:Cs:47:VAL:CG2	2.13	0.76
1:AB:121:LEU:CD1	1:AC:206:GLY:HA3	2.15	0.76
1:AE:86:ILE:HD12	1:AE:86:ILE:N	2.00	0.76
1:AK:86:ILE:HD12	1:AK:86:ILE:N	2.00	0.76
1:BI:62:SER:HB2	1:BI:73:ASN:HD21	1.49	0.76
2:Cd:124:LEU:HD22	2:Cd:196:ILE:HG22	1.66	0.76
2:Cg:124:LEU:HD22	2:Cg:196:ILE:HG22	1.66	0.76
2:Cs:124:LEU:HD22	2:Cs:196:ILE:HG22	1.66	0.76
1:AP:206:GLY:HA3	1:AS:121:LEU:CD1	2.15	0.76
1:Aj:174:TRP:HB2	2:Cl:188:LEU:HD23	1.65	0.76
1:BG:62:SER:HB2	1:BG:73:ASN:HD21	1.49	0.76
2:CP:124:LEU:HD22	2:CP:196:ILE:HG22	1.66	0.76
2:CQ:213:MET:HE2	2:CQ:215:VAL:HG22	1.68	0.76
2:CZ:44:PRO:HB2	2:CZ:47:VAL:CG2	2.13	0.76
2:Cm:213:MET:HE2	2:Cm:215:VAL:HG22	1.68	0.76
2:Cx:44:PRO:HB2	2:Cx:47:VAL:CG2	2.13	0.76
1:A6:86:ILE:HD12	1:A6:86:ILE:N	2.00	0.76
1:A7:62:SER:HB2	1:A7:73:ASN:HD21	1.49	0.76
1:AI:86:ILE:HD12	1:AI:86:ILE:N	2.00	0.76
1:AP:86:ILE:HD12	1:AP:86:ILE:N	2.00	0.76
1:AP:223:PRO:HB3	2:CP:154:GLN:HB3	1.68	0.76
1:Af:86:ILE:HD12	1:Af:86:ILE:N	2.00	0.76
2:CL:124:LEU:HD22	2:CL:196:ILE:HG22	1.66	0.76
2:CO:44:PRO:HB2	2:CO:47:VAL:CG2	2.13	0.76
1:A3:86:ILE:HD12	1:A3:86:ILE:N	2.00	0.76
1:AB:223:PRO:HB3	2:CB:154:GLN:HB3	1.68	0.76
1:AE:164:TRP:HE1	1:AE:187:LEU:HD11	1.51	0.76
1:AO:223:PRO:HB3	2:CO:154:GLN:HB3	1.68	0.76
1:AX:164:TRP:HE1	1:AX:187:LEU:HD11	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:174:TRP:HB2	2:CY:188:LEU:HD23	1.65	0.76
2:CE:124:LEU:HD22	2:CE:196:ILE:HG22	1.66	0.76
2:CS:213:MET:HE2	2:CS:215:VAL:HG22	1.68	0.76
2:Ch:44:PRO:HB2	2:Ch:47:VAL:CG2	2.13	0.76
2:Cj:213:MET:HE2	2:Cj:215:VAL:HG22	1.68	0.76
2:Cn:124:LEU:HD22	2:Cn:196:ILE:HG22	1.66	0.76
2:Cu:213:MET:HE2	2:Cu:215:VAL:HG22	1.68	0.76
1:A8:62:SER:HB2	1:A8:73:ASN:HD21	1.49	0.75
1:AD:223:PRO:HB3	2:CD:154:GLN:HB3	1.68	0.75
1:AK:223:PRO:HB3	2:CK:154:GLN:HB3	1.68	0.75
1:AT:62:SER:HB2	1:AT:73:ASN:HD21	1.49	0.75
1:AY:223:PRO:HB3	2:CZ:154:GLN:HB3	1.69	0.75
1:Ad:86:ILE:HD12	1:Ad:86:ILE:N	2.00	0.75
1:Af:62:SER:HB2	1:Af:73:ASN:HD21	1.49	0.75
1:Al:86:ILE:N	1:Al:86:ILE:HD12	2.00	0.75
1:Am:164:TRP:HE1	1:Am:187:LEU:HD11	1.52	0.75
2:C6:213:MET:HE2	2:C6:215:VAL:HG22	1.68	0.75
2:CC:44:PRO:HB2	2:CC:47:VAL:CG2	2.13	0.75
2:CU:213:MET:HE2	2:CU:215:VAL:HG22	1.68	0.75
2:CW:213:MET:HE2	2:CW:215:VAL:HG22	1.68	0.75
2:CX:124:LEU:HD22	2:CX:196:ILE:HG22	1.66	0.75
2:Ca:124:LEU:HD22	2:Ca:196:ILE:HG22	1.66	0.75
2:Ck:124:LEU:HD22	2:Ck:196:ILE:HG22	1.66	0.75
2:Cn:213:MET:HE2	2:Cn:215:VAL:HG22	1.68	0.75
1:A0:206:GLY:HA3	1:AZ:121:LEU:CD1	2.15	0.75
1:A1:121:LEU:CD1	1:A2:206:GLY:HA3	2.15	0.75
1:AC:121:LEU:CD1	1:AD:206:GLY:HA3	2.15	0.75
1:AF:121:LEU:CD1	1:AG:206:GLY:HA3	2.15	0.75
1:Ag:223:PRO:HB3	2:Ci:154:GLN:HB3	1.69	0.75
1:Aj:223:PRO:HB3	2:Cl:154:GLN:HB3	1.69	0.75
1:BD:223:PRO:HB3	2:Cs:154:GLN:HB3	1.69	0.75
1:BI:223:PRO:HB3	2:Cx:154:GLN:HB3	1.69	0.75
2:C9:213:MET:HE2	2:C9:215:VAL:HG22	1.68	0.75
2:CT:213:MET:HE2	2:CT:215:VAL:HG22	1.68	0.75
1:A9:223:PRO:HB3	2:Ca:154:GLN:HB3	1.69	0.75
1:AJ:86:ILE:HD12	1:AJ:86:ILE:N	2.00	0.75
1:AN:223:PRO:HB3	2:CN:154:GLN:HB3	1.69	0.75
1:Ae:223:PRO:HB3	2:Cg:154:GLN:HB3	1.68	0.75
1:Am:101:PHE:HD2	1:Am:143:VAL:CG1	2.00	0.75
1:BH:223:PRO:HB3	2:Cw:154:GLN:HB3	1.68	0.75
2:CE:104:VAL:CG1	2:CE:222:VAL:HG22	2.06	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:213:MET:HE2	2:CR:215:VAL:HG22	1.68	0.75
2:CV:213:MET:HE2	2:CV:215:VAL:HG22	1.68	0.75
2:Cb:124:LEU:HD22	2:Cb:196:ILE:HG22	1.66	0.75
2:Ch:213:MET:HE2	2:Ch:215:VAL:HG22	1.68	0.75
1:A0:101:PHE:HD2	1:A0:143:VAL:CG1	2.00	0.75
1:A0:121:LEU:CD1	1:A1:206:GLY:HA3	2.15	0.75
1:A7:101:PHE:HD2	1:A7:143:VAL:CG1	2.00	0.75
1:A8:101:PHE:HD2	1:A8:143:VAL:CG1	2.00	0.75
1:A8:121:LEU:CD1	1:A9:206:GLY:HA3	2.15	0.75
1:AD:101:PHE:HD2	1:AD:143:VAL:CG1	2.00	0.75
1:AK:101:PHE:HD2	1:AK:143:VAL:CG1	2.00	0.75
1:AM:223:PRO:HB3	2:CM:154:GLN:HB3	1.69	0.75
1:AT:206:GLY:HA3	1:AX:121:LEU:CD1	2.15	0.75
1:Ac:223:PRO:HB3	2:Ce:154:GLN:HB3	1.69	0.75
1:Ah:121:LEU:CD1	1:Ai:206:GLY:HA3	2.15	0.75
1:Ai:223:PRO:HB3	2:Ck:154:GLN:HB3	1.69	0.75
1:Al:223:PRO:HB3	2:Cn:154:GLN:HB3	1.69	0.75
1:An:101:PHE:HD2	1:An:143:VAL:CG1	2.00	0.75
1:BB:223:PRO:HB3	2:Cq:154:GLN:HB3	1.69	0.75
1:BE:206:GLY:HA3	1:BI:121:LEU:CD1	2.15	0.75
1:BH:101:PHE:HD2	1:BH:143:VAL:CG1	2.00	0.75
1:BI:101:PHE:HD2	1:BI:143:VAL:CG1	2.00	0.75
2:C5:44:PRO:HB2	2:C5:47:VAL:CG2	2.13	0.75
2:CK:124:LEU:HD22	2:CK:196:ILE:HG22	1.66	0.75
2:CN:213:MET:HE2	2:CN:215:VAL:HG22	1.68	0.75
2:Cc:44:PRO:HB2	2:Cc:47:VAL:CG2	2.13	0.75
2:Cd:44:PRO:HB2	2:Cd:47:VAL:CG2	2.13	0.75
2:Co:209:VAL:N	2:Co:210:PRO:HD3	2.02	0.75
2:Ct:213:MET:HE2	2:Ct:215:VAL:HG22	1.68	0.75
2:Cx:213:MET:HE2	2:Cx:215:VAL:HG22	1.68	0.75
1:A1:101:PHE:HD2	1:A1:143:VAL:CG1	2.00	0.75
1:A1:223:PRO:HB3	2:C2:154:GLN:HB3	1.68	0.75
1:A6:101:PHE:HD2	1:A6:143:VAL:CG1	2.00	0.75
1:AC:101:PHE:HD2	1:AC:143:VAL:CG1	2.00	0.75
1:AD:86:ILE:HD12	1:AD:86:ILE:N	2.00	0.75
1:AS:101:PHE:HD2	1:AS:143:VAL:CG1	2.00	0.75
1:AU:223:PRO:HB3	2:CV:154:GLN:HB3	1.68	0.75
1:Ab:101:PHE:HD2	1:Ab:143:VAL:CG1	2.00	0.75
1:Ab:223:PRO:HB3	2:Cd:154:GLN:HB3	1.69	0.75
1:Ai:101:PHE:HD2	1:Ai:143:VAL:CG1	2.00	0.75
1:BF:223:PRO:HB3	2:Cu:154:GLN:HB3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:213:MET:HE2	2:C7:215:VAL:HG22	1.68	0.75
2:C9:44:PRO:HB2	2:C9:47:VAL:CG2	2.13	0.75
2:CC:213:MET:HE2	2:CC:215:VAL:HG22	1.68	0.75
2:CJ:209:VAL:N	2:CJ:210:PRO:HD3	2.02	0.75
2:CO:213:MET:HE2	2:CO:215:VAL:HG22	1.68	0.75
2:CU:209:VAL:N	2:CU:210:PRO:HD3	2.02	0.75
1:A8:223:PRO:HB3	2:C9:154:GLN:HB3	1.69	0.75
1:AF:101:PHE:HD2	1:AF:143:VAL:CG1	2.00	0.75
1:AH:223:PRO:HB3	2:CH:154:GLN:HB3	1.68	0.75
1:AM:101:PHE:HD2	1:AM:143:VAL:CG1	2.00	0.75
1:AP:164:TRP:HE1	1:AP:187:LEU:HD11	1.51	0.75
1:AR:223:PRO:HB3	2:CR:154:GLN:HB3	1.69	0.75
1:AV:223:PRO:HB3	2:CW:154:GLN:HB3	1.69	0.75
1:AZ:101:PHE:HD2	1:AZ:143:VAL:CG1	2.00	0.75
1:Aa:223:PRO:HB3	2:Cc:154:GLN:HB3	1.69	0.75
1:Af:101:PHE:HD2	1:Af:143:VAL:CG1	2.00	0.75
1:BA:101:PHE:HD2	1:BA:143:VAL:CG1	2.00	0.75
1:BF:101:PHE:HD2	1:BF:143:VAL:CG1	2.00	0.75
2:C6:58:LEU:CD1	2:C6:94:PHE:HA	2.17	0.75
2:CD:209:VAL:N	2:CD:210:PRO:HD3	2.02	0.75
2:CE:209:VAL:N	2:CE:210:PRO:HD3	2.02	0.75
2:CK:58:LEU:CD1	2:CK:94:PHE:HA	2.17	0.75
2:CK:213:MET:HE2	2:CK:215:VAL:HG22	1.68	0.75
2:CU:58:LEU:CD1	2:CU:94:PHE:HA	2.17	0.75
2:CX:213:MET:HE2	2:CX:215:VAL:HG22	1.68	0.75
2:Cl:209:VAL:N	2:Cl:210:PRO:HD3	2.02	0.75
2:Cr:58:LEU:CD1	2:Cr:94:PHE:HA	2.17	0.75
1:A3:223:PRO:HB3	2:C4:154:GLN:HB3	1.68	0.75
1:A4:223:PRO:HB3	2:C5:154:GLN:HB3	1.69	0.75
1:A5:101:PHE:HD2	1:A5:143:VAL:CG1	2.00	0.75
1:A9:164:TRP:HE1	1:A9:187:LEU:HD11	1.52	0.75
1:AJ:62:SER:HB2	1:AJ:73:ASN:HD21	1.49	0.75
1:Aa:101:PHE:HD2	1:Aa:143:VAL:CG1	2.00	0.75
2:C3:58:LEU:CD1	2:C3:94:PHE:HA	2.17	0.75
2:C9:58:LEU:CD1	2:C9:94:PHE:HA	2.17	0.75
2:CA:209:VAL:N	2:CA:210:PRO:HD3	2.02	0.75
2:CH:213:MET:HE2	2:CH:215:VAL:HG22	1.68	0.75
2:CM:209:VAL:N	2:CM:210:PRO:HD3	2.02	0.75
2:CN:58:LEU:CD1	2:CN:94:PHE:HA	2.17	0.75
2:CO:58:LEU:CD1	2:CO:94:PHE:HA	2.17	0.75
2:CR:58:LEU:CD1	2:CR:94:PHE:HA	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:213:MET:HE2	2:CY:215:VAL:HG22	1.68	0.75
2:Ce:58:LEU:CD1	2:Ce:94:PHE:HA	2.17	0.75
2:Ch:209:VAL:N	2:Ch:210:PRO:HD3	2.02	0.75
2:Cl:213:MET:HE2	2:Cl:215:VAL:HG22	1.68	0.75
2:Ct:58:LEU:CD1	2:Ct:94:PHE:HA	2.17	0.75
1:A3:101:PHE:HD2	1:A3:143:VAL:CG1	2.00	0.75
1:AA:223:PRO:HB3	2:CA:154:GLN:HB3	1.69	0.75
1:AG:223:PRO:HB3	2:CG:154:GLN:HB3	1.69	0.75
1:AI:223:PRO:HB3	2:CI:154:GLN:HB3	1.69	0.75
1:AJ:101:PHE:HD2	1:AJ:143:VAL:CG1	2.00	0.75
1:AL:164:TRP:HE1	1:AL:187:LEU:HD11	1.51	0.75
1:AO:62:SER:HB2	1:AO:73:ASN:HD21	1.49	0.75
1:AP:101:PHE:HD2	1:AP:143:VAL:CG1	2.00	0.75
1:AS:223:PRO:HB3	2:CT:154:GLN:HB3	1.69	0.75
1:AW:101:PHE:HD2	1:AW:143:VAL:CG1	2.00	0.75
1:AX:101:PHE:HD2	1:AX:143:VAL:CG1	2.00	0.75
1:Aj:101:PHE:HD2	1:Aj:143:VAL:CG1	2.00	0.75
1:Am:219:TYR:CD2	3:Do:39:ARG:HB2	2.22	0.75
1:An:219:TYR:CD2	3:Db:39:ARG:HB2	2.22	0.75
1:An:223:PRO:HB3	2:Cb:154:GLN:HB3	1.68	0.75
1:BC:223:PRO:HB3	2:Cr:154:GLN:HB3	1.68	0.75
1:BF:164:TRP:HE1	1:BF:187:LEU:HD11	1.52	0.75
2:C4:213:MET:HE2	2:C4:215:VAL:HG22	1.68	0.75
2:CB:124:LEU:HD22	2:CB:196:ILE:HG22	1.66	0.75
2:CL:209:VAL:N	2:CL:210:PRO:HD3	2.02	0.75
2:CY:58:LEU:CD1	2:CY:94:PHE:HA	2.17	0.75
2:CY:209:VAL:N	2:CY:210:PRO:HD3	2.02	0.75
2:Cb:58:LEU:CD1	2:Cb:94:PHE:HA	2.17	0.75
2:Cc:209:VAL:N	2:Cc:210:PRO:HD3	2.02	0.75
2:Cg:58:LEU:CD1	2:Cg:94:PHE:HA	2.17	0.75
2:Cq:104:VAL:CG1	2:Cq:222:VAL:HG22	2.06	0.75
2:Cq:209:VAL:N	2:Cq:210:PRO:HD3	2.02	0.75
1:A5:223:PRO:HB3	2:C6:154:GLN:HB3	1.69	0.75
1:AB:101:PHE:HD2	1:AB:143:VAL:CG1	2.00	0.75
1:AK:164:TRP:HE1	1:AK:187:LEU:HD11	1.52	0.75
1:AN:101:PHE:HD2	1:AN:143:VAL:CG1	2.00	0.75
1:AO:164:TRP:HE1	1:AO:187:LEU:HD11	1.51	0.75
1:AX:223:PRO:HB3	2:CY:154:GLN:HB3	1.68	0.75
1:Ad:223:PRO:HB3	2:Cf:154:GLN:HB3	1.69	0.75
1:Ak:223:PRO:HB3	2:Cm:154:GLN:HB3	1.69	0.75
1:Ao:101:PHE:HD2	1:Ao:143:VAL:CG1	2.00	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:223:PRO:HB3	2:CS:154:GLN:HB3	1.69	0.75
1:BB:62:SER:HB2	1:BB:73:ASN:HD21	1.49	0.75
1:BE:101:PHE:HD2	1:BE:143:VAL:CG1	2.00	0.75
1:BG:101:PHE:HD2	1:BG:143:VAL:CG1	2.00	0.75
2:CA:213:MET:HE2	2:CA:215:VAL:HG22	1.68	0.75
2:CC:209:VAL:N	2:CC:210:PRO:HD3	2.02	0.75
2:CF:209:VAL:N	2:CF:210:PRO:HD3	2.02	0.75
2:CG:209:VAL:N	2:CG:210:PRO:HD3	2.02	0.75
2:CV:58:LEU:CD1	2:CV:94:PHE:HA	2.17	0.75
2:CX:58:LEU:CD1	2:CX:94:PHE:HA	2.17	0.75
2:Cf:58:LEU:CD1	2:Cf:94:PHE:HA	2.17	0.75
2:Ck:213:MET:HE2	2:Ck:215:VAL:HG22	1.68	0.75
3:De:116:THR:HG23	3:De:191:LEU:CD2	2.17	0.75
1:A6:219:TYR:CD2	3:D7:39:ARG:HB2	2.22	0.74
1:A9:219:TYR:CD2	3:Da:39:ARG:HB2	2.22	0.74
1:AC:164:TRP:HE1	1:AC:187:LEU:HD11	1.52	0.74
1:AE:223:PRO:HB3	2:CE:154:GLN:HB3	1.68	0.74
1:AF:164:TRP:HE1	1:AF:187:LEU:HD11	1.52	0.74
1:AQ:164:TRP:HE1	1:AQ:187:LEU:HD11	1.52	0.74
1:Ae:101:PHE:HD2	1:Ae:143:VAL:CG1	2.00	0.74
1:Ae:219:TYR:CD2	3:Dg:39:ARG:HB2	2.22	0.74
1:Ag:101:PHE:HD2	1:Ag:143:VAL:CG1	2.00	0.74
1:Ag:219:TYR:CD2	3:Di:39:ARG:HB2	2.22	0.74
1:Ah:223:PRO:HB3	2:Cj:154:GLN:HB3	1.69	0.74
2:C0:209:VAL:N	2:C0:210:PRO:HD3	2.02	0.74
2:C3:44:PRO:HB2	2:C3:47:VAL:CG2	2.13	0.74
2:C5:58:LEU:CD1	2:C5:94:PHE:HA	2.17	0.74
2:CP:213:MET:HE2	2:CP:215:VAL:HG22	1.68	0.74
2:CX:209:VAL:N	2:CX:210:PRO:HD3	2.02	0.74
2:Cj:209:VAL:N	2:Cj:210:PRO:HD3	2.02	0.74
2:Cp:58:LEU:CD1	2:Cp:94:PHE:HA	2.17	0.74
2:Cv:58:LEU:CD1	2:Cv:94:PHE:HA	2.17	0.74
3:DO:116:THR:HG23	3:DO:191:LEU:CD2	2.17	0.74
1:A7:219:TYR:CD2	3:D8:39:ARG:HB2	2.22	0.74
1:AD:164:TRP:HE1	1:AD:187:LEU:HD11	1.51	0.74
1:AD:219:TYR:CD2	3:DD:39:ARG:HB2	2.22	0.74
1:AH:219:TYR:CD2	3:DH:39:ARG:HB2	2.22	0.74
1:AL:223:PRO:HB3	2:CL:154:GLN:HB3	1.69	0.74
1:AM:219:TYR:CD2	3:DM:39:ARG:HB2	2.22	0.74
1:AO:101:PHE:HD2	1:AO:143:VAL:CG1	2.00	0.74
1:AQ:219:TYR:CD2	3:DQ:39:ARG:HB2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:219:TYR:CD2	3:DT:39:ARG:HB2	2.23	0.74
1:AT:101:PHE:HD2	1:AT:143:VAL:CG1	2.00	0.74
1:Ac:219:TYR:CD2	3:De:39:ARG:HB2	2.22	0.74
1:Ah:164:TRP:HE1	1:Ah:187:LEU:HD11	1.52	0.74
1:BA:219:TYR:CD2	3:Dp:39:ARG:HB2	2.22	0.74
1:BA:223:PRO:HB3	2:Cp:154:GLN:HB3	1.69	0.74
1:BC:219:TYR:CD2	3:Dr:39:ARG:HB2	2.22	0.74
1:BE:219:TYR:CD2	3:EA:39:ARG:HB2	2.22	0.74
1:BG:219:TYR:CD2	3:EC:39:ARG:HB2	2.22	0.74
2:CG:58:LEU:CD1	2:CG:94:PHE:HA	2.17	0.74
2:CP:58:LEU:CD1	2:CP:94:PHE:HA	2.17	0.74
2:CW:209:VAL:N	2:CW:210:PRO:HD3	2.02	0.74
2:CY:104:VAL:CG1	2:CY:222:VAL:HG22	2.06	0.74
2:Ci:58:LEU:CD1	2:Ci:94:PHE:HA	2.17	0.74
2:Cu:209:VAL:N	2:Cu:210:PRO:HD3	2.02	0.74
1:A0:164:TRP:HE1	1:A0:187:LEU:HD11	1.52	0.74
1:A9:101:PHE:HD2	1:A9:143:VAL:CG1	2.00	0.74
1:AA:101:PHE:HD2	1:AA:143:VAL:CG1	2.00	0.74
1:AE:219:TYR:CD2	3:DE:39:ARG:HB2	2.22	0.74
1:AI:101:PHE:HD2	1:AI:143:VAL:CG1	2.00	0.74
1:AL:219:TYR:CD2	3:DL:39:ARG:HB2	2.22	0.74
1:AN:219:TYR:CD2	3:DN:39:ARG:HB2	2.22	0.74
1:AT:219:TYR:CD2	3:DU:39:ARG:HB2	2.22	0.74
1:Ab:219:TYR:CD2	3:Dd:39:ARG:HB2	2.22	0.74
2:C6:209:VAL:N	2:C6:210:PRO:HD3	2.02	0.74
2:CQ:209:VAL:N	2:CQ:210:PRO:HD3	2.02	0.74
2:Ca:213:MET:HE2	2:Ca:215:VAL:HG22	1.68	0.74
2:Cg:209:VAL:N	2:Cg:210:PRO:HD3	2.02	0.74
2:Co:213:MET:HE2	2:Co:215:VAL:HG22	1.68	0.74
2:Cp:209:VAL:N	2:Cp:210:PRO:HD3	2.02	0.74
2:Cs:58:LEU:CD1	2:Cs:94:PHE:HA	2.17	0.74
2:Cx:58:LEU:CD1	2:Cx:94:PHE:HA	2.17	0.74
3:DB:116:THR:HG23	3:DB:191:LEU:CD2	2.18	0.74
3:Db:116:THR:HG23	3:Db:191:LEU:CD2	2.17	0.74
3:ED:116:THR:HG23	3:ED:191:LEU:CD2	2.17	0.74
1:A2:101:PHE:HD2	1:A2:143:VAL:CG1	2.00	0.74
1:A6:164:TRP:HE1	1:A6:187:LEU:HD11	1.52	0.74
1:AV:219:TYR:CD2	3:DW:39:ARG:HB2	2.22	0.74
1:Af:219:TYR:CD2	3:Dh:39:ARG:HB2	2.22	0.74
1:Af:223:PRO:HB3	2:Ch:154:GLN:HB3	1.69	0.74
1:Ah:219:TYR:CD2	3:Dj:39:ARG:HB2	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:223:PRO:HB3	2:Ct:154:GLN:HB3	1.69	0.74
2:C2:58:LEU:CD1	2:C2:94:PHE:HA	2.17	0.74
2:C4:58:LEU:CD1	2:C4:94:PHE:HA	2.17	0.74
2:CL:58:LEU:CD1	2:CL:94:PHE:HA	2.17	0.74
2:CZ:213:MET:HE2	2:CZ:215:VAL:HG22	1.68	0.74
2:Cb:209:VAL:N	2:Cb:210:PRO:HD3	2.02	0.74
2:Cd:209:VAL:N	2:Cd:210:PRO:HD3	2.02	0.74
2:Cr:209:VAL:N	2:Cr:210:PRO:HD3	2.02	0.74
3:D8:116:THR:HG23	3:D8:191:LEU:CD2	2.17	0.74
3:D9:116:THR:HG23	3:D9:191:LEU:CD2	2.18	0.74
3:DU:116:THR:HG23	3:DU:191:LEU:CD2	2.17	0.74
1:A4:219:TYR:CD2	3:D5:39:ARG:HB2	2.22	0.74
1:A7:223:PRO:HB3	2:C8:154:GLN:HB3	1.69	0.74
1:AA:219:TYR:CD2	3:DA:39:ARG:HB2	2.22	0.74
1:AF:223:PRO:HB3	2:CF:154:GLN:HB3	1.69	0.74
1:AI:121:LEU:CD1	1:AJ:206:GLY:HA3	2.15	0.74
1:AL:101:PHE:HD2	1:AL:143:VAL:CG1	2.00	0.74
1:AW:219:TYR:CD2	3:DX:39:ARG:HB2	2.22	0.74
1:AY:101:PHE:HD2	1:AY:143:VAL:CG1	2.00	0.74
1:Ad:101:PHE:HD2	1:Ad:143:VAL:CG1	2.00	0.74
1:Ai:219:TYR:CD2	3:Dk:39:ARG:HB2	2.22	0.74
1:Ak:219:TYR:CD2	3:Dm:39:ARG:HB2	2.22	0.74
2:CK:44:PRO:HB2	2:CK:47:VAL:CG2	2.13	0.74
2:Ca:58:LEU:CD1	2:Ca:94:PHE:HA	2.17	0.74
2:Ck:209:VAL:N	2:Ck:210:PRO:HD3	2.02	0.74
2:Cm:209:VAL:N	2:Cm:210:PRO:HD3	2.02	0.74
3:DS:116:THR:HG23	3:DS:191:LEU:CD2	2.18	0.74
3:DT:116:THR:HG23	3:DT:191:LEU:CD2	2.17	0.74
3:Dr:116:THR:HG23	3:Dr:191:LEU:CD2	2.17	0.74
1:AH:101:PHE:HD2	1:AH:143:VAL:CG1	2.00	0.74
1:AJ:164:TRP:HE1	1:AJ:187:LEU:HD11	1.51	0.74
1:AR:219:TYR:CD2	3:DR:39:ARG:HB2	2.22	0.74
1:AX:219:TYR:CD2	3:DY:39:ARG:HB2	2.22	0.74
1:Aj:219:TYR:CD2	3:DI:39:ARG:HB2	2.22	0.74
2:C3:209:VAL:N	2:C3:210:PRO:HD3	2.02	0.74
2:C7:58:LEU:CD1	2:C7:94:PHE:HA	2.17	0.74
2:C8:58:LEU:CD1	2:C8:94:PHE:HA	2.17	0.74
2:CB:58:LEU:CD1	2:CB:94:PHE:HA	2.17	0.74
2:CF:58:LEU:CD1	2:CF:94:PHE:HA	2.17	0.74
2:CM:213:MET:HE2	2:CM:215:VAL:HG22	1.68	0.74
2:CO:209:VAL:N	2:CO:210:PRO:HD3	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CQ:44:PRO:HB2	2:CQ:47:VAL:CG2	2.13	0.74
2:CU:104:VAL:CG1	2:CU:222:VAL:HG22	2.06	0.74
2:CV:209:VAL:N	2:CV:210:PRO:HD3	2.02	0.74
2:Cc:58:LEU:CD1	2:Cc:94:PHE:HA	2.17	0.74
2:Cm:58:LEU:CD1	2:Cm:94:PHE:HA	2.17	0.74
2:Cn:58:LEU:CD1	2:Cn:94:PHE:HA	2.17	0.74
2:Cp:213:MET:HE2	2:Cp:215:VAL:HG22	1.68	0.74
2:Cv:209:VAL:N	2:Cv:210:PRO:HD3	2.02	0.74
2:Cx:209:VAL:N	2:Cx:210:PRO:HD3	2.02	0.74
3:Ds:116:THR:HG23	3:Ds:191:LEU:CD2	2.17	0.74
1:A1:219:TYR:CD2	3:D2:39:ARG:HB2	2.22	0.74
1:A7:164:TRP:HE1	1:A7:187:LEU:HD11	1.52	0.74
1:AF:219:TYR:CD2	3:DF:39:ARG:HB2	2.22	0.74
1:AP:219:TYR:CD2	3:DP:39:ARG:HB2	2.22	0.74
1:AR:101:PHE:HD2	1:AR:143:VAL:CG1	2.00	0.74
1:AT:223:PRO:HB3	2:CU:154:GLN:HB3	1.69	0.74
1:AU:219:TYR:CD2	3:DV:39:ARG:HB2	2.22	0.74
1:Ad:219:TYR:CD2	3:Df:39:ARG:HB2	2.22	0.74
1:Aj:164:TRP:HE1	1:Aj:187:LEU:HD11	1.52	0.74
1:Ao:219:TYR:CD2	3:DS:39:ARG:HB2	2.22	0.74
1:BB:219:TYR:CD2	3:Dq:39:ARG:HB2	2.22	0.74
2:CI:58:LEU:CD1	2:CI:94:PHE:HA	2.17	0.74
2:CP:209:VAL:N	2:CP:210:PRO:HD3	2.02	0.74
3:DG:116:THR:HG23	3:DG:191:LEU:CD2	2.18	0.74
3:DH:116:THR:HG23	3:DH:191:LEU:CD2	2.18	0.74
3:Dp:116:THR:HG23	3:Dp:191:LEU:CD2	2.17	0.74
1:A4:101:PHE:HD2	1:A4:143:VAL:CG1	2.00	0.74
1:AC:219:TYR:CD2	3:DC:39:ARG:HB2	2.22	0.74
1:AC:223:PRO:HB3	2:CC:154:GLN:HB3	1.68	0.74
1:AJ:219:TYR:CD2	3:DJ:39:ARG:HB2	2.22	0.74
1:AK:219:TYR:CD2	3:DK:39:ARG:HB2	2.22	0.74
1:AO:219:TYR:CD2	3:DO:39:ARG:HB2	2.22	0.74
1:AQ:121:LEU:CD1	1:AR:206:GLY:HA3	2.15	0.74
1:AV:101:PHE:HD2	1:AV:143:VAL:CG1	2.00	0.74
1:BD:101:PHE:HD2	1:BD:143:VAL:CG1	2.00	0.74
1:BH:219:TYR:CD2	3:ED:39:ARG:HB2	2.22	0.74
2:C7:209:VAL:N	2:C7:210:PRO:HD3	2.02	0.74
2:CD:213:MET:HE2	2:CD:215:VAL:HG22	1.68	0.74
2:CN:209:VAL:N	2:CN:210:PRO:HD3	2.02	0.74
2:Cf:209:VAL:N	2:Cf:210:PRO:HD3	2.02	0.74
2:Ct:209:VAL:N	2:Ct:210:PRO:HD3	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cu:58:LEU:CD1	2:Cu:94:PHE:HA	2.17	0.74
3:Di:116:THR:HG23	3:Di:191:LEU:CD2	2.17	0.74
3:EC:116:THR:HG23	3:EC:191:LEU:CD2	2.18	0.74
1:A5:219:TYR:CD2	3:D6:39:ARG:HB2	2.22	0.74
1:AB:15:PRO:HG3	3:DB:157:ASN:ND2	2.03	0.74
1:AB:219:TYR:CD2	3:DB:39:ARG:HB2	2.22	0.74
1:AK:15:PRO:HG3	3:DK:157:ASN:ND2	2.03	0.74
1:AP:15:PRO:HG3	3:DP:157:ASN:ND2	2.03	0.74
1:AQ:101:PHE:HD2	1:AQ:143:VAL:CG1	2.00	0.74
1:Ao:15:PRO:HG3	3:DS:157:ASN:ND2	2.03	0.74
1:BD:219:TYR:CD2	3:Ds:39:ARG:HB2	2.22	0.74
1:BI:219:TYR:CD2	3:EE:39:ARG:HB2	2.22	0.74
2:C1:209:VAL:N	2:C1:210:PRO:HD3	2.02	0.74
2:C1:213:MET:HE2	2:C1:215:VAL:HG22	1.68	0.74
2:C5:209:VAL:N	2:C5:210:PRO:HD3	2.02	0.74
2:CI:209:VAL:N	2:CI:210:PRO:HD3	2.02	0.74
2:CN:212:THR:OG1	3:D2:189:THR:HG23	1.88	0.74
2:CW:58:LEU:CD1	2:CW:94:PHE:HA	2.17	0.74
2:Cc:212:THR:OG1	3:ED:189:THR:HG23	1.88	0.74
2:Cc:213:MET:HE2	2:Cc:215:VAL:HG22	1.68	0.74
2:Cl:212:THR:OG1	3:D8:189:THR:HG23	1.88	0.74
1:A8:15:PRO:HG3	3:D9:157:ASN:ND2	2.03	0.74
1:AC:15:PRO:HG3	3:DC:157:ASN:ND2	2.03	0.74
1:AH:15:PRO:HG3	3:DH:157:ASN:ND2	2.03	0.74
1:AO:15:PRO:HG3	3:DO:157:ASN:ND2	2.03	0.74
1:AV:75:CYS:O	1:AV:222:ARG:HD2	1.88	0.74
1:Af:112:PRO:HD2	3:Di:220:VAL:CG1	2.18	0.74
1:Ah:15:PRO:HG3	3:Dj:157:ASN:ND2	2.03	0.74
1:Ah:101:PHE:HD2	1:Ah:143:VAL:CG1	2.00	0.74
1:Ak:15:PRO:HG3	3:Dm:157:ASN:ND2	2.03	0.74
1:BB:101:PHE:HD2	1:BB:143:VAL:CG1	2.00	0.74
1:BF:219:TYR:CD2	3:EB:39:ARG:HB2	2.22	0.74
2:C9:209:VAL:N	2:C9:210:PRO:HD3	2.02	0.74
2:CF:213:MET:HE2	2:CF:215:VAL:HG22	1.68	0.74
2:CM:212:THR:OG1	3:Di:189:THR:HG23	1.88	0.74
2:CU:212:THR:OG1	3:Dg:189:THR:HG23	1.88	0.74
2:Ck:58:LEU:CD1	2:Ck:94:PHE:HA	2.17	0.74
2:Cp:212:THR:OG1	3:D0:189:THR:HG23	1.88	0.74
2:Cr:212:THR:OG1	3:DI:189:THR:HG23	1.88	0.74
2:Cu:212:THR:OG1	3:D5:189:THR:HG23	1.88	0.74
2:Cx:212:THR:OG1	3:Do:189:THR:HG23	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D4:116:THR:HG23	3:D4:191:LEU:CD2	2.18	0.74
3:DF:116:THR:HG23	3:DF:191:LEU:CD2	2.17	0.74
3:Dk:116:THR:HG23	3:Dk:191:LEU:CD2	2.17	0.74
3:Dm:116:THR:HG23	3:Dm:191:LEU:CD2	2.18	0.74
3:Do:116:THR:HG23	3:Do:191:LEU:CD2	2.18	0.74
1:A0:219:TYR:CD2	3:D1:39:ARG:HB2	2.22	0.73
1:A2:112:PRO:HD2	3:DZ:220:VAL:CG1	2.18	0.73
1:AS:15:PRO:HG3	3:DT:157:ASN:ND2	2.03	0.73
1:AU:15:PRO:HG3	3:DV:157:ASN:ND2	2.03	0.73
1:AZ:75:CYS:O	1:AZ:222:ARG:HD2	1.88	0.73
1:Ab:15:PRO:HG3	3:Dd:157:ASN:ND2	2.03	0.73
1:Ag:15:PRO:HG3	3:Di:157:ASN:ND2	2.03	0.73
1:Am:15:PRO:HG3	3:Do:157:ASN:ND2	2.03	0.73
1:BB:75:CYS:O	1:BB:222:ARG:HD2	1.88	0.73
1:BE:15:PRO:HG3	3:EA:157:ASN:ND2	2.03	0.73
2:C4:209:VAL:N	2:C4:210:PRO:HD3	2.02	0.73
2:CT:58:LEU:CD1	2:CT:94:PHE:HA	2.17	0.73
2:Cd:58:LEU:CD1	2:Cd:94:PHE:HA	2.17	0.73
2:Cf:213:MET:HE2	2:Cf:215:VAL:HG22	1.68	0.73
2:Cg:212:THR:OG1	3:D3:189:THR:HG23	1.88	0.73
2:Ch:58:LEU:CD1	2:Ch:94:PHE:HA	2.17	0.73
2:Ci:213:MET:HE2	2:Ci:215:VAL:HG22	1.68	0.73
2:Cn:209:VAL:N	2:Cn:210:PRO:HD3	2.02	0.73
2:Cq:58:LEU:CD1	2:Cq:94:PHE:HA	2.17	0.73
3:DD:116:THR:HG23	3:DD:191:LEU:CD2	2.17	0.73
1:A6:75:CYS:O	1:A6:222:ARG:HD2	1.88	0.73
1:A8:219:TYR:CD2	3:D9:39:ARG:HB2	2.22	0.73
1:AX:75:CYS:O	1:AX:222:ARG:HD2	1.88	0.73
1:AY:15:PRO:HG3	3:DZ:157:ASN:ND2	2.03	0.73
1:AZ:223:PRO:HB3	2:C0:154:GLN:HB3	1.68	0.73
1:Ae:112:PRO:HD2	3:Dh:220:VAL:CG1	2.18	0.73
1:Ai:15:PRO:HG3	3:Dk:157:ASN:ND2	2.03	0.73
1:Aj:75:CYS:O	1:Aj:222:ARG:HD2	1.88	0.73
1:Al:219:TYR:CD2	3:Dn:39:ARG:HB2	2.22	0.73
1:BI:75:CYS:O	1:BI:222:ARG:HD2	1.88	0.73
2:C0:58:LEU:CD1	2:C0:94:PHE:HA	2.17	0.73
2:C1:58:LEU:CD1	2:C1:94:PHE:HA	2.17	0.73
2:C4:212:THR:OG1	3:EC:189:THR:HG23	1.88	0.73
2:C9:212:THR:OG1	3:DI:189:THR:HG23	1.88	0.73
2:CG:104:VAL:CG1	2:CG:222:VAL:HG22	2.06	0.73
2:CH:58:LEU:CD1	2:CH:94:PHE:HA	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CQ:58:LEU:CD1	2:CQ:94:PHE:HA	2.17	0.73
2:CS:58:LEU:CD1	2:CS:94:PHE:HA	2.17	0.73
2:CV:212:THR:OG1	3:DB:189:THR:HG23	1.88	0.73
2:CW:212:THR:OG1	3:DJ:189:THR:HG23	1.88	0.73
2:CZ:58:LEU:CD1	2:CZ:94:PHE:HA	2.17	0.73
2:Cf:212:THR:OG1	3:DV:189:THR:HG23	1.88	0.73
2:Ch:212:THR:OG1	3:DN:189:THR:HG23	1.88	0.73
2:Cl:58:LEU:CD1	2:Cl:94:PHE:HA	2.17	0.73
3:D7:116:THR:HG23	3:D7:191:LEU:CD2	2.18	0.73
3:DN:116:THR:HG23	3:DN:191:LEU:CD2	2.18	0.73
1:A7:112:PRO:HD2	3:D4:220:VAL:CG1	2.18	0.73
1:AG:75:CYS:O	1:AG:222:ARG:HD2	1.88	0.73
1:AG:101:PHE:HD2	1:AG:143:VAL:CG1	2.00	0.73
1:AG:219:TYR:CD2	3:DG:39:ARG:HB2	2.22	0.73
1:AL:15:PRO:HG3	3:DL:157:ASN:ND2	2.03	0.73
1:AM:164:TRP:HE1	1:AM:187:LEU:HD11	1.52	0.73
1:AN:15:PRO:HG3	3:DN:157:ASN:ND2	2.03	0.73
1:AV:15:PRO:HG3	3:DW:157:ASN:ND2	2.03	0.73
1:Ab:112:PRO:HD2	3:D9:220:VAL:CG1	2.19	0.73
1:Al:15:PRO:HG3	3:Dn:157:ASN:ND2	2.03	0.73
1:BD:112:PRO:HD2	3:Do:220:VAL:CG1	2.18	0.73
1:BG:223:PRO:HB3	2:Cv:154:GLN:HB3	1.69	0.73
2:CC:58:LEU:CD1	2:CC:94:PHE:HA	2.17	0.73
2:CD:212:THR:OG1	3:D7:189:THR:HG23	1.88	0.73
2:CG:212:THR:OG1	3:EB:189:THR:HG23	1.88	0.73
2:CI:212:THR:OG1	3:DX:189:THR:HG23	1.88	0.73
2:CJ:58:LEU:CD1	2:CJ:94:PHE:HA	2.17	0.73
2:CQ:212:THR:OG1	3:Dp:189:THR:HG23	1.88	0.73
2:CR:209:VAL:N	2:CR:210:PRO:HD3	2.02	0.73
2:CZ:209:VAL:N	2:CZ:210:PRO:HD3	2.02	0.73
3:DI:116:THR:HG23	3:DI:191:LEU:CD2	2.17	0.73
3:DM:116:THR:HG23	3:DM:191:LEU:CD2	2.18	0.73
3:DV:116:THR:HG23	3:DV:191:LEU:CD2	2.17	0.73
3:EA:24:PRO:HB3	4:Ft:30:TYR:O	1.89	0.73
1:A2:223:PRO:HB3	2:C3:154:GLN:HB3	1.69	0.73
1:A3:219:TYR:CD2	3:D4:39:ARG:HB2	2.22	0.73
1:A6:112:PRO:HD2	3:D8:220:VAL:CG1	2.18	0.73
1:A9:15:PRO:HG3	3:Da:157:ASN:ND2	2.03	0.73
1:AB:75:CYS:O	1:AB:222:ARG:HD2	1.88	0.73
1:AF:75:CYS:O	1:AF:222:ARG:HD2	1.88	0.73
1:AH:112:PRO:HD2	3:DI:220:VAL:CG1	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:219:TYR:CD2	3:DI:39:ARG:HB2	2.22	0.73
1:AN:112:PRO:HD2	3:DO:220:VAL:CG1	2.18	0.73
1:AY:219:TYR:CD2	3:DZ:39:ARG:HB2	2.22	0.73
1:AZ:15:PRO:HG3	3:D0:157:ASN:ND2	2.03	0.73
1:Ac:75:CYS:O	1:Ac:222:ARG:HD2	1.88	0.73
1:Ai:164:TRP:HE1	1:Ai:187:LEU:HD11	1.52	0.73
1:Ao:75:CYS:O	1:Ao:222:ARG:HD2	1.88	0.73
1:BC:15:PRO:HG3	3:Dr:157:ASN:ND2	2.03	0.73
1:BH:75:CYS:O	1:BH:222:ARG:HD2	1.88	0.73
1:BH:119:TRP:HB3	1:BH:130:ILE:HG23	1.70	0.73
2:C3:212:THR:OG1	3:DU:189:THR:HG23	1.88	0.73
2:CA:58:LEU:CD1	2:CA:94:PHE:HA	2.17	0.73
2:CA:212:THR:OG1	3:DW:189:THR:HG23	1.88	0.73
2:CJ:213:MET:HE2	2:CJ:215:VAL:HG22	1.68	0.73
2:CM:58:LEU:CD1	2:CM:94:PHE:HA	2.17	0.73
2:CR:212:THR:OG1	3:EE:189:THR:HG23	1.88	0.73
2:Ck:212:THR:OG1	3:Da:189:THR:HG23	1.88	0.73
2:Cm:212:THR:OG1	3:DD:189:THR:HG23	1.88	0.73
2:Cw:58:LEU:CD1	2:Cw:94:PHE:HA	2.17	0.73
3:D1:116:THR:HG23	3:D1:191:LEU:CD2	2.17	0.73
3:DK:116:THR:HG23	3:DK:191:LEU:CD2	2.18	0.73
3:DR:116:THR:HG23	3:DR:191:LEU:CD2	2.18	0.73
3:Df:24:PRO:HB3	4:Ff:30:TYR:O	1.89	0.73
3:Dq:24:PRO:HB3	4:Fq:30:TYR:O	1.89	0.73
3:EB:24:PRO:HB3	4:Fu:30:TYR:O	1.89	0.73
3:EE:24:PRO:HB3	4:Fx:30:TYR:O	1.89	0.73
1:A8:75:CYS:O	1:A8:222:ARG:HD2	1.88	0.73
1:AC:75:CYS:O	1:AC:222:ARG:HD2	1.89	0.73
1:AE:101:PHE:HD2	1:AE:143:VAL:CG1	2.00	0.73
1:AG:164:TRP:HE1	1:AG:187:LEU:HD11	1.51	0.73
1:AJ:75:CYS:O	1:AJ:222:ARG:HD2	1.88	0.73
1:AJ:223:PRO:HB3	2:CJ:154:GLN:HB3	1.69	0.73
1:AO:112:PRO:HD2	3:DK:220:VAL:CG1	2.18	0.73
1:AU:101:PHE:HD2	1:AU:143:VAL:CG1	2.00	0.73
1:AW:15:PRO:HG3	3:DX:157:ASN:ND2	2.03	0.73
1:AZ:219:TYR:CD2	3:D0:39:ARG:HB2	2.22	0.73
1:Af:15:PRO:HG3	3:Dh:157:ASN:ND2	2.03	0.73
1:Af:75:CYS:O	1:Af:222:ARG:HD2	1.88	0.73
1:Ak:101:PHE:HD2	1:Ak:143:VAL:CG1	2.00	0.73
1:Am:223:PRO:HB3	2:Co:154:GLN:HB3	1.69	0.73
1:BC:119:TRP:HB3	1:BC:130:ILE:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:15:PRO:HG3	3:Ds:157:ASN:ND2	2.03	0.73
1:BE:164:TRP:HE1	1:BE:187:LEU:HD11	1.51	0.73
2:C8:213:MET:HE2	2:C8:215:VAL:HG22	1.68	0.73
2:CP:212:THR:OG1	3:D1:189:THR:HG23	1.88	0.73
2:Cd:212:THR:OG1	3:D4:189:THR:HG23	1.88	0.73
2:Ce:212:THR:OG1	3:DC:189:THR:HG23	1.88	0.73
2:Cn:212:THR:OG1	3:De:189:THR:HG23	1.88	0.73
2:Cw:213:MET:HE2	2:Cw:215:VAL:HG22	1.68	0.73
3:D3:24:PRO:HB3	4:F3:30:TYR:O	1.89	0.73
3:DC:116:THR:HG23	3:DC:191:LEU:CD2	2.17	0.73
3:DG:24:PRO:HB3	4:FG:30:TYR:O	1.89	0.73
3:DL:116:THR:HG23	3:DL:191:LEU:CD2	2.18	0.73
3:DS:24:PRO:HB3	4:FS:30:TYR:O	1.89	0.73
3:Dd:116:THR:HG23	3:Dd:191:LEU:CD2	2.17	0.73
3:Dg:24:PRO:HB3	4:Fg:30:TYR:O	1.89	0.73
1:A4:15:PRO:HG3	3:D5:157:ASN:ND2	2.03	0.73
1:A5:75:CYS:O	1:A5:222:ARG:HD2	1.88	0.73
1:AB:164:TRP:HE1	1:AB:187:LEU:HD11	1.52	0.73
1:AI:75:CYS:O	1:AI:222:ARG:HD2	1.88	0.73
1:AJ:15:PRO:HG3	3:DJ:157:ASN:ND2	2.03	0.73
1:AN:164:TRP:HE1	1:AN:187:LEU:HD11	1.52	0.73
1:AQ:112:PRO:HD2	3:DR:220:VAL:CG1	2.18	0.73
1:AQ:223:PRO:HB3	2:CQ:154:GLN:HB3	1.69	0.73
1:AR:119:TRP:HB3	1:AR:130:ILE:HG23	1.70	0.73
1:AT:112:PRO:HD2	3:DV:220:VAL:CG1	2.19	0.73
1:AU:75:CYS:O	1:AU:222:ARG:HD2	1.88	0.73
1:AW:75:CYS:O	1:AW:222:ARG:HD2	1.88	0.73
1:Aa:219:TYR:CD2	3:Dc:39:ARG:HB2	2.22	0.73
1:Ac:119:TRP:HB3	1:Ac:130:ILE:HG23	1.70	0.73
1:Ad:15:PRO:HG3	3:Df:157:ASN:ND2	2.03	0.73
1:Ag:164:TRP:HE1	1:Ag:187:LEU:HD11	1.52	0.73
1:Aj:15:PRO:HG3	3:DI:157:ASN:ND2	2.03	0.73
1:Am:75:CYS:O	1:Am:222:ARG:HD2	1.88	0.73
1:BA:15:PRO:HG3	3:Dp:157:ASN:ND2	2.03	0.73
1:BF:112:PRO:HD2	3:EC:220:VAL:CG1	2.19	0.73
2:CD:58:LEU:CD1	2:CD:94:PHE:HA	2.17	0.73
2:CJ:212:THR:OG1	3:DA:189:THR:HG23	1.88	0.73
2:CT:212:THR:OG1	3:DK:189:THR:HG23	1.88	0.73
2:CX:212:THR:OG1	3:Dr:189:THR:HG23	1.88	0.73
2:Cj:58:LEU:CD1	2:Cj:94:PHE:HA	2.17	0.73
2:Cq:212:THR:OG1	3:DY:189:THR:HG23	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DX:24:PRO:HB3	4:FX:30:TYR:O	1.89	0.73
1:A1:112:PRO:HD2	3:D3:220:VAL:CG1	2.19	0.73
1:A2:15:PRO:HG3	3:D3:157:ASN:ND2	2.03	0.73
1:A9:112:PRO:HD2	3:Db:220:VAL:CG1	2.18	0.73
1:AB:112:PRO:HD2	3:DC:220:VAL:CG1	2.18	0.73
1:AB:119:TRP:HB3	1:AB:130:ILE:HG23	1.70	0.73
1:AD:75:CYS:O	1:AD:222:ARG:HD2	1.88	0.73
1:AE:75:CYS:O	1:AE:222:ARG:HD2	1.88	0.73
1:AI:15:PRO:HG3	3:DI:157:ASN:ND2	2.03	0.73
1:AN:119:TRP:HB3	1:AN:130:ILE:HG23	1.70	0.73
1:AR:164:TRP:HE1	1:AR:187:LEU:HD11	1.51	0.73
1:AW:223:PRO:HB3	2:CX:154:GLN:HB3	1.69	0.73
1:Aa:164:TRP:HE1	1:Aa:187:LEU:HD11	1.52	0.73
1:Ad:112:PRO:HD2	3:Dg:220:VAL:CG1	2.18	0.73
1:Ad:164:TRP:HE1	1:Ad:187:LEU:HD11	1.51	0.73
1:Ag:75:CYS:O	1:Ag:222:ARG:HD2	1.88	0.73
1:Al:164:TRP:HE1	1:Al:187:LEU:HD11	1.51	0.73
1:BB:112:PRO:HD2	3:Dr:220:VAL:CG1	2.18	0.73
1:BB:164:TRP:HE1	1:BB:187:LEU:HD11	1.52	0.73
1:BE:119:TRP:HB3	1:BE:130:ILE:HG23	1.70	0.73
2:C1:212:THR:OG1	3:DO:189:THR:HG23	1.88	0.73
2:C2:213:MET:HE2	2:C2:215:VAL:HG22	1.68	0.73
2:CF:212:THR:OG1	3:D6:189:THR:HG23	1.88	0.73
2:CY:212:THR:OG1	3:DZ:189:THR:HG23	1.88	0.73
2:Ci:212:THR:OG1	3:Dj:189:THR:HG23	1.88	0.73
2:Cw:212:THR:OG1	3:DS:189:THR:HG23	1.88	0.73
3:D0:24:PRO:HB3	4:F0:30:TYR:O	1.89	0.73
3:D4:24:PRO:HB3	4:F4:30:TYR:O	1.89	0.73
3:Dc:24:PRO:HB3	4:Fc:30:TYR:O	1.89	0.73
3:De:24:PRO:HB3	4:Fe:30:TYR:O	1.89	0.73
3:Ds:24:PRO:HB3	4:Fs:30:TYR:O	1.89	0.73
1:A0:223:PRO:HB3	2:C1:154:GLN:HB3	1.69	0.73
1:A3:112:PRO:HD2	3:D5:220:VAL:CG1	2.18	0.73
1:A4:164:TRP:HE1	1:A4:187:LEU:HD11	1.52	0.73
1:A5:112:PRO:HD2	3:D7:220:VAL:CG1	2.18	0.73
1:AF:15:PRO:HG3	3:DF:157:ASN:ND2	2.03	0.73
1:AN:75:CYS:O	1:AN:222:ARG:HD2	1.88	0.73
1:AO:75:CYS:O	1:AO:222:ARG:HD2	1.88	0.73
1:AW:119:TRP:HB3	1:AW:130:ILE:HG23	1.70	0.73
1:AX:15:PRO:HG3	3:DY:157:ASN:ND2	2.03	0.73
1:Al:119:TRP:HB3	1:Al:130:ILE:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:An:75:CYS:O	1:An:222:ARG:HD2	1.88	0.73
1:BC:101:PHE:HD2	1:BC:143:VAL:CG1	2.00	0.73
1:BC:112:PRO:HD2	3:Ds:220:VAL:CG1	2.18	0.73
1:BF:119:TRP:HB3	1:BF:130:ILE:HG23	1.71	0.73
1:BI:119:TRP:HB3	1:BI:130:ILE:HG23	1.71	0.73
2:C8:212:THR:OG1	3:D9:189:THR:HG23	1.88	0.73
2:CB:209:VAL:N	2:CB:210:PRO:HD3	2.02	0.73
2:CH:209:VAL:N	2:CH:210:PRO:HD3	2.02	0.73
2:CK:212:THR:OG1	3:Db:189:THR:HG23	1.88	0.73
2:Co:58:LEU:CD1	2:Co:94:PHE:HA	2.17	0.73
2:Co:212:THR:OG1	3:DR:189:THR:HG23	1.88	0.73
2:Cr:213:MET:HE2	2:Cr:215:VAL:HG22	1.68	0.73
2:Cs:212:THR:OG1	3:EA:189:THR:HG23	1.88	0.73
3:DB:24:PRO:HB3	4:FB:30:TYR:O	1.89	0.73
3:DD:24:PRO:HB3	4:FD:30:TYR:O	1.89	0.73
3:Dd:24:PRO:HB3	4:Fd:30:TYR:O	1.89	0.73
3:Dh:116:THR:HG23	3:Dh:191:LEU:CD2	2.18	0.73
1:A0:119:TRP:HB3	1:A0:130:ILE:HG23	1.70	0.73
1:A4:112:PRO:HD2	3:D6:220:VAL:CG1	2.18	0.73
1:AA:164:TRP:HE1	1:AA:187:LEU:HD11	1.52	0.73
1:AG:119:TRP:HB3	1:AG:130:ILE:HG23	1.71	0.73
1:AH:119:TRP:HB3	1:AH:130:ILE:HG23	1.71	0.73
1:AI:164:TRP:HE1	1:AI:187:LEU:HD11	1.52	0.73
1:AQ:15:PRO:HG3	3:DQ:157:ASN:ND2	2.03	0.73
1:AX:112:PRO:HD2	3:DU:220:VAL:CG1	2.18	0.73
1:AY:164:TRP:HE1	1:AY:187:LEU:HD11	1.52	0.73
1:Ac:101:PHE:HD2	1:Ac:143:VAL:CG1	2.00	0.73
1:BD:119:TRP:HB3	1:BD:130:ILE:HG23	1.70	0.73
1:BF:15:PRO:HG3	3:EB:157:ASN:ND2	2.03	0.73
1:BH:15:PRO:HG3	3:ED:157:ASN:ND2	2.03	0.73
2:CE:58:LEU:CD1	2:CE:94:PHE:HA	2.17	0.73
2:CT:209:VAL:N	2:CT:210:PRO:HD3	2.02	0.73
2:Cj:212:THR:OG1	3:DM:189:THR:HG23	1.88	0.73
3:DP:24:PRO:HB3	4:FP:30:TYR:O	1.89	0.73
3:Db:24:PRO:HB3	4:Fb:30:TYR:O	1.89	0.73
3:Dp:24:PRO:HB3	4:Fp:30:TYR:O	1.89	0.73
1:A2:219:TYR:CD2	3:D3:39:ARG:HB2	2.22	0.73
1:A3:119:TRP:HB3	1:A3:130:ILE:HG23	1.71	0.73
1:A6:15:PRO:HG3	3:D7:157:ASN:ND2	2.03	0.73
1:AH:75:CYS:O	1:AH:222:ARG:HD2	1.88	0.73
1:AK:75:CYS:O	1:AK:222:ARG:HD2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:112:PRO:HD2	3:DN:220:VAL:CG1	2.18	0.73
1:AO:119:TRP:HB3	1:AO:130:ILE:HG23	1.70	0.73
1:Ag:119:TRP:HB3	1:Ag:130:ILE:HG23	1.70	0.73
1:Ah:75:CYS:O	1:Ah:222:ARG:HD2	1.88	0.73
1:Aj:112:PRO:HD2	3:Dm:220:VAL:CG1	2.18	0.73
1:Am:112:PRO:HD2	3:Dp:220:VAL:CG1	2.18	0.73
1:An:15:PRO:HG3	3:Db:157:ASN:ND2	2.03	0.73
1:Ao:112:PRO:HD2	3:DT:220:VAL:CG1	2.18	0.73
1:BA:164:TRP:HE1	1:BA:187:LEU:HD11	1.52	0.73
1:BB:119:TRP:HB3	1:BB:130:ILE:HG23	1.71	0.73
1:BD:164:TRP:HE1	1:BD:187:LEU:HD11	1.52	0.73
2:Ca:212:THR:OG1	3:DL:189:THR:HG23	1.88	0.73
2:Cs:209:VAL:N	2:Cs:210:PRO:HD3	2.02	0.73
3:D2:24:PRO:HB3	4:F2:30:TYR:O	1.89	0.73
3:D2:116:THR:HG23	3:D2:191:LEU:CD2	2.17	0.73
3:D5:24:PRO:HB3	4:F5:30:TYR:O	1.89	0.73
3:D6:24:PRO:HB3	4:F6:30:TYR:O	1.89	0.73
3:DH:24:PRO:HB3	4:FH:30:TYR:O	1.89	0.73
3:DL:24:PRO:HB3	4:FL:30:TYR:O	1.89	0.73
3:DV:24:PRO:HB3	4:FV:30:TYR:O	1.89	0.73
3:Dg:116:THR:HG23	3:Dg:191:LEU:CD2	2.17	0.73
1:A1:164:TRP:HE1	1:A1:187:LEU:HD11	1.51	0.72
1:A3:75:CYS:O	1:A3:222:ARG:HD2	1.88	0.72
1:A9:119:TRP:HB3	1:A9:130:ILE:HG23	1.71	0.72
1:AD:15:PRO:HG3	3:DD:157:ASN:ND2	2.03	0.72
1:AR:15:PRO:HG3	3:DR:157:ASN:ND2	2.03	0.72
1:AT:164:TRP:HE1	1:AT:187:LEU:HD11	1.52	0.72
1:AU:112:PRO:HD2	3:DW:220:VAL:CG1	2.18	0.72
1:AV:112:PRO:HD2	3:DX:220:VAL:CG1	2.18	0.72
1:AZ:164:TRP:HE1	1:AZ:187:LEU:HD11	1.52	0.72
1:Ac:15:PRO:HG3	3:De:157:ASN:ND2	2.03	0.72
1:Aj:119:TRP:HB3	1:Aj:130:ILE:HG23	1.71	0.72
1:Ak:164:TRP:HE1	1:Ak:187:LEU:HD11	1.52	0.72
1:BG:15:PRO:HG3	3:EC:157:ASN:ND2	2.03	0.72
1:BI:164:TRP:HE1	1:BI:187:LEU:HD11	1.52	0.72
2:CK:209:VAL:N	2:CK:210:PRO:HD3	2.02	0.72
2:CS:209:VAL:N	2:CS:210:PRO:HD3	2.02	0.72
2:Ce:209:VAL:N	2:Ce:210:PRO:HD3	2.02	0.72
3:DJ:24:PRO:HB3	4:FJ:30:TYR:O	1.89	0.72
3:DQ:116:THR:HG23	3:DQ:191:LEU:CD2	2.17	0.72
3:Dc:116:THR:HG23	3:Dc:191:LEU:CD2	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:15:PRO:HG3	3:D1:157:ASN:ND2	2.03	0.72
1:A1:75:CYS:O	1:A1:222:ARG:HD2	1.88	0.72
1:A8:119:TRP:HB3	1:A8:130:ILE:HG23	1.70	0.72
1:AM:15:PRO:HG3	3:DM:157:ASN:ND2	2.03	0.72
1:Ae:119:TRP:HB3	1:Ae:130:ILE:HG23	1.71	0.72
1:Ak:75:CYS:O	1:Ak:222:ARG:HD2	1.89	0.72
1:Al:101:PHE:HD2	1:Al:143:VAL:CG1	2.00	0.72
1:An:164:TRP:HE1	1:An:187:LEU:HD11	1.52	0.72
1:BC:164:TRP:HE1	1:BC:187:LEU:HD11	1.52	0.72
1:BE:75:CYS:O	1:BE:222:ARG:HD2	1.88	0.72
1:BG:75:CYS:O	1:BG:222:ARG:HD2	1.89	0.72
2:C2:209:VAL:N	2:C2:210:PRO:HD3	2.02	0.72
2:Ci:209:VAL:N	2:Ci:210:PRO:HD3	2.02	0.72
2:Ct:212:THR:OG1	3:DH:189:THR:HG23	1.88	0.72
3:DF:24:PRO:HB3	4:FF:30:TYR:O	1.89	0.72
3:DN:24:PRO:HB3	4:FN:30:TYR:O	1.89	0.72
3:DP:116:THR:HG23	3:DP:191:LEU:CD2	2.18	0.72
3:Da:116:THR:HG23	3:Da:191:LEU:CD2	2.17	0.72
3:Do:24:PRO:HB3	4:Fo:30:TYR:O	1.89	0.72
1:A0:75:CYS:O	1:A0:222:ARG:HD2	1.88	0.72
1:A1:15:PRO:HG3	3:D2:157:ASN:ND2	2.03	0.72
1:A1:119:TRP:HB3	1:A1:130:ILE:HG23	1.70	0.72
1:A2:75:CYS:O	1:A2:222:ARG:HD2	1.88	0.72
1:A7:75:CYS:O	1:A7:222:ARG:HD2	1.88	0.72
1:AE:15:PRO:HG3	3:DE:157:ASN:ND2	2.03	0.72
1:AJ:119:TRP:HB3	1:AJ:130:ILE:HG23	1.70	0.72
1:AL:75:CYS:O	1:AL:222:ARG:HD2	1.88	0.72
1:AS:119:TRP:HB3	1:AS:130:ILE:HG23	1.71	0.72
1:AT:15:PRO:HG3	3:DU:157:ASN:ND2	2.03	0.72
1:Aa:15:PRO:HG3	3:Dc:157:ASN:ND2	2.03	0.72
1:Ae:15:PRO:HG3	3:Dg:157:ASN:ND2	2.03	0.72
1:Ae:75:CYS:O	1:Ae:222:ARG:HD2	1.88	0.72
1:Ah:112:PRO:HD2	3:Dk:220:VAL:CG1	2.18	0.72
1:Al:112:PRO:HD2	3:Dj:220:VAL:CG1	2.18	0.72
2:C0:212:THR:OG1	3:DQ:189:THR:HG23	1.88	0.72
2:C2:212:THR:OG1	3:Dh:189:THR:HG23	1.88	0.72
2:C6:212:THR:OG1	3:DE:189:THR:HG23	1.88	0.72
2:CF:112:VAL:HG21	2:CF:126:VAL:HG21	1.72	0.72
2:Ca:209:VAL:N	2:Ca:210:PRO:HD3	2.02	0.72
3:D5:116:THR:HG23	3:D5:191:LEU:CD2	2.18	0.72
3:D7:24:PRO:HB3	4:F7:30:TYR:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:24:PRO:HB3	4:F9:30:TYR:O	1.89	0.72
3:DE:24:PRO:HB3	4:FE:30:TYR:O	1.89	0.72
3:DY:24:PRO:HB3	4:FY:30:TYR:O	1.89	0.72
3:DY:116:THR:HG23	3:DY:191:LEU:CD2	2.18	0.72
3:Dr:24:PRO:HB3	4:Fr:30:TYR:O	1.89	0.72
1:A4:75:CYS:O	1:A4:222:ARG:HD2	1.88	0.72
1:A5:15:PRO:HG3	3:D6:157:ASN:ND2	2.03	0.72
1:A6:119:TRP:HB3	1:A6:130:ILE:HG23	1.71	0.72
1:A9:75:CYS:O	1:A9:222:ARG:HD2	1.88	0.72
1:AJ:112:PRO:HD2	3:DF:220:VAL:CG1	2.18	0.72
1:AK:119:TRP:HB3	1:AK:130:ILE:HG23	1.71	0.72
1:Af:164:TRP:HE1	1:Af:187:LEU:HD11	1.52	0.72
1:Aj:106:TRP:HZ3	3:Dl:26:TYR:CD1	2.08	0.72
1:Ao:164:TRP:HE1	1:Ao:187:LEU:HD11	1.52	0.72
1:BB:15:PRO:HG3	3:Dq:157:ASN:ND2	2.03	0.72
2:C5:112:VAL:HG21	2:C5:126:VAL:HG21	1.72	0.72
2:C9:112:VAL:HG21	2:C9:126:VAL:HG21	1.72	0.72
2:CC:212:THR:OG1	3:Dn:189:THR:HG23	1.88	0.72
2:CL:112:VAL:HG21	2:CL:126:VAL:HG21	1.72	0.72
2:CM:112:VAL:HG21	2:CM:126:VAL:HG21	1.72	0.72
2:Cb:112:VAL:HG21	2:Cb:126:VAL:HG21	1.72	0.72
2:Cc:112:VAL:HG21	2:Cc:126:VAL:HG21	1.72	0.72
2:Cj:112:VAL:HG21	2:Cj:126:VAL:HG21	1.72	0.72
2:Ck:112:VAL:HG21	2:Ck:126:VAL:HG21	1.72	0.72
2:Cv:212:THR:OG1	3:Dd:189:THR:HG23	1.88	0.72
3:D0:116:THR:HG23	3:D0:191:LEU:CD2	2.18	0.72
3:DI:24:PRO:HB3	4:FI:30:TYR:O	1.89	0.72
3:DX:116:THR:HG23	3:DX:191:LEU:CD2	2.18	0.72
3:Da:24:PRO:HB3	4:Fa:30:TYR:O	1.89	0.72
3:Dl:24:PRO:HB3	4:Fl:30:TYR:O	1.89	0.72
1:A1:106:TRP:HZ3	3:D2:26:TYR:CD1	2.08	0.72
1:A3:15:PRO:HG3	3:D4:157:ASN:ND2	2.03	0.72
1:AC:112:PRO:HD2	3:DD:220:VAL:CG1	2.18	0.72
1:AE:119:TRP:HB3	1:AE:130:ILE:HG23	1.70	0.72
1:AF:112:PRO:HD2	3:DG:220:VAL:CG1	2.18	0.72
1:AN:106:TRP:HZ3	3:DN:26:TYR:CD1	2.08	0.72
1:AP:75:CYS:O	1:AP:222:ARG:HD2	1.88	0.72
1:AP:112:PRO:HD2	3:DQ:220:VAL:CG1	2.18	0.72
1:AT:119:TRP:HB3	1:AT:130:ILE:HG23	1.70	0.72
1:AU:164:TRP:HE1	1:AU:187:LEU:HD11	1.52	0.72
1:AV:119:TRP:HB3	1:AV:130:ILE:HG23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:164:TRP:HE1	1:AW:187:LEU:HD11	1.51	0.72
1:AY:106:TRP:HZ3	3:DZ:26:TYR:CD1	2.08	0.72
1:Aa:106:TRP:HZ3	3:Dc:26:TYR:CD1	2.08	0.72
1:Ad:119:TRP:HB3	1:Ad:130:ILE:HG23	1.71	0.72
1:Ae:164:TRP:HE1	1:Ae:187:LEU:HD11	1.52	0.72
1:Ai:119:TRP:HB3	1:Ai:130:ILE:HG23	1.70	0.72
1:Al:106:TRP:HZ3	3:Dn:26:TYR:CD1	2.08	0.72
1:An:119:TRP:HB3	1:An:130:ILE:HG23	1.70	0.72
1:Ao:106:TRP:HZ3	3:DS:26:TYR:CD1	2.08	0.72
1:Ao:119:TRP:HB3	1:Ao:130:ILE:HG23	1.70	0.72
1:BI:15:PRO:HG3	3:EE:157:ASN:ND2	2.03	0.72
2:CE:212:THR:OG1	3:DF:189:THR:HG23	1.88	0.72
2:CH:212:THR:OG1	3:Ds:189:THR:HG23	1.88	0.72
2:CR:112:VAL:HG21	2:CR:126:VAL:HG21	1.72	0.72
2:CS:112:VAL:HG21	2:CS:126:VAL:HG21	1.72	0.72
2:CT:112:VAL:HG21	2:CT:126:VAL:HG21	1.72	0.72
2:CZ:112:VAL:HG21	2:CZ:126:VAL:HG21	1.72	0.72
2:CZ:212:THR:OG1	3:Dq:189:THR:HG23	1.88	0.72
2:Ce:112:VAL:HG21	2:Ce:126:VAL:HG21	1.72	0.72
2:Cn:212:THR:CG2	3:De:188:LEU:HD22	2.20	0.72
3:D6:116:THR:HG23	3:D6:191:LEU:CD2	2.18	0.72
3:D8:24:PRO:HB3	4:F8:30:TYR:O	1.89	0.72
3:DO:24:PRO:HB3	4:FO:30:TYR:O	1.89	0.72
3:Dm:24:PRO:HB3	4:Fm:30:TYR:O	1.89	0.72
1:A6:223:PRO:HB3	2:C7:154:GLN:HB3	1.69	0.72
1:A9:106:TRP:HZ3	3:Da:26:TYR:CD1	2.08	0.72
1:AA:112:PRO:HD2	3:DB:220:VAL:CG1	2.18	0.72
1:AA:119:TRP:HB3	1:AA:130:ILE:HG23	1.70	0.72
1:AG:15:PRO:HG3	3:DG:157:ASN:ND2	2.03	0.72
1:AI:112:PRO:HD2	3:DJ:220:VAL:CG1	2.18	0.72
1:AI:119:TRP:HB3	1:AI:130:ILE:HG23	1.70	0.72
1:Aa:75:CYS:O	1:Aa:222:ARG:HD2	1.88	0.72
1:BA:106:TRP:HZ3	3:Dp:26:TYR:CD1	2.08	0.72
1:BF:75:CYS:O	1:BF:222:ARG:HD2	1.88	0.72
2:CB:212:THR:OG1	3:Df:189:THR:HG23	1.88	0.72
2:CC:112:VAL:HG21	2:CC:126:VAL:HG21	1.72	0.72
2:CM:212:THR:CG2	3:Di:188:LEU:HD22	2.20	0.72
2:CO:112:VAL:HG21	2:CO:126:VAL:HG21	1.72	0.72
2:CO:212:THR:OG1	3:DP:189:THR:HG23	1.88	0.72
2:Ca:112:VAL:HG21	2:Ca:126:VAL:HG21	1.72	0.72
2:Cb:212:THR:CG2	3:DT:188:LEU:HD22	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D1:24:PRO:HB3	4:F1:30:TYR:O	1.89	0.72
3:DM:24:PRO:HB3	4:FM:30:TYR:O	1.89	0.72
3:DW:24:PRO:HB3	4:FW:30:TYR:O	1.89	0.72
3:Df:116:THR:HG23	3:Df:191:LEU:CD2	2.18	0.72
1:A5:164:TRP:HE1	1:A5:187:LEU:HD11	1.51	0.72
1:A7:15:PRO:HG3	3:D8:157:ASN:ND2	2.03	0.72
1:AA:15:PRO:HG3	3:DA:157:ASN:ND2	2.03	0.72
1:AD:112:PRO:HD2	3:DE:220:VAL:CG1	2.19	0.72
1:AQ:106:TRP:HZ3	3:DQ:26:TYR:CD1	2.08	0.72
1:AS:164:TRP:HE1	1:AS:187:LEU:HD11	1.52	0.72
1:AT:75:CYS:O	1:AT:222:ARG:HD2	1.88	0.72
1:AT:106:TRP:HZ3	3:DU:26:TYR:CD1	2.08	0.72
1:AW:106:TRP:HZ3	3:DX:26:TYR:CD1	2.08	0.72
1:AX:119:TRP:HB3	1:AX:130:ILE:HG23	1.70	0.72
1:Ai:106:TRP:HZ3	3:Dk:26:TYR:CD1	2.08	0.72
2:C8:212:THR:CG2	3:D9:188:LEU:HD22	2.20	0.72
2:CB:112:VAL:HG21	2:CB:126:VAL:HG21	1.72	0.72
2:CN:212:THR:CG2	3:D2:188:LEU:HD22	2.20	0.72
2:CP:212:THR:CG2	3:D1:188:LEU:HD22	2.20	0.72
2:CS:212:THR:OG1	3:Dc:189:THR:HG23	1.88	0.72
2:Cl:112:VAL:HG21	2:Cl:126:VAL:HG21	1.72	0.72
2:Cx:112:VAL:HG21	2:Cx:126:VAL:HG21	1.72	0.72
3:D3:116:THR:HG23	3:D3:191:LEU:CD2	2.17	0.72
3:DA:24:PRO:HB3	4:FA:30:TYR:O	1.89	0.72
3:DA:116:THR:HG23	3:DA:191:LEU:CD2	2.17	0.72
3:DW:116:THR:HG23	3:DW:191:LEU:CD2	2.18	0.72
3:Dl:116:THR:HG23	3:Dl:191:LEU:CD2	2.18	0.72
1:AO:106:TRP:HZ3	3:DO:26:TYR:CD1	2.08	0.72
1:AQ:75:CYS:O	1:AQ:222:ARG:HD2	1.88	0.72
1:AR:106:TRP:HZ3	3:DR:26:TYR:CD1	2.08	0.72
1:AS:106:TRP:HZ3	3:DT:26:TYR:CD1	2.08	0.72
1:Ab:106:TRP:HZ3	3:Dd:26:TYR:CD1	2.08	0.72
1:Ad:75:CYS:O	1:Ad:222:ARG:HD2	1.88	0.72
2:C2:212:THR:CG2	3:Dh:188:LEU:HD22	2.20	0.72
2:C5:212:THR:OG1	3:DG:189:THR:HG23	1.88	0.72
2:C7:212:THR:OG1	3:Dm:189:THR:HG23	1.88	0.72
2:CF:212:THR:CG2	3:D6:188:LEU:HD22	2.20	0.72
2:CP:112:VAL:HG21	2:CP:126:VAL:HG21	1.72	0.72
2:Cd:212:THR:CG2	3:D4:188:LEU:HD22	2.20	0.72
2:Ce:212:THR:CG2	3:DC:188:LEU:HD22	2.20	0.72
2:Cf:112:VAL:HG21	2:Cf:126:VAL:HG21	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ci:212:THR:CG2	3:Dj:188:LEU:HD22	2.20	0.72
2:Ck:212:THR:CG2	3:Da:188:LEU:HD22	2.20	0.72
2:Co:112:VAL:HG21	2:Co:126:VAL:HG21	1.72	0.72
2:Cp:112:VAL:HG21	2:Cp:126:VAL:HG21	1.72	0.72
2:Cr:115:ASN:C	3:DI:119:LYS:HZ3	1.98	0.72
2:Cv:212:THR:CG2	3:Dd:188:LEU:HD22	2.20	0.72
3:D9:106:PHE:CE2	3:D9:208:VAL:HG22	2.25	0.72
3:DJ:116:THR:HG23	3:DJ:191:LEU:CD2	2.17	0.72
3:DK:24:PRO:HB3	4:FK:30:TYR:O	1.89	0.72
3:DU:24:PRO:HB3	4:FU:30:TYR:O	1.89	0.72
3:Dj:116:THR:HG23	3:Dj:191:LEU:CD2	2.17	0.72
1:A5:119:TRP:HB3	1:A5:130:ILE:HG23	1.70	0.72
1:AG:106:TRP:HZ3	3:DG:26:TYR:CD1	2.08	0.72
1:AK:112:PRO:HD2	3:DL:220:VAL:CG1	2.18	0.72
1:AP:106:TRP:HZ3	3:DP:26:TYR:CD1	2.08	0.72
1:AR:75:CYS:O	1:AR:222:ARG:HD2	1.88	0.72
1:AU:119:TRP:HB3	1:AU:130:ILE:HG23	1.71	0.72
1:AV:164:TRP:HE1	1:AV:187:LEU:HD11	1.52	0.72
1:AY:75:CYS:O	1:AY:222:ARG:HD2	1.88	0.72
1:AY:119:TRP:HB3	1:AY:130:ILE:HG23	1.71	0.72
1:Ab:164:TRP:HE1	1:Ab:187:LEU:HD11	1.52	0.72
1:Ag:106:TRP:HZ3	3:Di:26:TYR:CD1	2.08	0.72
1:Am:106:TRP:HZ3	3:Do:26:TYR:CD1	2.08	0.72
1:BC:106:TRP:HZ3	3:Dr:26:TYR:CD1	2.08	0.72
1:BG:106:TRP:HZ3	3:EC:26:TYR:CD1	2.08	0.72
2:C1:112:VAL:HG21	2:C1:126:VAL:HG21	1.72	0.72
2:C3:112:VAL:HG21	2:C3:126:VAL:HG21	1.72	0.72
2:C3:212:THR:CG2	3:DU:188:LEU:HD22	2.20	0.72
2:C4:212:THR:CG2	3:EC:188:LEU:HD22	2.20	0.72
2:CI:212:THR:CG2	3:DX:188:LEU:HD22	2.20	0.72
2:CL:212:THR:CG2	3:Dk:188:LEU:HD22	2.20	0.72
2:CL:212:THR:OG1	3:Dk:189:THR:HG23	1.88	0.72
2:CU:212:THR:CG2	3:Dg:188:LEU:HD22	2.20	0.72
2:CI:212:THR:CG2	3:D8:188:LEU:HD22	2.20	0.72
2:Cw:209:VAL:N	2:Cw:210:PRO:HD3	2.02	0.72
3:D2:117:LYS:HB3	3:D2:119:LYS:CE	2.20	0.72
3:DE:106:PHE:CE2	3:DE:208:VAL:HG22	2.25	0.72
3:DQ:106:PHE:CE2	3:DQ:208:VAL:HG22	2.25	0.72
3:DQ:117:LYS:HB3	3:DQ:119:LYS:CE	2.20	0.72
3:DZ:24:PRO:HB3	4:FZ:30:TYR:O	1.89	0.72
3:Db:106:PHE:CE2	3:Db:208:VAL:HG22	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dc:117:LYS:HB3	3:Dc:119:LYS:CE	2.20	0.72
3:Dm:117:LYS:HB3	3:Dm:119:LYS:CE	2.20	0.72
1:A3:164:TRP:HE1	1:A3:187:LEU:HD11	1.52	0.72
1:AL:112:PRO:HD2	3:DM:220:VAL:CG1	2.18	0.72
1:BA:112:PRO:HD2	3:Dq:220:VAL:CG1	2.19	0.72
1:BF:106:TRP:HZ3	3:EB:26:TYR:CD1	2.08	0.72
2:CL:115:ASN:C	3:Dk:119:LYS:HZ3	1.97	0.72
2:Cs:212:THR:CG2	3:EA:188:LEU:HD22	2.20	0.72
2:Cu:212:THR:CG2	3:D5:188:LEU:HD22	2.20	0.72
3:D4:117:LYS:HB3	3:D4:119:LYS:CE	2.20	0.72
3:D8:117:LYS:HB3	3:D8:119:LYS:CE	2.20	0.72
3:DC:117:LYS:HB3	3:DC:119:LYS:CE	2.20	0.72
3:DX:106:PHE:CE2	3:DX:208:VAL:HG22	2.25	0.72
3:De:106:PHE:CE2	3:De:208:VAL:HG22	2.25	0.72
3:Df:117:LYS:HB3	3:Df:119:LYS:CE	2.20	0.72
3:Di:24:PRO:HB3	4:Fi:30:TYR:O	1.89	0.72
3:Dl:106:PHE:CE2	3:Dl:208:VAL:HG22	2.25	0.72
3:Dq:116:THR:HG23	3:Dq:191:LEU:CD2	2.17	0.72
3:EA:117:LYS:HB3	3:EA:119:LYS:CE	2.20	0.72
3:ED:24:PRO:HB3	4:Fw:30:TYR:O	1.89	0.72
1:A2:119:TRP:HB3	1:A2:130:ILE:HG23	1.71	0.71
1:AS:112:PRO:HD2	3:DP:220:VAL:CG1	2.18	0.71
1:Aa:119:TRP:HB3	1:Aa:130:ILE:HG23	1.71	0.71
1:BD:75:CYS:O	1:BD:222:ARG:HD2	1.89	0.71
1:BE:106:TRP:HZ3	3:EA:26:TYR:CD1	2.08	0.71
2:C7:112:VAL:HG21	2:C7:126:VAL:HG21	1.72	0.71
2:CA:112:VAL:HG21	2:CA:126:VAL:HG21	1.72	0.71
2:CJ:212:THR:CG2	3:DA:188:LEU:HD22	2.20	0.71
2:CT:212:THR:CG2	3:DK:188:LEU:HD22	2.20	0.71
2:CV:115:ASN:C	3:DB:119:LYS:HZ3	1.97	0.71
2:CX:212:THR:CG2	3:Dr:188:LEU:HD22	2.20	0.71
2:CY:212:THR:CG2	3:DZ:188:LEU:HD22	2.20	0.71
2:Cg:212:THR:CG2	3:D3:188:LEU:HD22	2.20	0.71
2:Ch:112:VAL:HG21	2:Ch:126:VAL:HG21	1.72	0.71
2:Ch:212:THR:CG2	3:DN:188:LEU:HD22	2.20	0.71
2:Cm:112:VAL:HG21	2:Cm:126:VAL:HG21	1.72	0.71
2:Cn:112:VAL:HG21	2:Cn:126:VAL:HG21	1.72	0.71
3:D2:106:PHE:CE2	3:D2:208:VAL:HG22	2.25	0.71
3:D4:106:PHE:CE2	3:D4:208:VAL:HG22	2.25	0.71
3:DM:117:LYS:HB3	3:DM:119:LYS:CE	2.20	0.71
3:DN:106:PHE:CE2	3:DN:208:VAL:HG22	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dc:106:PHE:CE2	3:Dc:208:VAL:HG22	2.25	0.71
3:Dd:117:LYS:HB3	3:Dd:119:LYS:CE	2.20	0.71
3:Dj:24:PRO:HB3	4:Fj:30:TYR:O	1.89	0.71
3:Ds:106:PHE:CE2	3:Ds:208:VAL:HG22	2.25	0.71
1:AA:75:CYS:O	1:AA:222:ARG:HD2	1.88	0.71
1:AB:106:TRP:HZ3	3:DB:26:TYR:CD1	2.08	0.71
1:AJ:106:TRP:HZ3	3:DJ:26:TYR:CD1	2.08	0.71
1:AM:75:CYS:O	1:AM:222:ARG:HD2	1.88	0.71
1:AP:119:TRP:HB3	1:AP:130:ILE:HG23	1.70	0.71
1:AU:106:TRP:HZ3	3:DV:26:TYR:CD1	2.08	0.71
1:Ab:119:TRP:HB3	1:Ab:130:ILE:HG23	1.70	0.71
1:Ac:106:TRP:HZ3	3:De:26:TYR:CD1	2.08	0.71
1:BA:75:CYS:O	1:BA:222:ARG:HD2	1.88	0.71
1:BB:106:TRP:HZ3	3:Dq:26:TYR:CD1	2.08	0.71
1:BC:75:CYS:O	1:BC:222:ARG:HD2	1.88	0.71
1:BI:106:TRP:HZ3	3:EE:26:TYR:CD1	2.08	0.71
2:CC:115:ASN:C	3:Dn:119:LYS:HZ3	1.97	0.71
2:CQ:212:THR:CG2	3:Dp:188:LEU:HD22	2.20	0.71
2:CR:212:THR:CG2	3:EE:188:LEU:HD22	2.20	0.71
2:CY:112:VAL:HG21	2:CY:126:VAL:HG21	1.72	0.71
2:Ca:212:THR:CG2	3:DL:188:LEU:HD22	2.20	0.71
2:Cb:212:THR:OG1	3:DT:189:THR:HG23	1.88	0.71
2:Cc:212:THR:CG2	3:ED:188:LEU:HD22	2.20	0.71
2:Ch:115:ASN:C	3:DN:119:LYS:HZ3	1.98	0.71
2:Cj:212:THR:CG2	3:DM:188:LEU:HD22	2.20	0.71
2:Cp:212:THR:CG2	3:D0:188:LEU:HD22	2.20	0.71
2:Ct:212:THR:CG2	3:DH:188:LEU:HD22	2.20	0.71
2:Cx:212:THR:CG2	3:Do:188:LEU:HD22	2.20	0.71
3:D3:106:PHE:CE2	3:D3:208:VAL:HG22	2.25	0.71
3:DK:106:PHE:CE2	3:DK:208:VAL:HG22	2.25	0.71
3:DO:106:PHE:CE2	3:DO:208:VAL:HG22	2.25	0.71
3:DT:117:LYS:HB3	3:DT:119:LYS:CE	2.20	0.71
3:Dh:24:PRO:HB3	4:Fh:30:TYR:O	1.89	0.71
3:Dh:117:LYS:HB3	3:Dh:119:LYS:CE	2.20	0.71
3:Dn:106:PHE:CE2	3:Dn:208:VAL:HG22	2.25	0.71
3:EA:106:PHE:CE2	3:EA:208:VAL:HG22	2.25	0.71
1:A4:106:TRP:HZ3	3:D5:26:TYR:CD1	2.08	0.71
1:A4:119:TRP:HB3	1:A4:130:ILE:HG23	1.70	0.71
1:A8:112:PRO:HD2	3:Da:220:VAL:CG1	2.18	0.71
1:AA:106:TRP:HZ3	3:DA:26:TYR:CD1	2.08	0.71
1:AD:119:TRP:HB3	1:AD:130:ILE:HG23	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:106:TRP:HZ3	3:DI:26:TYR:CD1	2.08	0.71
1:AM:106:TRP:HZ3	3:DM:26:TYR:CD1	2.08	0.71
1:AS:75:CYS:O	1:AS:222:ARG:HD2	1.88	0.71
1:Ac:164:TRP:HE1	1:Ac:187:LEU:HD11	1.52	0.71
1:Ah:106:TRP:HZ3	3:Dj:26:TYR:CD1	2.08	0.71
1:Ai:75:CYS:O	1:Ai:222:ARG:HD2	1.88	0.71
1:Am:119:TRP:HB3	1:Am:130:ILE:HG23	1.70	0.71
1:BH:112:PRO:HD2	3:EE:220:VAL:CG1	2.18	0.71
2:CB:212:THR:CG2	3:Df:188:LEU:HD22	2.20	0.71
2:CH:112:VAL:HG21	2:CH:126:VAL:HG21	1.72	0.71
2:CH:212:THR:CG2	3:Ds:188:LEU:HD22	2.20	0.71
2:CJ:112:VAL:HG21	2:CJ:126:VAL:HG21	1.72	0.71
2:CW:112:VAL:HG21	2:CW:126:VAL:HG21	1.72	0.71
2:Cm:212:THR:CG2	3:DD:188:LEU:HD22	2.20	0.71
2:Cs:112:VAL:HG21	2:Cs:126:VAL:HG21	1.72	0.71
2:Ct:112:VAL:HG21	2:Ct:126:VAL:HG21	1.72	0.71
2:Cw:212:THR:CG2	3:DS:188:LEU:HD22	2.20	0.71
3:D1:106:PHE:CE2	3:D1:208:VAL:HG22	2.25	0.71
3:D8:19:PRO:HG3	4:F8:17:ASN:HD21	1.56	0.71
3:DI:106:PHE:CE2	3:DI:208:VAL:HG22	2.25	0.71
3:DQ:24:PRO:HB3	4:FQ:30:TYR:O	1.89	0.71
3:DX:117:LYS:HB3	3:DX:119:LYS:CE	2.20	0.71
3:Dk:24:PRO:HB3	4:Fk:30:TYR:O	1.89	0.71
3:Dr:19:PRO:HG3	4:Fr:17:ASN:HD21	1.56	0.71
3:EB:116:THR:HG23	3:EB:191:LEU:CD2	2.17	0.71
1:A5:106:TRP:HZ3	3:D6:26:TYR:CD1	2.08	0.71
1:A7:119:TRP:HB3	1:A7:130:ILE:HG23	1.71	0.71
1:AH:164:TRP:HE1	1:AH:187:LEU:HD11	1.52	0.71
1:Ab:75:CYS:O	1:Ab:222:ARG:HD2	1.88	0.71
1:Ad:106:TRP:HZ3	3:Df:26:TYR:CD1	2.08	0.71
1:Af:106:TRP:HZ3	3:Dh:26:TYR:CD1	2.08	0.71
1:Al:75:CYS:O	1:Al:222:ARG:HD2	1.88	0.71
1:BA:119:TRP:HB3	1:BA:130:ILE:HG23	1.71	0.71
1:BG:112:PRO:HD2	3:ED:220:VAL:CG1	2.18	0.71
1:BG:119:TRP:HB3	1:BG:130:ILE:HG23	1.71	0.71
2:C8:112:VAL:HG21	2:C8:126:VAL:HG21	1.72	0.71
2:C8:209:VAL:N	2:C8:210:PRO:HD3	2.02	0.71
2:C9:212:THR:CG2	3:DI:188:LEU:HD22	2.20	0.71
2:CC:212:THR:CG2	3:Dn:188:LEU:HD22	2.20	0.71
2:CN:112:VAL:HG21	2:CN:126:VAL:HG21	1.72	0.71
2:CO:212:THR:CG2	3:DP:188:LEU:HD22	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:212:THR:CG2	3:DB:188:LEU:HD22	2.20	0.71
2:Cr:112:VAL:HG21	2:Cr:126:VAL:HG21	1.72	0.71
2:Cw:112:VAL:HG21	2:Cw:126:VAL:HG21	1.72	0.71
3:D8:106:PHE:CE2	3:D8:208:VAL:HG22	2.25	0.71
3:DA:19:PRO:HG3	4:FA:17:ASN:HD21	1.56	0.71
3:DI:117:LYS:HB3	3:DI:119:LYS:CE	2.20	0.71
3:DL:106:PHE:CE2	3:DL:208:VAL:HG22	2.25	0.71
3:DL:117:LYS:HB3	3:DL:119:LYS:CE	2.20	0.71
3:DS:19:PRO:HG3	4:FS:17:ASN:HD21	1.56	0.71
3:DU:106:PHE:CE2	3:DU:208:VAL:HG22	2.25	0.71
3:DV:19:PRO:HG3	4:FV:17:ASN:HD21	1.56	0.71
3:Dd:106:PHE:CE2	3:Dd:208:VAL:HG22	2.25	0.71
3:Dg:117:LYS:HB3	3:Dg:119:LYS:CE	2.20	0.71
3:Dh:106:PHE:CE2	3:Dh:208:VAL:HG22	2.25	0.71
3:Dn:24:PRO:HB3	4:Fn:30:TYR:O	1.89	0.71
3:Dq:106:PHE:CE2	3:Dq:208:VAL:HG22	2.25	0.71
3:EA:116:THR:HG23	3:EA:191:LEU:CD2	2.18	0.71
3:EC:117:LYS:HB3	3:EC:119:LYS:CE	2.20	0.71
1:AK:101:PHE:HD2	1:AK:143:VAL:HG11	1.56	0.71
1:Ac:112:PRO:HD2	3:Df:220:VAL:CG1	2.18	0.71
2:C5:212:THR:CG2	3:DG:188:LEU:HD22	2.20	0.71
2:CD:212:THR:CG2	3:D7:188:LEU:HD22	2.20	0.71
2:CE:212:THR:CG2	3:DF:188:LEU:HD22	2.20	0.71
2:CG:212:THR:CG2	3:EB:188:LEU:HD22	2.20	0.71
2:CI:112:VAL:HG21	2:CI:126:VAL:HG21	1.72	0.71
2:CS:212:THR:CG2	3:Dc:188:LEU:HD22	2.20	0.71
2:CX:112:VAL:HG21	2:CX:126:VAL:HG21	1.72	0.71
3:D2:19:PRO:HG3	4:F2:17:ASN:HD21	1.56	0.71
3:D3:117:LYS:HB3	3:D3:119:LYS:CE	2.20	0.71
3:D9:19:PRO:HG3	4:F9:17:ASN:HD21	1.56	0.71
3:DB:106:PHE:CE2	3:DB:208:VAL:HG22	2.25	0.71
3:DH:19:PRO:HG3	4:FH:17:ASN:HD21	1.56	0.71
3:DI:19:PRO:HG3	4:FI:17:ASN:HD21	1.56	0.71
3:DP:106:PHE:CE2	3:DP:208:VAL:HG22	2.25	0.71
3:DR:24:PRO:HB3	4:FR:30:TYR:O	1.89	0.71
3:Da:117:LYS:HB3	3:Da:119:LYS:CE	2.20	0.71
3:Db:117:LYS:HB3	3:Db:119:LYS:CE	2.20	0.71
3:Dl:19:PRO:HG3	4:Fl:17:ASN:HD21	1.56	0.71
3:EC:24:PRO:HB3	4:Fv:30:TYR:O	1.89	0.71
1:A0:101:PHE:HD2	1:A0:143:VAL:HG11	1.56	0.71
1:AD:106:TRP:HZ3	3:DD:26:TYR:CD1	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:119:TRP:HB3	1:AQ:130:ILE:HG23	1.71	0.71
1:AS:101:PHE:HD2	1:AS:143:VAL:HG11	1.56	0.71
1:AU:101:PHE:HD2	1:AU:143:VAL:HG11	1.56	0.71
1:AX:106:TRP:HZ3	3:DY:26:TYR:CD1	2.08	0.71
1:An:112:PRO:HD2	3:Dc:220:VAL:CG1	2.18	0.71
2:C6:112:VAL:HG21	2:C6:126:VAL:HG21	1.72	0.71
3:D7:19:PRO:HG3	4:F7:17:ASN:HD21	1.56	0.71
3:DM:106:PHE:CE2	3:DM:208:VAL:HG22	2.25	0.71
3:DO:117:LYS:HB3	3:DO:119:LYS:CE	2.20	0.71
3:DP:19:PRO:HG3	4:FP:17:ASN:HD21	1.56	0.71
3:DP:117:LYS:HB3	3:DP:119:LYS:CE	2.20	0.71
3:DR:106:PHE:CE2	3:DR:208:VAL:HG22	2.25	0.71
3:DT:24:PRO:HB3	4:FT:30:TYR:O	1.89	0.71
3:DW:106:PHE:CE2	3:DW:208:VAL:HG22	2.25	0.71
3:DZ:19:PRO:HG3	4:FZ:17:ASN:HD21	1.56	0.71
3:Da:106:PHE:CE2	3:Da:208:VAL:HG22	2.25	0.71
3:Dn:116:THR:HG23	3:Dn:191:LEU:CD2	2.17	0.71
1:A7:106:TRP:HZ3	3:D8:26:TYR:CD1	2.08	0.71
1:AF:106:TRP:HZ3	3:DF:26:TYR:CD1	2.08	0.71
1:AH:101:PHE:HD2	1:AH:143:VAL:HG11	1.56	0.71
1:AW:112:PRO:HD2	3:DY:220:VAL:CG1	2.18	0.71
1:AZ:119:TRP:HB3	1:AZ:130:ILE:HG23	1.71	0.71
1:Ae:106:TRP:HZ3	3:Dg:26:TYR:CD1	2.08	0.71
1:Aj:101:PHE:HD2	1:Aj:143:VAL:HG11	1.56	0.71
1:BE:112:PRO:HD2	3:EB:220:VAL:CG1	2.18	0.71
1:BI:101:PHE:HD2	1:BI:143:VAL:HG11	1.56	0.71
1:BI:112:PRO:HD2	3:EA:220:VAL:CG1	2.18	0.71
2:C1:212:THR:CG2	3:DO:188:LEU:HD22	2.20	0.71
2:CW:212:THR:CG2	3:DJ:188:LEU:HD22	2.20	0.71
2:Co:212:THR:CG2	3:DR:188:LEU:HD22	2.20	0.71
3:D5:106:PHE:CE2	3:D5:208:VAL:HG22	2.25	0.71
3:D7:106:PHE:CE2	3:D7:208:VAL:HG22	2.25	0.71
3:D9:117:LYS:HB3	3:D9:119:LYS:CE	2.20	0.71
3:DA:116:THR:CG2	3:DA:191:LEU:HD21	2.21	0.71
3:DK:117:LYS:HB3	3:DK:119:LYS:CE	2.20	0.71
3:DR:19:PRO:HG3	4:FR:17:ASN:HD21	1.56	0.71
3:Df:106:PHE:CE2	3:Df:208:VAL:HG22	2.25	0.71
3:Dj:106:PHE:CE2	3:Dj:208:VAL:HG22	2.25	0.71
3:Dp:106:PHE:CE2	3:Dp:208:VAL:HG22	2.25	0.71
3:EE:116:THR:HG23	3:EE:191:LEU:CD2	2.17	0.71
1:A3:106:TRP:HZ3	3:D4:26:TYR:CD1	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:106:TRP:HZ3	3:D7:26:TYR:CD1	2.08	0.71
1:AC:106:TRP:HZ3	3:DC:26:TYR:CD1	2.08	0.71
1:AF:101:PHE:HD2	1:AF:143:VAL:HG11	1.56	0.71
1:AK:106:TRP:HZ3	3:DK:26:TYR:CD1	2.08	0.71
1:Ab:101:PHE:HD2	1:Ab:143:VAL:HG11	1.56	0.71
2:CG:13:ARG:HG3	2:CG:29:SER:O	1.91	0.71
3:DD:106:PHE:CE2	3:DD:208:VAL:HG22	2.25	0.71
3:DH:117:LYS:HB3	3:DH:119:LYS:CE	2.20	0.71
3:DU:117:LYS:HB3	3:DU:119:LYS:CE	2.20	0.71
3:De:117:LYS:HB3	3:De:119:LYS:CE	2.20	0.71
3:Dg:106:PHE:CE2	3:Dg:208:VAL:HG22	2.25	0.71
3:Dh:19:PRO:HG3	4:Fh:17:ASN:HD21	1.56	0.71
3:Dm:19:PRO:HG3	4:Fm:17:ASN:HD21	1.56	0.71
3:Ds:117:LYS:HB3	3:Ds:119:LYS:CE	2.20	0.71
3:ED:19:PRO:HG3	4:Fw:17:ASN:HD21	1.56	0.71
1:A7:101:PHE:HD2	1:A7:143:VAL:HG11	1.56	0.71
1:A8:106:TRP:HZ3	3:D9:26:TYR:CD1	2.08	0.71
1:A8:164:TRP:HE1	1:A8:187:LEU:HD11	1.52	0.71
1:A9:101:PHE:HD2	1:A9:143:VAL:HG11	1.56	0.71
1:AC:119:TRP:HB3	1:AC:130:ILE:HG23	1.71	0.71
1:AE:106:TRP:HZ3	3:DE:26:TYR:CD1	2.08	0.71
1:AF:119:TRP:HB3	1:AF:130:ILE:HG23	1.70	0.71
1:AR:112:PRO:HD2	3:DS:220:VAL:CG1	2.18	0.71
1:AV:101:PHE:HD2	1:AV:143:VAL:HG11	1.56	0.71
1:Ac:101:PHE:HD2	1:Ac:143:VAL:HG11	1.56	0.71
1:Am:101:PHE:HD2	1:Am:143:VAL:HG11	1.56	0.71
1:BH:106:TRP:HZ3	3:ED:26:TYR:CD1	2.08	0.71
2:C4:13:ARG:HG3	2:C4:29:SER:O	1.91	0.71
2:CK:212:THR:CG2	3:Db:188:LEU:HD22	2.20	0.71
2:CZ:212:THR:CG2	3:Dq:188:LEU:HD22	2.20	0.71
2:Cj:13:ARG:HG3	2:Cj:29:SER:O	1.91	0.71
2:Cm:13:ARG:HG3	2:Cm:29:SER:O	1.91	0.71
2:Cx:13:ARG:HG3	2:Cx:29:SER:O	1.91	0.71
3:D5:19:PRO:HG3	4:F5:17:ASN:HD21	1.56	0.71
3:DE:116:THR:HG23	3:DE:191:LEU:CD2	2.17	0.71
3:DJ:106:PHE:CE2	3:DJ:208:VAL:HG22	2.25	0.71
3:DL:19:PRO:HG3	4:FL:17:ASN:HD21	1.56	0.71
3:DZ:116:THR:HG23	3:DZ:191:LEU:CD2	2.18	0.71
3:De:19:PRO:HG3	4:Fe:17:ASN:HD21	1.56	0.71
3:Dg:19:PRO:HG3	4:Fg:17:ASN:HD21	1.56	0.71
3:Dg:116:THR:CG2	3:Dg:191:LEU:HD21	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Do:117:LYS:HB3	3:Do:119:LYS:CE	2.20	0.71
3:ED:116:THR:CG2	3:ED:191:LEU:HD21	2.21	0.71
3:EE:106:PHE:CE2	3:EE:208:VAL:HG22	2.25	0.71
1:A2:164:TRP:HE1	1:A2:187:LEU:HD11	1.52	0.71
1:AD:101:PHE:HD2	1:AD:143:VAL:HG11	1.56	0.71
1:AI:101:PHE:HD2	1:AI:143:VAL:HG11	1.56	0.71
1:AM:101:PHE:HD2	1:AM:143:VAL:HG11	1.56	0.71
1:AO:101:PHE:HD2	1:AO:143:VAL:HG11	1.56	0.71
1:AV:106:TRP:HZ3	3:DW:26:TYR:CD1	2.08	0.71
1:AZ:106:TRP:HZ3	3:D0:26:TYR:CD1	2.08	0.71
1:Ah:119:TRP:HB3	1:Ah:130:ILE:HG23	1.70	0.71
1:Ak:119:TRP:HB3	1:Ak:130:ILE:HG23	1.71	0.71
1:BF:101:PHE:HD2	1:BF:143:VAL:HG11	1.56	0.71
2:C9:13:ARG:HG3	2:C9:29:SER:O	1.91	0.71
2:CK:112:VAL:HG21	2:CK:126:VAL:HG21	1.72	0.71
2:CP:115:ASN:C	3:D1:119:LYS:HZ3	1.98	0.71
2:Cc:13:ARG:HG3	2:Cc:29:SER:O	1.91	0.71
2:Cq:212:THR:CG2	3:DY:188:LEU:HD22	2.20	0.71
2:Cr:212:THR:CG2	3:DI:188:LEU:HD22	2.20	0.71
3:D0:19:PRO:HG3	4:F0:17:ASN:HD21	1.56	0.71
3:D0:106:PHE:CE2	3:D0:208:VAL:HG22	2.25	0.71
3:D6:19:PRO:HG3	4:F6:17:ASN:HD21	1.56	0.71
3:DC:24:PRO:HB3	4:FC:30:TYR:O	1.89	0.71
3:DG:117:LYS:HB3	3:DG:119:LYS:CE	2.20	0.71
3:DN:117:LYS:HB3	3:DN:119:LYS:CE	2.20	0.71
3:DO:116:THR:CG2	3:DO:191:LEU:HD21	2.21	0.71
3:DS:106:PHE:CE2	3:DS:208:VAL:HG22	2.25	0.71
3:DT:106:PHE:CE2	3:DT:208:VAL:HG22	2.25	0.71
3:DZ:106:PHE:CE2	3:DZ:208:VAL:HG22	2.25	0.71
3:Dd:116:THR:CG2	3:Dd:191:LEU:HD21	2.21	0.71
3:Di:117:LYS:HB3	3:Di:119:LYS:CE	2.20	0.71
3:Dl:117:LYS:HB3	3:Dl:119:LYS:CE	2.20	0.71
3:EB:19:PRO:HG3	4:Fu:17:ASN:HD21	1.56	0.71
1:A0:112:PRO:HD2	3:D2:220:VAL:CG1	2.18	0.70
1:AA:101:PHE:HD2	1:AA:143:VAL:HG11	1.56	0.70
1:AL:119:TRP:HB3	1:AL:130:ILE:HG23	1.70	0.70
1:BG:164:TRP:HE1	1:BG:187:LEU:HD11	1.52	0.70
2:C3:13:ARG:HG3	2:C3:29:SER:O	1.91	0.70
2:CB:54:LEU:HD12	2:CB:220:ALA:HB1	1.74	0.70
2:CL:13:ARG:HG3	2:CL:29:SER:O	1.91	0.70
2:CM:13:ARG:HG3	2:CM:29:SER:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CN:13:ARG:HG3	2:CN:29:SER:O	1.91	0.70
2:CO:13:ARG:HG3	2:CO:29:SER:O	1.91	0.70
2:CV:13:ARG:HG3	2:CV:29:SER:O	1.91	0.70
2:Cf:212:THR:CG2	3:DV:188:LEU:HD22	2.20	0.70
2:Cs:54:LEU:HD12	2:Cs:220:ALA:HB1	1.73	0.70
2:Cw:13:ARG:HG3	2:Cw:29:SER:O	1.91	0.70
3:D5:117:LYS:HB3	3:D5:119:LYS:CE	2.20	0.70
3:DE:117:LYS:HB3	3:DE:119:LYS:CE	2.20	0.70
3:DH:106:PHE:CE2	3:DH:208:VAL:HG22	2.25	0.70
3:DV:106:PHE:CE2	3:DV:208:VAL:HG22	2.25	0.70
3:Di:19:PRO:HG3	4:Fi:17:ASN:HD21	1.56	0.70
3:Dq:117:LYS:HB3	3:Dq:119:LYS:CE	2.20	0.70
1:AL:106:TRP:HZ3	3:DL:26:TYR:CD1	2.08	0.70
1:Af:101:PHE:HD2	1:Af:143:VAL:HG11	1.56	0.70
2:C2:54:LEU:HD12	2:C2:220:ALA:HB1	1.73	0.70
2:C7:13:ARG:HG3	2:C7:29:SER:O	1.91	0.70
2:CO:54:LEU:HD12	2:CO:220:ALA:HB1	1.73	0.70
2:CQ:13:ARG:HG3	2:CQ:29:SER:O	1.91	0.70
2:CW:54:LEU:HD12	2:CW:220:ALA:HB1	1.73	0.70
2:Ca:13:ARG:HG3	2:Ca:29:SER:O	1.91	0.70
2:Cf:115:ASN:C	3:DV:119:LYS:HZ3	1.99	0.70
2:Ch:13:ARG:HG3	2:Ch:29:SER:O	1.91	0.70
2:Ci:13:ARG:HG3	2:Ci:29:SER:O	1.91	0.70
2:Cq:112:VAL:HG21	2:Cq:126:VAL:HG21	1.72	0.70
3:DD:117:LYS:HB3	3:DD:119:LYS:CE	2.20	0.70
3:DU:19:PRO:HG3	4:FU:17:ASN:HD21	1.56	0.70
3:DY:19:PRO:HG3	4:FY:17:ASN:HD21	1.56	0.70
3:Dj:117:LYS:HB3	3:Dj:119:LYS:CE	2.20	0.70
3:Dm:106:PHE:CE2	3:Dm:208:VAL:HG22	2.25	0.70
3:Dn:117:LYS:HB3	3:Dn:119:LYS:CE	2.20	0.70
3:Do:106:PHE:CE2	3:Do:208:VAL:HG22	2.25	0.70
3:EB:116:THR:CG2	3:EB:191:LEU:HD21	2.21	0.70
1:A1:101:PHE:HD2	1:A1:143:VAL:HG11	1.56	0.70
1:A2:106:TRP:HZ3	3:D3:26:TYR:CD1	2.08	0.70
1:AM:119:TRP:HB3	1:AM:130:ILE:HG23	1.70	0.70
1:AX:101:PHE:HD2	1:AX:143:VAL:HG11	1.56	0.70
1:Af:119:TRP:HB3	1:Af:130:ILE:HG23	1.70	0.70
1:Ak:106:TRP:HZ3	3:Dm:26:TYR:CD1	2.08	0.70
1:BH:164:TRP:HE1	1:BH:187:LEU:HD11	1.51	0.70
2:C8:13:ARG:HG3	2:C8:29:SER:O	1.91	0.70
2:CD:112:VAL:HG21	2:CD:126:VAL:HG21	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:13:ARG:HG3	2:CH:29:SER:O	1.91	0.70
2:CI:54:LEU:HD12	2:CI:220:ALA:HB1	1.74	0.70
2:CK:13:ARG:HG3	2:CK:29:SER:O	1.91	0.70
2:Ce:13:ARG:HG3	2:Ce:29:SER:O	1.91	0.70
2:Ci:112:VAL:HG21	2:Ci:126:VAL:HG21	1.72	0.70
3:D3:19:PRO:HG3	4:F3:17:ASN:HD21	1.56	0.70
3:D6:106:PHE:CE2	3:D6:208:VAL:HG22	2.25	0.70
3:DA:106:PHE:CE2	3:DA:208:VAL:HG22	2.25	0.70
3:DB:19:PRO:HG3	4:FB:17:ASN:HD21	1.56	0.70
3:DC:116:THR:CG2	3:DC:191:LEU:HD21	2.21	0.70
3:DG:106:PHE:CE2	3:DG:208:VAL:HG22	2.25	0.70
3:DW:19:PRO:HG3	4:FW:17:ASN:HD21	1.56	0.70
3:Di:106:PHE:CE2	3:Di:208:VAL:HG22	2.25	0.70
3:Dk:19:PRO:HG3	4:Fk:17:ASN:HD21	1.56	0.70
3:Dk:116:THR:CG2	3:Dk:191:LEU:HD21	2.21	0.70
3:Dn:19:PRO:HG3	4:Fn:17:ASN:HD21	1.56	0.70
3:EC:106:PHE:CE2	3:EC:208:VAL:HG22	2.25	0.70
1:A0:106:TRP:HZ3	3:D1:26:TYR:CD1	2.08	0.70
1:AG:112:PRO:HD2	3:DH:220:VAL:CG1	2.18	0.70
1:AR:101:PHE:HD2	1:AR:143:VAL:HG11	1.56	0.70
1:BD:106:TRP:HZ3	3:Ds:26:TYR:CD1	2.08	0.70
2:C0:112:VAL:HG21	2:C0:126:VAL:HG21	1.72	0.70
2:C0:212:THR:CG2	3:DQ:188:LEU:HD22	2.20	0.70
2:C2:112:VAL:HG21	2:C2:126:VAL:HG21	1.72	0.70
2:C4:54:LEU:HD12	2:C4:220:ALA:HB1	1.74	0.70
2:C5:13:ARG:HG3	2:C5:29:SER:O	1.91	0.70
2:C6:212:THR:CG2	3:DE:188:LEU:HD22	2.20	0.70
2:C8:54:LEU:HD12	2:C8:220:ALA:HB1	1.74	0.70
2:CJ:13:ARG:HG3	2:CJ:29:SER:O	1.91	0.70
2:CS:54:LEU:HD12	2:CS:220:ALA:HB1	1.73	0.70
2:CW:13:ARG:HG3	2:CW:29:SER:O	1.91	0.70
2:Cd:112:VAL:HG21	2:Cd:126:VAL:HG21	1.72	0.70
2:Cl:13:ARG:HG3	2:Cl:29:SER:O	1.91	0.70
2:Cn:13:ARG:HG3	2:Cn:29:SER:O	1.91	0.70
2:Cp:13:ARG:HG3	2:Cp:29:SER:O	1.91	0.70
2:Cs:13:ARG:HG3	2:Cs:29:SER:O	1.91	0.70
3:DC:106:PHE:CE2	3:DC:208:VAL:HG22	2.25	0.70
3:DF:106:PHE:CE2	3:DF:208:VAL:HG22	2.25	0.70
3:DY:116:THR:CG2	3:DY:191:LEU:HD21	2.21	0.70
3:DZ:117:LYS:HB3	3:DZ:119:LYS:CE	2.20	0.70
3:Dd:19:PRO:HG3	4:Fd:17:ASN:HD21	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Do:116:THR:CG2	3:Do:191:LEU:HD21	2.21	0.70
3:Ds:19:PRO:HG3	4:Fs:17:ASN:HD21	1.56	0.70
3:EB:117:LYS:HB3	3:EB:119:LYS:CE	2.20	0.70
3:ED:106:PHE:CE2	3:ED:208:VAL:HG22	2.25	0.70
1:AH:106:TRP:HZ3	3:DH:26:TYR:CD1	2.08	0.70
1:AN:101:PHE:HD2	1:AN:143:VAL:HG11	1.56	0.70
1:Aa:239:PHE:CD1	3:Dc:170:TYR:HD2	2.10	0.70
1:Ak:112:PRO:HD2	3:Dn:220:VAL:CG1	2.18	0.70
1:BA:101:PHE:HD2	1:BA:143:VAL:HG11	1.56	0.70
1:BB:101:PHE:HD2	1:BB:143:VAL:HG11	1.56	0.70
1:BC:239:PHE:CD1	3:Dr:170:TYR:HD2	2.10	0.70
1:BE:239:PHE:CD1	3:EA:170:TYR:HD2	2.10	0.70
2:C4:112:VAL:HG21	2:C4:126:VAL:HG21	1.72	0.70
2:C7:212:THR:CG2	3:Dm:188:LEU:HD22	2.20	0.70
2:CB:13:ARG:HG3	2:CB:29:SER:O	1.91	0.70
2:CE:13:ARG:HG3	2:CE:29:SER:O	1.91	0.70
2:CG:112:VAL:HG21	2:CG:126:VAL:HG21	1.72	0.70
2:CH:54:LEU:HD12	2:CH:220:ALA:HB1	1.74	0.70
2:CU:13:ARG:HG3	2:CU:29:SER:O	1.91	0.70
2:CV:54:LEU:HD12	2:CV:220:ALA:HB1	1.74	0.70
2:Cd:13:ARG:HG3	2:Cd:29:SER:O	1.91	0.70
2:Cm:54:LEU:HD12	2:Cm:220:ALA:HB1	1.73	0.70
2:Cu:115:ASN:C	3:D5:119:LYS:HZ3	1.99	0.70
3:D5:116:THR:CG2	3:D5:191:LEU:HD21	2.21	0.70
3:Di:116:THR:CG2	3:Di:191:LEU:HD21	2.21	0.70
1:A2:239:PHE:CD1	3:D3:170:TYR:HD2	2.10	0.70
1:A4:239:PHE:CD1	3:D5:170:TYR:HD2	2.10	0.70
1:AD:186:TRP:CZ2	1:AD:188:PRO:HA	2.27	0.70
1:AG:239:PHE:CD1	3:DG:170:TYR:HD2	2.10	0.70
1:AP:101:PHE:HD2	1:AP:143:VAL:HG11	1.56	0.70
1:Ae:101:PHE:HD2	1:Ae:143:VAL:HG11	1.56	0.70
1:Af:186:TRP:CZ2	1:Af:188:PRO:HA	2.27	0.70
1:Ah:239:PHE:CD1	3:Dj:170:TYR:HD2	2.10	0.70
1:Ai:239:PHE:CD1	3:Dk:170:TYR:HD2	2.10	0.70
1:Aj:239:PHE:CD1	3:Di:170:TYR:HD2	2.10	0.70
1:BA:186:TRP:CZ2	1:BA:188:PRO:HA	2.27	0.70
1:BF:239:PHE:CD1	3:EB:170:TYR:HD2	2.10	0.70
2:C2:13:ARG:HG3	2:C2:29:SER:O	1.91	0.70
2:C4:115:ASN:C	3:EC:119:LYS:HZ3	1.99	0.70
2:C9:54:LEU:HD12	2:C9:220:ALA:HB1	1.74	0.70
2:CA:13:ARG:HG3	2:CA:29:SER:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:13:ARG:HG3	2:CD:29:SER:O	1.91	0.70
2:CT:119:ALA:O	2:CT:204:GLY:HA3	1.92	0.70
2:CV:112:VAL:HG21	2:CV:126:VAL:HG21	1.72	0.70
2:CX:13:ARG:HG3	2:CX:29:SER:O	1.91	0.70
2:Ck:13:ARG:HG3	2:Ck:29:SER:O	1.91	0.70
2:Cw:54:LEU:HD12	2:Cw:220:ALA:HB1	1.73	0.70
2:Cx:54:LEU:HD12	2:Cx:220:ALA:HB1	1.73	0.70
3:D0:117:LYS:HB3	3:D0:119:LYS:CE	2.20	0.70
3:DF:19:PRO:HG3	4:FF:17:ASN:HD21	1.56	0.70
3:DF:117:LYS:HB3	3:DF:119:LYS:CE	2.20	0.70
3:DJ:19:PRO:HG3	4:FJ:17:ASN:HD21	1.56	0.70
3:DM:19:PRO:HG3	4:FM:17:ASN:HD21	1.56	0.70
3:Dk:117:LYS:HB3	3:Dk:119:LYS:CE	2.20	0.70
3:Dr:106:PHE:CE2	3:Dr:208:VAL:HG22	2.25	0.70
3:Dr:117:LYS:HB3	3:Dr:119:LYS:CE	2.20	0.70
3:EB:106:PHE:CE2	3:EB:208:VAL:HG22	2.25	0.70
1:AI:186:TRP:CZ2	1:AI:188:PRO:HA	2.27	0.70
1:AN:82:LEU:HD11	1:AN:211:TYR:CD2	2.26	0.70
1:AP:186:TRP:CZ2	1:AP:188:PRO:HA	2.27	0.70
1:AR:186:TRP:CZ2	1:AR:188:PRO:HA	2.27	0.70
1:AT:186:TRP:CZ2	1:AT:188:PRO:HA	2.27	0.70
1:Al:186:TRP:CZ2	1:Al:188:PRO:HA	2.27	0.70
1:Al:239:PHE:CD1	3:Dn:170:TYR:HD2	2.10	0.70
1:BG:186:TRP:CZ2	1:BG:188:PRO:HA	2.27	0.70
2:CA:212:THR:CG2	3:DW:188:LEU:HD22	2.20	0.70
2:CB:119:ALA:O	2:CB:204:GLY:HA3	1.92	0.70
2:CE:112:VAL:HG21	2:CE:126:VAL:HG21	1.72	0.70
2:CP:13:ARG:HG3	2:CP:29:SER:O	1.91	0.70
2:CP:119:ALA:O	2:CP:204:GLY:HA3	1.92	0.70
2:CQ:119:ALA:O	2:CQ:204:GLY:HA3	1.92	0.70
2:CS:13:ARG:HG3	2:CS:29:SER:O	1.91	0.70
2:CT:13:ARG:HG3	2:CT:29:SER:O	1.91	0.70
2:CX:54:LEU:HD12	2:CX:220:ALA:HB1	1.73	0.70
2:CY:13:ARG:HG3	2:CY:29:SER:O	1.91	0.70
2:Cc:119:ALA:O	2:Cc:204:GLY:HA3	1.92	0.70
2:Cf:13:ARG:HG3	2:Cf:29:SER:O	1.91	0.70
2:Cg:54:LEU:HD12	2:Cg:220:ALA:HB1	1.74	0.70
2:Ci:54:LEU:HD12	2:Ci:220:ALA:HB1	1.73	0.70
2:Cq:13:ARG:HG3	2:Cq:29:SER:O	1.91	0.70
2:Cu:54:LEU:HD12	2:Cu:220:ALA:HB1	1.73	0.70
2:Cv:13:ARG:HG3	2:Cv:29:SER:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D6:117:LYS:HB3	3:D6:119:LYS:CE	2.20	0.70
3:DQ:19:PRO:HG3	4:FQ:17:ASN:HD21	1.56	0.70
3:DS:117:LYS:HB3	3:DS:119:LYS:CE	2.20	0.70
3:Do:19:PRO:HG3	4:Fo:17:ASN:HD21	1.56	0.70
3:EE:19:PRO:HG3	4:Fx:17:ASN:HD21	1.56	0.70
1:A3:101:PHE:HD2	1:A3:143:VAL:HG11	1.56	0.70
1:A6:186:TRP:CZ2	1:A6:188:PRO:HA	2.27	0.70
1:AE:112:PRO:HD2	3:DA:220:VAL:CG1	2.18	0.70
1:AH:239:PHE:CD1	3:DH:170:TYR:HD2	2.10	0.70
1:AJ:239:PHE:CD1	3:DJ:170:TYR:HD2	2.10	0.70
1:AP:239:PHE:CD1	3:DP:170:TYR:HD2	2.10	0.70
1:AR:82:LEU:HD11	1:AR:211:TYR:CD2	2.26	0.70
1:AX:82:LEU:HD11	1:AX:211:TYR:CD2	2.26	0.70
1:AY:239:PHE:CD1	3:DZ:170:TYR:HD2	2.10	0.70
1:Aa:112:PRO:HD2	3:Dd:220:VAL:CG1	2.18	0.70
1:Ae:239:PHE:CD1	3:Dg:170:TYR:HD2	2.10	0.70
1:Ai:112:PRO:HD2	3:Di:220:VAL:CG1	2.18	0.70
1:An:186:TRP:CZ2	1:An:188:PRO:HA	2.27	0.70
1:BD:104:VAL:HG22	1:BD:197:LEU:CD2	2.22	0.70
2:C0:13:ARG:HG3	2:C0:29:SER:O	1.91	0.70
2:CY:119:ALA:O	2:CY:204:GLY:HA3	1.92	0.70
2:Ce:54:LEU:HD12	2:Ce:220:ALA:HB1	1.73	0.70
2:Cf:119:ALA:O	2:Cf:204:GLY:HA3	1.92	0.70
2:Ch:208:THR:OG1	2:Ch:210:PRO:HD3	1.92	0.70
3:DB:117:LYS:HB3	3:DB:119:LYS:CE	2.20	0.70
3:DG:19:PRO:HG3	4:FG:17:ASN:HD21	1.56	0.70
3:DH:42:ASN:ND2	3:DH:44:ILE:H	1.90	0.70
3:DO:19:PRO:HG3	4:FO:17:ASN:HD21	1.56	0.70
3:DY:106:PHE:CE2	3:DY:208:VAL:HG22	2.25	0.70
3:Dc:19:PRO:HG3	4:Fc:17:ASN:HD21	1.56	0.70
3:Dk:106:PHE:CE2	3:Dk:208:VAL:HG22	2.25	0.70
3:ED:42:ASN:ND2	3:ED:44:ILE:H	1.90	0.70
3:EE:42:ASN:ND2	3:EE:44:ILE:H	1.90	0.70
1:A1:186:TRP:CZ2	1:A1:188:PRO:HA	2.27	0.70
1:AF:186:TRP:CZ2	1:AF:188:PRO:HA	2.27	0.70
1:AK:186:TRP:CZ2	1:AK:188:PRO:HA	2.27	0.70
1:AL:186:TRP:CZ2	1:AL:188:PRO:HA	2.27	0.70
1:Aj:82:LEU:HD11	1:Aj:211:TYR:CD2	2.26	0.70
1:Aj:88:PHE:HA	1:Aj:207:CYS:HA	1.74	0.70
1:Aj:186:TRP:CZ2	1:Aj:188:PRO:HA	2.27	0.70
1:Am:186:TRP:CZ2	1:Am:188:PRO:HA	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:An:101:PHE:HD2	1:An:143:VAL:HG11	1.56	0.70
1:An:106:TRP:HZ3	3:Db:26:TYR:CD1	2.08	0.70
1:BD:101:PHE:HD2	1:BD:143:VAL:HG11	1.56	0.70
1:BF:104:VAL:HG22	1:BF:197:LEU:CD2	2.22	0.70
1:BH:101:PHE:HD2	1:BH:143:VAL:HG11	1.56	0.70
1:BI:104:VAL:HG22	1:BI:197:LEU:CD2	2.22	0.70
2:C0:208:THR:OG1	2:C0:210:PRO:HD3	1.92	0.70
2:C3:54:LEU:HD12	2:C3:220:ALA:HB1	1.73	0.70
2:CE:119:ALA:O	2:CE:204:GLY:HA3	1.92	0.70
2:CJ:54:LEU:HD12	2:CJ:220:ALA:HB1	1.74	0.70
2:CQ:112:VAL:HG21	2:CQ:126:VAL:HG21	1.72	0.70
2:CZ:13:ARG:HG3	2:CZ:29:SER:O	1.91	0.70
2:Ca:54:LEU:HD12	2:Ca:220:ALA:HB1	1.74	0.70
2:Cj:208:THR:OG1	2:Cj:210:PRO:HD3	1.92	0.70
2:Ck:26:SER:O	2:Ck:28:GLY:N	2.25	0.70
2:Cm:119:ALA:O	2:Cm:204:GLY:HA3	1.92	0.70
2:Cu:13:ARG:HG3	2:Cu:29:SER:O	1.91	0.70
2:Cu:208:THR:OG1	2:Cu:210:PRO:HD3	1.92	0.70
3:Dn:116:THR:CG2	3:Dn:191:LEU:HD21	2.21	0.70
3:ED:117:LYS:HB3	3:ED:119:LYS:CE	2.20	0.70
1:A0:186:TRP:CZ2	1:A0:188:PRO:HA	2.27	0.70
1:A3:186:TRP:CZ2	1:A3:188:PRO:HA	2.27	0.70
1:A3:239:PHE:CD1	3:D4:170:TYR:HD2	2.10	0.70
1:A6:239:PHE:CD1	3:D7:170:TYR:HD2	2.10	0.70
1:AA:186:TRP:CZ2	1:AA:188:PRO:HA	2.27	0.70
1:AC:239:PHE:CD1	3:DC:170:TYR:HD2	2.10	0.70
1:AV:186:TRP:CZ2	1:AV:188:PRO:HA	2.27	0.70
1:AW:101:PHE:HD2	1:AW:143:VAL:HG11	1.56	0.70
1:AZ:104:VAL:HG22	1:AZ:197:LEU:CD2	2.22	0.70
1:AZ:112:PRO:HD2	3:D1:220:VAL:CG1	2.18	0.70
1:Aa:186:TRP:CZ2	1:Aa:188:PRO:HA	2.27	0.70
1:Ab:104:VAL:HG22	1:Ab:197:LEU:CD2	2.22	0.70
1:Ac:104:VAL:HG22	1:Ac:197:LEU:CD2	2.22	0.70
1:Ae:104:VAL:HG22	1:Ae:197:LEU:CD2	2.22	0.70
1:Af:76:THR:HB	1:Af:220:CYS:HB2	1.74	0.70
1:Ah:104:VAL:HG22	1:Ah:197:LEU:CD2	2.22	0.70
1:Ak:104:VAL:HG22	1:Ak:197:LEU:CD2	2.22	0.70
1:Ao:104:VAL:HG22	1:Ao:197:LEU:CD2	2.22	0.70
1:BD:186:TRP:CZ2	1:BD:188:PRO:HA	2.27	0.70
1:BG:104:VAL:HG22	1:BG:197:LEU:CD2	2.22	0.70
1:BI:76:THR:HB	1:BI:220:CYS:HB2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:54:LEU:HD12	2:C1:220:ALA:HB1	1.73	0.70
2:C1:208:THR:OG1	2:C1:210:PRO:HD3	1.92	0.70
2:CF:26:SER:O	2:CF:28:GLY:N	2.25	0.70
2:CG:208:THR:OG1	2:CG:210:PRO:HD3	1.92	0.70
2:CH:208:THR:OG1	2:CH:210:PRO:HD3	1.92	0.70
2:CR:26:SER:O	2:CR:28:GLY:N	2.25	0.70
2:CS:119:ALA:O	2:CS:204:GLY:HA3	1.92	0.70
2:CV:208:THR:OG1	2:CV:210:PRO:HD3	1.92	0.70
2:CZ:208:THR:OG1	2:CZ:210:PRO:HD3	1.92	0.70
2:Cb:208:THR:OG1	2:Cb:210:PRO:HD3	1.92	0.70
2:Cd:26:SER:O	2:Cd:28:GLY:N	2.25	0.70
2:Cd:54:LEU:HD12	2:Cd:220:ALA:HB1	1.74	0.70
2:Ci:26:SER:O	2:Ci:28:GLY:N	2.25	0.70
2:Cj:54:LEU:HD12	2:Cj:220:ALA:HB1	1.74	0.70
2:Cn:119:ALA:O	2:Cn:204:GLY:HA3	1.92	0.70
2:Cv:26:SER:O	2:Cv:28:GLY:N	2.25	0.70
3:D1:19:PRO:HG3	4:F1:17:ASN:HD21	1.56	0.70
3:DE:19:PRO:HG3	4:FE:17:ASN:HD21	1.56	0.70
3:DG:42:ASN:ND2	3:DG:44:ILE:H	1.90	0.70
3:DL:116:THR:CG2	3:DL:191:LEU:HD21	2.21	0.70
3:DT:19:PRO:HG3	4:FT:17:ASN:HD21	1.56	0.70
3:DU:42:ASN:ND2	3:DU:44:ILE:H	1.90	0.70
3:Da:42:ASN:ND2	3:Da:44:ILE:H	1.90	0.70
3:Dc:42:ASN:ND2	3:Dc:44:ILE:H	1.90	0.70
3:Dj:116:THR:CG2	3:Dj:191:LEU:HD21	2.21	0.70
1:A1:239:PHE:CD1	3:D2:170:TYR:HD2	2.10	0.69
1:A3:76:THR:HB	1:A3:220:CYS:HB2	1.74	0.69
1:A5:186:TRP:CZ2	1:A5:188:PRO:HA	2.27	0.69
1:A5:239:PHE:CD1	3:D6:170:TYR:HD2	2.10	0.69
1:A6:104:VAL:HG22	1:A6:197:LEU:CD2	2.22	0.69
1:A9:239:PHE:CD1	3:Da:170:TYR:HD2	2.10	0.69
1:AB:104:VAL:HG22	1:AB:197:LEU:CD2	2.22	0.69
1:AH:82:LEU:HD11	1:AH:211:TYR:CD2	2.26	0.69
1:AN:88:PHE:HA	1:AN:207:CYS:HA	1.74	0.69
1:AQ:88:PHE:HA	1:AQ:207:CYS:HA	1.74	0.69
1:AT:88:PHE:HA	1:AT:207:CYS:HA	1.74	0.69
1:AX:43:LEU:N	1:AX:43:LEU:HD23	2.07	0.69
1:AY:101:PHE:HD2	1:AY:143:VAL:HG11	1.56	0.69
1:AZ:43:LEU:HD23	1:AZ:43:LEU:N	2.07	0.69
1:AZ:186:TRP:CZ2	1:AZ:188:PRO:HA	2.27	0.69
1:Aa:88:PHE:HA	1:Aa:207:CYS:HA	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ac:88:PHE:HA	1:Ac:207:CYS:HA	1.74	0.69
1:Ad:101:PHE:HD2	1:Ad:143:VAL:HG11	1.56	0.69
1:Ae:43:LEU:HD23	1:Ae:43:LEU:N	2.07	0.69
1:Ag:101:PHE:HD2	1:Ag:143:VAL:HG11	1.56	0.69
1:Ak:43:LEU:N	1:Ak:43:LEU:HD23	2.07	0.69
1:Ao:239:PHE:CD1	3:DS:170:TYR:HD2	2.10	0.69
1:BG:88:PHE:HA	1:BG:207:CYS:HA	1.74	0.69
2:C2:119:ALA:O	2:C2:204:GLY:HA3	1.92	0.69
2:C8:119:ALA:O	2:C8:204:GLY:HA3	1.92	0.69
2:CA:26:SER:O	2:CA:28:GLY:N	2.25	0.69
2:CA:119:ALA:O	2:CA:204:GLY:HA3	1.92	0.69
2:CB:26:SER:O	2:CB:28:GLY:N	2.25	0.69
2:CF:13:ARG:HG3	2:CF:29:SER:O	1.91	0.69
2:CH:26:SER:O	2:CH:28:GLY:N	2.25	0.69
2:CI:208:THR:OG1	2:CI:210:PRO:HD3	1.92	0.69
2:CJ:119:ALA:O	2:CJ:204:GLY:HA3	1.92	0.69
2:CM:26:SER:O	2:CM:28:GLY:N	2.25	0.69
2:CN:26:SER:O	2:CN:28:GLY:N	2.26	0.69
2:CN:54:LEU:HD12	2:CN:220:ALA:HB1	1.74	0.69
2:CR:119:ALA:O	2:CR:204:GLY:HA3	1.92	0.69
2:CU:112:VAL:HG21	2:CU:126:VAL:HG21	1.72	0.69
2:Cl:54:LEU:HD12	2:Cl:220:ALA:HB1	1.73	0.69
2:Cl:208:THR:OG1	2:Cl:210:PRO:HD3	1.92	0.69
2:Cp:26:SER:O	2:Cp:28:GLY:N	2.25	0.69
2:Cp:119:ALA:O	2:Cp:204:GLY:HA3	1.92	0.69
2:Cq:26:SER:O	2:Cq:28:GLY:N	2.25	0.69
2:Cr:26:SER:O	2:Cr:28:GLY:N	2.25	0.69
2:Cs:119:ALA:O	2:Cs:204:GLY:HA3	1.92	0.69
2:Ct:54:LEU:HD12	2:Ct:220:ALA:HB1	1.73	0.69
2:Cu:112:VAL:HG21	2:Cu:126:VAL:HG21	1.72	0.69
2:Cu:119:ALA:O	2:Cu:204:GLY:HA3	1.92	0.69
2:Cv:112:VAL:HG21	2:Cv:126:VAL:HG21	1.72	0.69
3:D4:19:PRO:HG3	4:F4:17:ASN:HD21	1.56	0.69
3:D7:117:LYS:HB3	3:D7:119:LYS:CE	2.20	0.69
3:DK:19:PRO:HG3	4:FK:17:ASN:HD21	1.56	0.69
3:DN:19:PRO:HG3	4:FN:17:ASN:HD21	1.56	0.69
3:Dp:117:LYS:HB3	3:Dp:119:LYS:CE	2.20	0.69
3:Dr:116:THR:CG2	3:Dr:191:LEU:HD21	2.21	0.69
3:EC:116:THR:CG2	3:EC:191:LEU:HD21	2.21	0.69
1:A0:104:VAL:HG22	1:A0:197:LEU:CD2	2.22	0.69
1:A2:76:THR:HB	1:A2:220:CYS:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:104:VAL:HG22	1:A5:197:LEU:CD2	2.22	0.69
1:A6:76:THR:HB	1:A6:220:CYS:HB2	1.74	0.69
1:A8:76:THR:HB	1:A8:220:CYS:HB2	1.74	0.69
1:A9:88:PHE:HA	1:A9:207:CYS:HA	1.74	0.69
1:AA:239:PHE:CD1	3:DA:170:TYR:HD2	2.10	0.69
1:AC:88:PHE:HA	1:AC:207:CYS:HA	1.74	0.69
1:AC:186:TRP:CZ2	1:AC:188:PRO:HA	2.27	0.69
1:AD:88:PHE:HA	1:AD:207:CYS:HA	1.74	0.69
1:AG:43:LEU:N	1:AG:43:LEU:HD23	2.08	0.69
1:AH:43:LEU:N	1:AH:43:LEU:HD23	2.07	0.69
1:AI:104:VAL:HG22	1:AI:197:LEU:CD2	2.22	0.69
1:AK:88:PHE:HA	1:AK:207:CYS:HA	1.74	0.69
1:AM:88:PHE:HA	1:AM:207:CYS:HA	1.75	0.69
1:AM:239:PHE:CD1	3:DM:170:TYR:HD2	2.10	0.69
1:AN:76:THR:HB	1:AN:220:CYS:HB2	1.74	0.69
1:AN:104:VAL:HG22	1:AN:197:LEU:CD2	2.22	0.69
1:AN:239:PHE:CD1	3:DN:170:TYR:HD2	2.10	0.69
1:AO:186:TRP:CZ2	1:AO:188:PRO:HA	2.27	0.69
1:AQ:43:LEU:N	1:AQ:43:LEU:HD23	2.07	0.69
1:AS:186:TRP:CZ2	1:AS:188:PRO:HA	2.27	0.69
1:AT:101:PHE:HD2	1:AT:143:VAL:HG11	1.56	0.69
1:AT:239:PHE:CD1	3:DU:170:TYR:HD2	2.10	0.69
1:AU:239:PHE:CD1	3:DV:170:TYR:HD2	2.10	0.69
1:Ab:88:PHE:HA	1:Ab:207:CYS:HA	1.74	0.69
1:Ac:76:THR:HB	1:Ac:220:CYS:HB2	1.74	0.69
1:Ac:186:TRP:CZ2	1:Ac:188:PRO:HA	2.27	0.69
1:Ac:239:PHE:CD1	3:De:170:TYR:HD2	2.10	0.69
1:Ad:43:LEU:HD23	1:Ad:43:LEU:N	2.07	0.69
1:Ae:186:TRP:CZ2	1:Ae:188:PRO:HA	2.27	0.69
1:Ai:88:PHE:HA	1:Ai:207:CYS:HA	1.74	0.69
1:Al:101:PHE:HD2	1:Al:143:VAL:HG11	1.56	0.69
1:BF:186:TRP:CZ2	1:BF:188:PRO:HA	2.27	0.69
2:CA:115:ASN:C	3:DW:119:LYS:HZ3	2.00	0.69
2:CB:208:THR:OG1	2:CB:210:PRO:HD3	1.92	0.69
2:CG:26:SER:O	2:CG:28:GLY:N	2.25	0.69
2:CQ:208:THR:OG1	2:CQ:210:PRO:HD3	1.92	0.69
2:CS:26:SER:O	2:CS:28:GLY:N	2.25	0.69
2:CT:26:SER:O	2:CT:28:GLY:N	2.25	0.69
2:CU:26:SER:O	2:CU:28:GLY:N	2.25	0.69
2:CW:26:SER:O	2:CW:28:GLY:N	2.25	0.69
2:Ce:115:ASN:C	3:DC:119:LYS:HZ3	2.00	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cg:26:SER:O	2:Cg:28:GLY:N	2.25	0.69
2:Ch:26:SER:O	2:Ch:28:GLY:N	2.25	0.69
2:Ch:54:LEU:HD12	2:Ch:220:ALA:HB1	1.74	0.69
2:Cl:26:SER:O	2:Cl:28:GLY:N	2.25	0.69
3:D1:116:THR:CG2	3:D1:191:LEU:HD21	2.21	0.69
3:D8:116:THR:CG2	3:D8:191:LEU:HD21	2.21	0.69
3:DA:42:ASN:ND2	3:DA:44:ILE:H	1.90	0.69
3:DC:19:PRO:HG3	4:FC:17:ASN:HD21	1.56	0.69
3:DF:116:THR:CG2	3:DF:191:LEU:HD21	2.21	0.69
3:DL:42:ASN:ND2	3:DL:44:ILE:H	1.90	0.69
3:DU:116:THR:CG2	3:DU:191:LEU:HD21	2.21	0.69
3:Df:19:PRO:HG3	4:Ff:17:ASN:HD21	1.56	0.69
3:Dq:19:PRO:HG3	4:Fq:17:ASN:HD21	1.56	0.69
3:Dq:42:ASN:ND2	3:Dq:44:ILE:H	1.90	0.69
1:A1:88:PHE:HA	1:A1:207:CYS:HA	1.74	0.69
1:A6:43:LEU:N	1:A6:43:LEU:HD23	2.07	0.69
1:A8:82:LEU:HD11	1:A8:211:TYR:CD2	2.26	0.69
1:A9:186:TRP:CZ2	1:A9:188:PRO:HA	2.27	0.69
1:AB:101:PHE:HD2	1:AB:143:VAL:HG11	1.56	0.69
1:AB:186:TRP:CZ2	1:AB:188:PRO:HA	2.27	0.69
1:AE:88:PHE:HA	1:AE:207:CYS:HA	1.74	0.69
1:AG:186:TRP:CZ2	1:AG:188:PRO:HA	2.27	0.69
1:AI:88:PHE:HA	1:AI:207:CYS:HA	1.74	0.69
1:AJ:104:VAL:HG22	1:AJ:197:LEU:CD2	2.22	0.69
1:AL:104:VAL:HG22	1:AL:197:LEU:CD2	2.22	0.69
1:AP:88:PHE:HA	1:AP:207:CYS:HA	1.75	0.69
1:AQ:101:PHE:HD2	1:AQ:143:VAL:HG11	1.56	0.69
1:AT:104:VAL:HG22	1:AT:197:LEU:CD2	2.22	0.69
1:Ab:239:PHE:CD1	3:Dd:170:TYR:HD2	2.10	0.69
1:Ah:76:THR:HB	1:Ah:220:CYS:HB2	1.74	0.69
1:Ai:101:PHE:HD2	1:Ai:143:VAL:HG11	1.56	0.69
1:Ai:186:TRP:CZ2	1:Ai:188:PRO:HA	2.27	0.69
1:Aj:76:THR:HB	1:Aj:220:CYS:HB2	1.74	0.69
1:Ak:88:PHE:HA	1:Ak:207:CYS:HA	1.75	0.69
1:An:88:PHE:HA	1:An:207:CYS:HA	1.74	0.69
1:BA:88:PHE:HA	1:BA:207:CYS:HA	1.74	0.69
1:BA:239:PHE:CD1	3:Dp:170:TYR:HD2	2.10	0.69
1:BC:43:LEU:N	1:BC:43:LEU:HD23	2.07	0.69
1:BG:76:THR:HB	1:BG:220:CYS:HB2	1.74	0.69
1:BG:101:PHE:HD2	1:BG:143:VAL:HG11	1.56	0.69
1:BI:239:PHE:CD1	3:EE:170:TYR:HD2	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:13:ARG:HG3	2:C1:29:SER:O	1.91	0.69
2:CE:26:SER:O	2:CE:28:GLY:N	2.25	0.69
2:CE:208:THR:OG1	2:CE:210:PRO:HD3	1.92	0.69
2:CI:13:ARG:HG3	2:CI:29:SER:O	1.91	0.69
2:CI:26:SER:O	2:CI:28:GLY:N	2.25	0.69
2:CK:119:ALA:O	2:CK:204:GLY:HA3	1.92	0.69
2:CL:54:LEU:HD12	2:CL:220:ALA:HB1	1.74	0.69
2:CN:119:ALA:O	2:CN:204:GLY:HA3	1.92	0.69
2:CQ:54:LEU:HD12	2:CQ:220:ALA:HB1	1.73	0.69
2:CU:119:ALA:O	2:CU:204:GLY:HA3	1.92	0.69
2:CX:119:ALA:O	2:CX:204:GLY:HA3	1.92	0.69
2:CX:208:THR:OG1	2:CX:210:PRO:HD3	1.92	0.69
2:Cb:13:ARG:HG3	2:Cb:29:SER:O	1.91	0.69
2:Cd:119:ALA:O	2:Cd:204:GLY:HA3	1.92	0.69
2:Ce:26:SER:O	2:Ce:28:GLY:N	2.25	0.69
2:Cg:208:THR:OG1	2:Cg:210:PRO:HD3	1.92	0.69
2:Co:54:LEU:HD12	2:Co:220:ALA:HB1	1.74	0.69
2:Co:119:ALA:O	2:Co:204:GLY:HA3	1.92	0.69
2:Co:208:THR:OG1	2:Co:210:PRO:HD3	1.92	0.69
2:Cr:13:ARG:HG3	2:Cr:29:SER:O	1.91	0.69
2:Cr:54:LEU:HD12	2:Cr:220:ALA:HB1	1.74	0.69
2:Cr:208:THR:OG1	2:Cr:210:PRO:HD3	1.92	0.69
2:Cx:208:THR:OG1	2:Cx:210:PRO:HD3	1.92	0.69
3:DF:42:ASN:ND2	3:DF:44:ILE:H	1.90	0.69
3:DJ:116:THR:CG2	3:DJ:191:LEU:HD21	2.21	0.69
3:DR:117:LYS:HB3	3:DR:119:LYS:CE	2.20	0.69
3:Da:19:PRO:HG3	4:Fa:17:ASN:HD21	1.56	0.69
3:Df:42:ASN:ND2	3:Df:44:ILE:H	1.90	0.69
3:Di:42:ASN:ND2	3:Di:44:ILE:H	1.90	0.69
3:EE:117:LYS:HB3	3:EE:119:LYS:CE	2.20	0.69
1:A1:76:THR:HB	1:A1:220:CYS:HB2	1.75	0.69
1:A2:104:VAL:HG22	1:A2:197:LEU:CD2	2.22	0.69
1:AF:239:PHE:CD1	3:DF:170:TYR:HD2	2.10	0.69
1:AG:76:THR:HB	1:AG:220:CYS:HB2	1.74	0.69
1:AG:88:PHE:HA	1:AG:207:CYS:HA	1.74	0.69
1:AL:101:PHE:HD2	1:AL:143:VAL:HG11	1.56	0.69
1:AO:43:LEU:HD23	1:AO:43:LEU:N	2.08	0.69
1:AY:186:TRP:CZ2	1:AY:188:PRO:HA	2.27	0.69
1:Ab:186:TRP:CZ2	1:Ab:188:PRO:HA	2.27	0.69
1:BH:104:VAL:HG22	1:BH:197:LEU:CD2	2.22	0.69
2:C2:26:SER:O	2:C2:28:GLY:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:26:SER:O	2:C8:28:GLY:N	2.25	0.69
2:CC:13:ARG:HG3	2:CC:29:SER:O	1.91	0.69
2:CC:26:SER:O	2:CC:28:GLY:N	2.25	0.69
2:CF:119:ALA:O	2:CF:204:GLY:HA3	1.92	0.69
2:CG:119:ALA:O	2:CG:204:GLY:HA3	1.92	0.69
2:CO:119:ALA:O	2:CO:204:GLY:HA3	1.92	0.69
2:CR:13:ARG:HG3	2:CR:29:SER:O	1.91	0.69
2:Cb:54:LEU:HD12	2:Cb:220:ALA:HB1	1.74	0.69
2:Cl:119:ALA:O	2:Cl:204:GLY:HA3	1.92	0.69
2:Co:13:ARG:HG3	2:Co:29:SER:O	1.91	0.69
2:Ct:26:SER:O	2:Ct:28:GLY:N	2.25	0.69
2:Cv:208:THR:OG1	2:Cv:210:PRO:HD3	1.92	0.69
3:DV:117:LYS:HB3	3:DV:119:LYS:CE	2.20	0.69
3:Db:116:THR:CG2	3:Db:191:LEU:HD21	2.21	0.69
1:A2:43:LEU:N	1:A2:43:LEU:HD23	2.07	0.69
1:A3:88:PHE:HA	1:A3:207:CYS:HA	1.75	0.69
1:A3:104:VAL:HG22	1:A3:197:LEU:CD2	2.22	0.69
1:A5:43:LEU:N	1:A5:43:LEU:HD23	2.08	0.69
1:A6:101:PHE:HD2	1:A6:143:VAL:HG11	1.56	0.69
1:AA:43:LEU:N	1:AA:43:LEU:HD23	2.07	0.69
1:AI:43:LEU:N	1:AI:43:LEU:HD23	2.07	0.69
1:AK:43:LEU:N	1:AK:43:LEU:HD23	2.07	0.69
1:AM:104:VAL:HG22	1:AM:197:LEU:CD2	2.22	0.69
1:AN:43:LEU:HD23	1:AN:43:LEU:N	2.07	0.69
1:AO:82:LEU:HD11	1:AO:211:TYR:CD2	2.26	0.69
1:AO:239:PHE:CD1	3:DO:170:TYR:HD2	2.10	0.69
1:AS:239:PHE:CD1	3:DT:170:TYR:HD2	2.10	0.69
1:AU:104:VAL:HG22	1:AU:197:LEU:CD2	2.22	0.69
1:AV:104:VAL:HG22	1:AV:197:LEU:CD2	2.22	0.69
1:AX:186:TRP:CZ2	1:AX:188:PRO:HA	2.27	0.69
1:Ac:43:LEU:N	1:Ac:43:LEU:HD23	2.07	0.69
1:Ad:239:PHE:CD1	3:Df:170:TYR:HD2	2.10	0.69
1:Ae:88:PHE:HA	1:Ae:207:CYS:HA	1.74	0.69
1:Af:239:PHE:CD1	3:Dh:170:TYR:HD2	2.10	0.69
1:Ag:104:VAL:HG22	1:Ag:197:LEU:CD2	2.22	0.69
1:Ai:104:VAL:HG22	1:Ai:197:LEU:CD2	2.22	0.69
1:Ak:101:PHE:HD2	1:Ak:143:VAL:HG11	1.56	0.69
1:Al:88:PHE:HA	1:Al:207:CYS:HA	1.75	0.69
1:Am:88:PHE:HA	1:Am:207:CYS:HA	1.75	0.69
1:Am:104:VAL:HG22	1:Am:197:LEU:CD2	2.22	0.69
1:BB:186:TRP:CZ2	1:BB:188:PRO:HA	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:88:PHE:HA	1:BD:207:CYS:HA	1.75	0.69
1:BH:76:THR:HB	1:BH:220:CYS:HB2	1.74	0.69
2:CJ:115:ASN:C	3:DA:119:LYS:HZ3	2.01	0.69
2:CJ:208:THR:OG1	2:CJ:210:PRO:HD3	1.92	0.69
2:CY:208:THR:OG1	2:CY:210:PRO:HD3	1.92	0.69
2:Ca:26:SER:O	2:Ca:28:GLY:N	2.25	0.69
2:Cc:26:SER:O	2:Cc:28:GLY:N	2.25	0.69
2:Cf:26:SER:O	2:Cf:28:GLY:N	2.25	0.69
2:Cg:112:VAL:HG21	2:Cg:126:VAL:HG21	1.72	0.69
2:Cq:119:ALA:O	2:Cq:204:GLY:HA3	1.92	0.69
3:D1:42:ASN:ND2	3:D1:44:ILE:H	1.90	0.69
3:D9:42:ASN:ND2	3:D9:44:ILE:H	1.90	0.69
3:DJ:117:LYS:HB3	3:DJ:119:LYS:CE	2.20	0.69
3:DM:116:THR:CG2	3:DM:191:LEU:HD21	2.21	0.69
3:DR:42:ASN:ND2	3:DR:44:ILE:H	1.90	0.69
3:DX:116:THR:CG2	3:DX:191:LEU:HD21	2.21	0.69
3:De:42:ASN:ND2	3:De:44:ILE:H	1.90	0.69
3:Dm:116:THR:CG2	3:Dm:191:LEU:HD21	2.21	0.69
3:Dp:19:PRO:HG3	4:Fp:17:ASN:HD21	1.56	0.69
3:Dp:42:ASN:ND2	3:Dp:44:ILE:H	1.90	0.69
3:EA:42:ASN:ND2	3:EA:44:ILE:H	1.90	0.69
1:A4:76:THR:HB	1:A4:220:CYS:HB2	1.74	0.69
1:A4:186:TRP:CZ2	1:A4:188:PRO:HA	2.27	0.69
1:A7:88:PHE:HA	1:A7:207:CYS:HA	1.74	0.69
1:A7:104:VAL:HG22	1:A7:197:LEU:CD2	2.22	0.69
1:AC:101:PHE:HD2	1:AC:143:VAL:HG11	1.56	0.69
1:AE:104:VAL:HG22	1:AE:197:LEU:CD2	2.22	0.69
1:AI:239:PHE:CD1	3:DI:170:TYR:HD2	2.10	0.69
1:AO:88:PHE:HA	1:AO:207:CYS:HA	1.74	0.69
1:AP:43:LEU:N	1:AP:43:LEU:HD23	2.08	0.69
1:AR:43:LEU:N	1:AR:43:LEU:HD23	2.07	0.69
1:AT:43:LEU:N	1:AT:43:LEU:HD23	2.07	0.69
1:AW:186:TRP:CZ2	1:AW:188:PRO:HA	2.27	0.69
1:AZ:239:PHE:CD1	3:D0:170:TYR:HD2	2.10	0.69
1:Aa:104:VAL:HG22	1:Aa:197:LEU:CD2	2.22	0.69
1:Ad:88:PHE:HA	1:Ad:207:CYS:HA	1.74	0.69
1:Ae:82:LEU:HD11	1:Ae:211:TYR:CD2	2.26	0.69
1:Ah:186:TRP:CZ2	1:Ah:188:PRO:HA	2.27	0.69
1:Aj:104:VAL:HG22	1:Aj:197:LEU:CD2	2.22	0.69
1:Ak:239:PHE:CD1	3:Dm:170:TYR:HD2	2.10	0.69
1:An:43:LEU:N	1:An:43:LEU:HD23	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:76:THR:HB	1:Ao:220:CYS:HB2	1.74	0.69
1:BE:186:TRP:CZ2	1:BE:188:PRO:HA	2.27	0.69
1:BI:88:PHE:HA	1:BI:207:CYS:HA	1.74	0.69
2:C2:208:THR:OG1	2:C2:210:PRO:HD3	1.92	0.69
2:C3:208:THR:OG1	2:C3:210:PRO:HD3	1.92	0.69
2:C6:13:ARG:HG3	2:C6:29:SER:O	1.91	0.69
2:CC:119:ALA:O	2:CC:204:GLY:HA3	1.92	0.69
2:CF:208:THR:OG1	2:CF:210:PRO:HD3	1.92	0.69
2:CP:26:SER:O	2:CP:28:GLY:N	2.25	0.69
2:CP:208:THR:OG1	2:CP:210:PRO:HD3	1.92	0.69
2:CZ:26:SER:O	2:CZ:28:GLY:N	2.25	0.69
2:Cf:212:THR:HG21	3:DV:188:LEU:HD22	1.75	0.69
2:Cg:13:ARG:HG3	2:Cg:29:SER:O	1.91	0.69
2:Cn:26:SER:O	2:Cn:28:GLY:N	2.25	0.69
2:Cu:26:SER:O	2:Cu:28:GLY:N	2.25	0.69
2:Cv:119:ALA:O	2:Cv:204:GLY:HA3	1.92	0.69
2:Cw:208:THR:OG1	2:Cw:210:PRO:HD3	1.92	0.69
3:D8:42:ASN:ND2	3:D8:44:ILE:H	1.90	0.69
3:Dc:116:THR:CG2	3:Dc:191:LEU:HD21	2.21	0.69
3:Dn:42:ASN:ND2	3:Dn:44:ILE:H	1.90	0.69
1:A0:43:LEU:N	1:A0:43:LEU:HD23	2.07	0.69
1:A0:113:THR:HB	1:A1:240:PRO:O	1.93	0.69
1:AB:43:LEU:N	1:AB:43:LEU:HD23	2.08	0.69
1:AF:88:PHE:HA	1:AF:207:CYS:HA	1.75	0.69
1:AH:104:VAL:HG22	1:AH:197:LEU:CD2	2.22	0.69
1:AO:76:THR:HB	1:AO:220:CYS:HB2	1.74	0.69
1:AP:104:VAL:HG22	1:AP:197:LEU:CD2	2.22	0.69
1:AQ:186:TRP:CZ2	1:AQ:188:PRO:HA	2.27	0.69
1:AR:104:VAL:HG22	1:AR:197:LEU:CD2	2.22	0.69
1:AT:76:THR:HB	1:AT:220:CYS:HB2	1.75	0.69
1:AT:82:LEU:HD11	1:AT:211:TYR:CD2	2.26	0.69
1:AU:43:LEU:N	1:AU:43:LEU:HD23	2.07	0.69
1:AU:186:TRP:CZ2	1:AU:188:PRO:HA	2.27	0.69
1:AV:43:LEU:N	1:AV:43:LEU:HD23	2.08	0.69
1:AW:104:VAL:HG22	1:AW:197:LEU:CD2	2.22	0.69
1:AW:239:PHE:CD1	3:DX:170:TYR:HD2	2.10	0.69
1:AX:239:PHE:CD1	3:DY:170:TYR:HD2	2.10	0.69
1:AY:104:VAL:HG22	1:AY:197:LEU:CD2	2.22	0.69
1:Ab:43:LEU:N	1:Ab:43:LEU:HD23	2.07	0.69
1:Ad:186:TRP:CZ2	1:Ad:188:PRO:HA	2.27	0.69
1:Af:104:VAL:HG22	1:Af:197:LEU:CD2	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:43:LEU:N	1:Ah:43:LEU:HD23	2.08	0.69
1:Al:43:LEU:N	1:Al:43:LEU:HD23	2.07	0.69
1:An:104:VAL:HG22	1:An:197:LEU:CD2	2.22	0.69
1:Ao:186:TRP:CZ2	1:Ao:188:PRO:HA	2.27	0.69
1:BA:76:THR:HB	1:BA:220:CYS:HB2	1.74	0.69
1:BA:88:PHE:CE2	1:BA:146:ILE:HD13	2.28	0.69
1:BB:88:PHE:HA	1:BB:207:CYS:HA	1.74	0.69
1:BB:104:VAL:HG22	1:BB:197:LEU:CD2	2.22	0.69
1:BH:88:PHE:HA	1:BH:207:CYS:HA	1.75	0.69
2:C5:54:LEU:HD12	2:C5:220:ALA:HB1	1.73	0.69
2:C6:212:THR:HG21	3:DE:188:LEU:HD22	1.75	0.69
2:C9:26:SER:O	2:C9:28:GLY:N	2.25	0.69
2:CA:212:THR:HG21	3:DW:188:LEU:HD22	1.75	0.69
2:CD:26:SER:O	2:CD:28:GLY:N	2.25	0.69
2:CK:212:THR:HG21	3:D6:188:LEU:HD22	1.75	0.69
2:CM:119:ALA:O	2:CM:204:GLY:HA3	1.92	0.69
2:CQ:26:SER:O	2:CQ:28:GLY:N	2.25	0.69
2:CT:54:LEU:HD12	2:CT:220:ALA:HB1	1.73	0.69
2:CY:54:LEU:HD12	2:CY:220:ALA:HB1	1.74	0.69
2:Cb:212:THR:HG21	3:DT:188:LEU:HD22	1.75	0.69
2:Cj:26:SER:O	2:Cj:28:GLY:N	2.25	0.69
2:Cs:26:SER:O	2:Cs:28:GLY:N	2.25	0.69
2:Ct:115:ASN:C	3:DH:119:LYS:HZ3	2.01	0.69
2:Ct:212:THR:HG21	3:DH:188:LEU:HD22	1.75	0.69
3:D1:117:LYS:HB3	3:D1:119:LYS:CE	2.20	0.69
3:D2:42:ASN:ND2	3:D2:44:ILE:H	1.90	0.69
3:D7:42:ASN:ND2	3:D7:44:ILE:H	1.90	0.69
3:DN:42:ASN:ND2	3:DN:44:ILE:H	1.90	0.69
3:DY:117:LYS:HB3	3:DY:119:LYS:CE	2.20	0.69
3:EC:19:PRO:HG3	4:Fv:17:ASN:HD21	1.56	0.69
1:A0:76:THR:HB	1:A0:220:CYS:HB2	1.75	0.69
1:A1:82:LEU:HD11	1:A1:211:TYR:CD2	2.26	0.69
1:A2:88:PHE:HA	1:A2:207:CYS:HA	1.75	0.69
1:A4:104:VAL:HG22	1:A4:197:LEU:CD2	2.22	0.69
1:A5:88:PHE:CE2	1:A5:146:ILE:HD13	2.28	0.69
1:A5:88:PHE:HE2	1:A5:146:ILE:HG21	1.58	0.69
1:A7:43:LEU:N	1:A7:43:LEU:HD23	2.08	0.69
1:A7:88:PHE:HE2	1:A7:146:ILE:HG21	1.58	0.69
1:A7:186:TRP:CZ2	1:A7:188:PRO:HA	2.27	0.69
1:A7:239:PHE:CD1	3:D8:170:TYR:HD2	2.10	0.69
1:A8:43:LEU:HD23	1:A8:43:LEU:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:239:PHE:CD1	3:D9:170:TYR:HD2	2.10	0.69
1:AD:88:PHE:CE2	1:AD:146:ILE:HD13	2.28	0.69
1:AE:43:LEU:N	1:AE:43:LEU:HD23	2.08	0.69
1:AE:101:PHE:HD2	1:AE:143:VAL:HG11	1.56	0.69
1:AE:186:TRP:CZ2	1:AE:188:PRO:HA	2.27	0.69
1:AF:43:LEU:N	1:AF:43:LEU:HD23	2.07	0.69
1:AF:88:PHE:CE2	1:AF:146:ILE:HD13	2.28	0.69
1:AJ:88:PHE:HA	1:AJ:207:CYS:HA	1.74	0.69
1:AL:76:THR:HB	1:AL:220:CYS:HB2	1.74	0.69
1:AL:239:PHE:CD1	3:DL:170:TYR:HD2	2.10	0.69
1:AQ:104:VAL:HG22	1:AQ:197:LEU:CD2	2.22	0.69
1:AR:113:THR:HB	1:Ao:240:PRO:O	1.93	0.69
1:AS:88:PHE:HA	1:AS:207:CYS:HA	1.75	0.69
1:AW:43:LEU:N	1:AW:43:LEU:HD23	2.07	0.69
1:AX:88:PHE:HA	1:AX:207:CYS:HA	1.74	0.69
1:AX:104:VAL:HG22	1:AX:197:LEU:CD2	2.22	0.69
1:AY:76:THR:HB	1:AY:220:CYS:HB2	1.74	0.69
1:AZ:76:THR:HB	1:AZ:220:CYS:HB2	1.74	0.69
1:Aa:88:PHE:HE2	1:Aa:146:ILE:HG21	1.58	0.69
1:Aa:240:PRO:O	1:An:113:THR:HB	1.93	0.69
1:Ac:82:LEU:HD11	1:Ac:211:TYR:CD2	2.26	0.69
1:Ad:88:PHE:CE2	1:Ad:146:ILE:HD13	2.28	0.69
1:Ad:104:VAL:HG22	1:Ad:197:LEU:CD2	2.22	0.69
1:Af:88:PHE:HA	1:Af:207:CYS:HA	1.74	0.69
1:Af:113:THR:HB	1:Ag:240:PRO:O	1.93	0.69
1:Af:164:TRP:HZ2	1:Af:187:LEU:HD21	1.58	0.69
1:Ag:76:THR:HB	1:Ag:220:CYS:HB2	1.74	0.69
1:Ag:112:PRO:HD2	3:De:220:VAL:CG1	2.18	0.69
1:Ag:186:TRP:CZ2	1:Ag:188:PRO:HA	2.27	0.69
1:Ai:43:LEU:N	1:Ai:43:LEU:HD23	2.07	0.69
1:Aj:43:LEU:N	1:Aj:43:LEU:HD23	2.07	0.69
1:Aj:88:PHE:HE2	1:Aj:146:ILE:HG21	1.58	0.69
1:Al:104:VAL:HG22	1:Al:197:LEU:CD2	2.22	0.69
1:Am:239:PHE:CD1	3:Do:170:TYR:HD2	2.10	0.69
1:BB:88:PHE:CE2	1:BB:146:ILE:HD13	2.28	0.69
1:BB:88:PHE:HE2	1:BB:146:ILE:HG21	1.58	0.69
1:BC:186:TRP:CZ2	1:BC:188:PRO:HA	2.27	0.69
1:BD:239:PHE:CD1	3:Ds:170:TYR:HD2	2.10	0.69
1:BE:76:THR:HB	1:BE:220:CYS:HB2	1.74	0.69
1:BE:82:LEU:HD11	1:BE:211:TYR:CD2	2.26	0.69
1:BE:101:PHE:HD2	1:BE:143:VAL:HG11	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:104:VAL:HG22	1:BE:197:LEU:CD2	2.22	0.69
1:BF:88:PHE:HA	1:BF:207:CYS:HA	1.74	0.69
1:BG:43:LEU:N	1:BG:43:LEU:HD23	2.08	0.69
1:BG:239:PHE:CD1	3:EC:170:TYR:HD2	2.10	0.69
1:BH:88:PHE:CE2	1:BH:146:ILE:HD13	2.28	0.69
1:BH:239:PHE:CD1	3:ED:170:TYR:HD2	2.10	0.69
2:C3:152:TYR:CZ	3:D3:60:PRO:HD3	2.28	0.69
2:C5:26:SER:O	2:C5:28:GLY:N	2.25	0.69
2:C7:208:THR:OG1	2:C7:210:PRO:HD3	1.92	0.69
2:C8:208:THR:OG1	2:C8:210:PRO:HD3	1.92	0.69
2:C9:208:THR:OG1	2:C9:210:PRO:HD3	1.92	0.69
2:CA:208:THR:OG1	2:CA:210:PRO:HD3	1.92	0.69
2:CD:223:ASN:H	2:CD:223:ASN:HD22	1.41	0.69
2:CG:54:LEU:HD12	2:CG:220:ALA:HB1	1.74	0.69
2:CJ:223:ASN:H	2:CJ:223:ASN:HD22	1.41	0.69
2:CM:115:ASN:ND2	3:Di:190:ALA:O	2.26	0.69
2:CN:208:THR:OG1	2:CN:210:PRO:HD3	1.92	0.69
2:CP:115:ASN:ND2	3:D1:190:ALA:O	2.26	0.69
2:CP:152:TYR:CZ	3:DP:60:PRO:HD3	2.28	0.69
2:CS:212:THR:HG21	3:Dc:188:LEU:HD22	1.75	0.69
2:CU:208:THR:OG1	2:CU:210:PRO:HD3	1.92	0.69
2:CW:208:THR:OG1	2:CW:210:PRO:HD3	1.92	0.69
2:CY:26:SER:O	2:CY:28:GLY:N	2.25	0.69
2:CZ:212:THR:HG21	3:Dq:188:LEU:HD22	1.75	0.69
2:Ca:212:THR:HG21	3:DL:188:LEU:HD22	1.75	0.69
2:Cb:26:SER:O	2:Cb:28:GLY:N	2.25	0.69
2:Cb:119:ALA:O	2:Cb:204:GLY:HA3	1.92	0.69
2:Cc:119:ALA:O	2:Cc:204:GLY:HA3	1.92	0.69
2:Cc:208:THR:OG1	2:Cc:210:PRO:HD3	1.92	0.69
2:Cc:212:THR:HG21	3:DC:188:LEU:HD22	1.75	0.69
2:Cf:208:THR:OG1	2:Cf:210:PRO:HD3	1.92	0.69
2:Cf:223:ASN:H	2:Cf:223:ASN:HD22	1.41	0.69
2:Ch:119:ALA:O	2:Ch:204:GLY:HA3	1.92	0.69
2:Cl:152:TYR:CZ	3:Dl:60:PRO:HD3	2.28	0.69
2:Cm:26:SER:O	2:Cm:28:GLY:N	2.25	0.69
2:Cq:115:ASN:ND2	3:DY:190:ALA:O	2.26	0.69
2:Cs:208:THR:OG1	2:Cs:210:PRO:HD3	1.92	0.69
2:Cw:26:SER:O	2:Cw:28:GLY:N	2.25	0.69
3:D0:42:ASN:ND2	3:D0:44:ILE:H	1.90	0.69
3:DE:116:THR:CG2	3:DE:191:LEU:HD21	2.21	0.69
3:DI:42:ASN:ND2	3:DI:44:ILE:H	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DO:42:ASN:ND2	3:DO:44:ILE:H	1.90	0.69
3:DR:99:GLN:OE1	3:DR:217:ARG:HD2	1.93	0.69
3:DS:116:THR:CG2	3:DS:191:LEU:HD21	2.21	0.69
3:Db:19:PRO:HG3	4:Fb:17:ASN:HD21	1.56	0.69
3:Db:42:ASN:ND2	3:Db:44:ILE:H	1.90	0.69
3:Dd:42:ASN:ND2	3:Dd:44:ILE:H	1.90	0.69
3:Dh:42:ASN:ND2	3:Dh:44:ILE:H	1.90	0.69
3:Di:119:LYS:HG2	3:Di:147:ASP:OD2	1.93	0.69
3:Dj:19:PRO:HG3	4:Fj:17:ASN:HD21	1.56	0.69
3:Dp:116:THR:CG2	3:Dp:191:LEU:HD21	2.21	0.69
3:EC:42:ASN:ND2	3:EC:44:ILE:H	1.90	0.69
1:A1:104:VAL:HG22	1:A1:197:LEU:CD2	2.22	0.69
1:A2:186:TRP:CZ2	1:A2:188:PRO:HA	2.27	0.69
1:A4:88:PHE:HE2	1:A4:146:ILE:HG21	1.58	0.69
1:A6:88:PHE:CE2	1:A6:146:ILE:HD13	2.28	0.69
1:AB:88:PHE:HE2	1:AB:146:ILE:HG21	1.58	0.69
1:AB:113:THR:HB	1:AC:240:PRO:O	1.93	0.69
1:AC:104:VAL:HG22	1:AC:197:LEU:CD2	2.22	0.69
1:AH:103:TRP:HB2	1:AH:198:THR:CG2	2.23	0.69
1:AL:43:LEU:N	1:AL:43:LEU:HD23	2.07	0.69
1:AL:88:PHE:HA	1:AL:207:CYS:HA	1.74	0.69
1:AN:186:TRP:CZ2	1:AN:188:PRO:HA	2.27	0.69
1:AP:240:PRO:O	1:AS:113:THR:HB	1.93	0.69
1:AQ:239:PHE:CD1	3:DQ:170:TYR:HD2	2.10	0.69
1:AS:43:LEU:N	1:AS:43:LEU:HD23	2.07	0.69
1:AS:240:PRO:O	1:Ao:113:THR:HB	1.93	0.69
1:AT:164:TRP:HZ2	1:AT:187:LEU:HD21	1.58	0.69
1:AU:103:TRP:HB2	1:AU:198:THR:CG2	2.23	0.69
1:AV:88:PHE:CE2	1:AV:146:ILE:HD13	2.28	0.69
1:AV:239:PHE:CD1	3:DW:170:TYR:HD2	2.10	0.69
1:AY:88:PHE:CE2	1:AY:146:ILE:HD13	2.28	0.69
1:AY:112:PRO:HD2	3:D0:220:VAL:CG1	2.18	0.69
1:AY:113:THR:HB	1:AZ:240:PRO:O	1.93	0.69
1:AZ:88:PHE:CE2	1:AZ:146:ILE:HD13	2.28	0.69
1:Aa:113:THR:HB	1:Ab:240:PRO:O	1.93	0.69
1:Ac:164:TRP:HZ2	1:Ac:187:LEU:HD21	1.58	0.69
1:Ad:103:TRP:HB2	1:Ad:198:THR:CG2	2.23	0.69
1:Ad:113:THR:HB	1:Ae:240:PRO:O	1.93	0.69
1:Ae:164:TRP:HZ2	1:Ae:187:LEU:HD21	1.58	0.69
1:Ag:88:PHE:HA	1:Ag:207:CYS:HA	1.75	0.69
1:Ah:101:PHE:HD2	1:Ah:143:VAL:HG11	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:113:THR:HB	1:Aj:240:PRO:O	1.93	0.69
1:Ak:88:PHE:CE2	1:Ak:146:ILE:HD13	2.28	0.69
1:BA:43:LEU:N	1:BA:43:LEU:HD23	2.07	0.69
1:BB:164:TRP:HZ2	1:BB:187:LEU:HD21	1.58	0.69
1:BB:239:PHE:CD1	3:Dq:170:TYR:HD2	2.10	0.69
1:BC:101:PHE:HD2	1:BC:143:VAL:HG11	1.56	0.69
1:BG:88:PHE:CE2	1:BG:146:ILE:HD13	2.28	0.69
1:BH:103:TRP:HB2	1:BH:198:THR:CG2	2.23	0.69
1:BI:43:LEU:N	1:BI:43:LEU:HD23	2.07	0.69
1:BI:186:TRP:CZ2	1:BI:188:PRO:HA	2.27	0.69
2:C4:26:SER:O	2:C4:28:GLY:N	2.25	0.69
2:C5:115:ASN:ND2	3:DG:190:ALA:O	2.26	0.69
2:C5:152:TYR:CZ	3:D5:60:PRO:HD3	2.28	0.69
2:C6:208:THR:OG1	2:C6:210:PRO:HD3	1.92	0.69
2:C7:54:LEU:HD12	2:C7:220:ALA:HB1	1.74	0.69
2:C7:115:ASN:ND2	3:Dm:190:ALA:O	2.26	0.69
2:C9:115:ASN:ND2	3:DI:190:ALA:O	2.26	0.69
2:CA:54:LEU:HD12	2:CA:220:ALA:HB1	1.73	0.69
2:CC:223:ASN:H	2:CC:223:ASN:HD22	1.41	0.69
2:CD:54:LEU:HD12	2:CD:220:ALA:HB1	1.74	0.69
2:CF:58:LEU:HD13	2:CF:94:PHE:CA	2.23	0.69
2:CH:119:ALA:O	2:CH:204:GLY:HA3	1.92	0.69
2:CK:26:SER:O	2:CK:28:GLY:N	2.25	0.69
2:CK:54:LEU:HD12	2:CK:220:ALA:HB1	1.74	0.69
2:CL:152:TYR:CZ	3:DL:60:PRO:HD3	2.28	0.69
2:CL:208:THR:OG1	2:CL:210:PRO:HD3	1.92	0.69
2:CO:26:SER:O	2:CO:28:GLY:N	2.25	0.69
2:CO:208:THR:OG1	2:CO:210:PRO:HD3	1.92	0.69
2:CS:152:TYR:CZ	3:DS:60:PRO:HD3	2.28	0.69
2:CT:212:THR:HG21	3:DK:188:LEU:HD22	1.75	0.69
2:CU:152:TYR:CZ	3:DU:60:PRO:HD3	2.28	0.69
2:CW:119:ALA:O	2:CW:204:GLY:HA3	1.92	0.69
2:CX:152:TYR:CZ	3:DX:60:PRO:HD3	2.28	0.69
2:Ca:58:LEU:HD13	2:Ca:94:PHE:CA	2.23	0.69
2:Ca:119:ALA:O	2:Ca:204:GLY:HA3	1.92	0.69
2:Cc:54:LEU:HD12	2:Cc:220:ALA:HB1	1.74	0.69
2:Ce:58:LEU:HD13	2:Ce:94:PHE:CA	2.23	0.69
2:Cq:54:LEU:HD12	2:Cq:220:ALA:HB1	1.73	0.69
2:Ct:13:ARG:HG3	2:Ct:29:SER:O	1.91	0.69
2:Ct:115:ASN:ND2	3:DH:190:ALA:O	2.26	0.69
2:Ct:119:ALA:O	2:Ct:204:GLY:HA3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ct:208:THR:OG1	2:Ct:210:PRO:HD3	1.92	0.69
2:Cv:152:TYR:CZ	3:EC:60:PRO:HD3	2.28	0.69
3:D4:42:ASN:ND2	3:D4:44:ILE:H	1.90	0.69
3:D8:119:LYS:HG2	3:D8:147:ASP:OD2	1.93	0.69
3:D9:119:LYS:HG2	3:D9:147:ASP:OD2	1.93	0.69
3:DD:19:PRO:HG3	4:FD:17:ASN:HD21	1.56	0.69
3:DG:116:THR:CG2	3:DG:191:LEU:HD21	2.21	0.69
3:DG:119:LYS:HG2	3:DG:147:ASP:OD2	1.93	0.69
3:Dh:116:THR:CG2	3:Dh:191:LEU:HD21	2.21	0.69
3:Dk:42:ASN:ND2	3:Dk:44:ILE:H	1.90	0.69
3:Dn:99:GLN:OE1	3:Dn:217:ARG:HD2	1.93	0.69
1:A3:88:PHE:HE2	1:A3:146:ILE:HG21	1.58	0.69
1:A3:240:PRO:O	1:A7:113:THR:HB	1.93	0.69
1:A6:88:PHE:HE2	1:A6:146:ILE:HG21	1.58	0.69
1:AA:82:LEU:HD11	1:AA:211:TYR:CD2	2.26	0.69
1:AA:88:PHE:CE2	1:AA:146:ILE:HD13	2.28	0.69
1:AE:88:PHE:CE2	1:AE:146:ILE:HD13	2.28	0.69
1:AE:88:PHE:HE2	1:AE:146:ILE:HG21	1.58	0.69
1:AG:101:PHE:HD2	1:AG:143:VAL:HG11	1.56	0.69
1:AH:88:PHE:CE2	1:AH:146:ILE:HD13	2.28	0.69
1:AH:113:THR:HB	1:AI:240:PRO:O	1.93	0.69
1:AH:186:TRP:CZ2	1:AH:188:PRO:HA	2.27	0.69
1:AJ:186:TRP:CZ2	1:AJ:188:PRO:HA	2.27	0.69
1:AK:104:VAL:HG22	1:AK:197:LEU:CD2	2.22	0.69
1:AK:240:PRO:O	1:AO:113:THR:HB	1.93	0.69
1:AM:43:LEU:N	1:AM:43:LEU:HD23	2.07	0.69
1:AM:103:TRP:HB2	1:AM:198:THR:CG2	2.23	0.69
1:AM:186:TRP:CZ2	1:AM:188:PRO:HA	2.27	0.69
1:AO:88:PHE:CE2	1:AO:146:ILE:HD13	2.28	0.69
1:AO:103:TRP:HB2	1:AO:198:THR:CG2	2.23	0.69
1:AO:104:VAL:HG22	1:AO:197:LEU:CD2	2.22	0.69
1:AS:88:PHE:CE2	1:AS:146:ILE:HD13	2.28	0.69
1:AW:103:TRP:HB2	1:AW:198:THR:CG2	2.23	0.69
1:AY:88:PHE:HE2	1:AY:146:ILE:HG21	1.58	0.69
1:Aa:88:PHE:CE2	1:Aa:146:ILE:HD13	2.28	0.69
1:Aa:101:PHE:HD2	1:Aa:143:VAL:HG11	1.56	0.69
1:Ab:82:LEU:HD11	1:Ab:211:TYR:CD2	2.26	0.69
1:Ac:113:THR:HB	1:Ad:240:PRO:O	1.93	0.69
1:Ag:103:TRP:HB2	1:Ag:198:THR:CG2	2.23	0.69
1:Ag:239:PHE:CD1	3:Di:170:TYR:HD2	2.10	0.69
1:Aj:103:TRP:HB2	1:Aj:198:THR:CG2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:101:PHE:HD2	1:Ao:143:VAL:HG11	1.56	0.69
1:BB:76:THR:HB	1:BB:220:CYS:HB2	1.74	0.69
1:BC:88:PHE:CE2	1:BC:146:ILE:HD13	2.28	0.69
1:BD:88:PHE:CE2	1:BD:146:ILE:HD13	2.28	0.69
1:BE:43:LEU:HD23	1:BE:43:LEU:N	2.07	0.69
1:BE:88:PHE:HA	1:BE:207:CYS:HA	1.74	0.69
1:BF:113:THR:HB	1:BG:240:PRO:O	1.93	0.69
1:BH:186:TRP:CZ2	1:BH:188:PRO:HA	2.27	0.69
2:C0:115:ASN:ND2	3:DQ:190:ALA:O	2.26	0.69
2:C0:119:ALA:O	2:C0:204:GLY:HA3	1.92	0.69
2:C2:152:TYR:CZ	3:D2:60:PRO:HD3	2.28	0.69
2:C5:212:THR:HG21	3:DG:188:LEU:HD22	1.75	0.69
2:C6:58:LEU:HD13	2:C6:94:PHE:CA	2.23	0.69
2:C7:119:ALA:O	2:C7:204:GLY:HA3	1.92	0.69
2:CE:54:LEU:HD12	2:CE:220:ALA:HB1	1.74	0.69
2:CF:115:ASN:ND2	3:D6:190:ALA:O	2.26	0.69
2:CF:152:TYR:CZ	3:DF:60:PRO:HD3	2.28	0.69
2:CI:115:ASN:ND2	3:DX:190:ALA:O	2.26	0.69
2:CJ:152:TYR:CZ	3:DJ:60:PRO:HD3	2.28	0.69
2:CL:119:ALA:O	2:CL:204:GLY:HA3	1.92	0.69
2:CO:115:ASN:ND2	3:DP:190:ALA:O	2.26	0.69
2:CS:115:ASN:ND2	3:Dc:190:ALA:O	2.26	0.69
2:CV:26:SER:O	2:CV:28:GLY:N	2.25	0.69
2:CX:26:SER:O	2:CX:28:GLY:N	2.25	0.69
2:Cf:54:LEU:HD12	2:Cf:220:ALA:HB1	1.74	0.69
2:Cg:119:ALA:O	2:Cg:204:GLY:HA3	1.92	0.69
2:Ch:152:TYR:CZ	3:Dh:60:PRO:HD3	2.28	0.69
2:Ci:119:ALA:O	2:Ci:204:GLY:HA3	1.92	0.69
2:Cn:58:LEU:HD13	2:Cn:94:PHE:CA	2.23	0.69
2:Co:26:SER:O	2:Co:28:GLY:N	2.25	0.69
2:Cr:152:TYR:CZ	3:Dr:60:PRO:HD3	2.28	0.69
2:Ct:58:LEU:HD13	2:Ct:94:PHE:CA	2.23	0.69
2:Cu:58:LEU:HD13	2:Cu:94:PHE:CA	2.23	0.69
2:Cw:115:ASN:ND2	3:DS:190:ALA:O	2.26	0.69
2:Cx:26:SER:O	2:Cx:28:GLY:N	2.25	0.69
2:Cx:119:ALA:O	2:Cx:204:GLY:HA3	1.92	0.69
3:D1:119:LYS:HG2	3:D1:147:ASP:OD2	1.93	0.69
3:D3:116:THR:CG2	3:D3:191:LEU:HD21	2.21	0.69
3:D7:116:THR:CG2	3:D7:191:LEU:HD21	2.21	0.69
3:DE:119:LYS:HG2	3:DE:147:ASP:OD2	1.93	0.69
3:DM:42:ASN:ND2	3:DM:44:ILE:H	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:119:LYS:HG2	3:DT:147:ASP:OD2	1.93	0.69
3:DV:42:ASN:ND2	3:DV:44:ILE:H	1.90	0.69
3:DX:19:PRO:HG3	4:FX:17:ASN:HD21	1.56	0.69
3:Da:119:LYS:HG2	3:Da:147:ASP:OD2	1.93	0.69
3:Db:119:LYS:HG2	3:Db:147:ASP:OD2	1.93	0.69
3:De:116:THR:CG2	3:De:191:LEU:HD21	2.21	0.69
3:Df:99:GLN:OE1	3:Df:217:ARG:HD2	1.93	0.69
3:Dg:119:LYS:HG2	3:Dg:147:ASP:OD2	1.93	0.69
3:Dh:99:GLN:OE1	3:Dh:217:ARG:HD2	1.93	0.69
3:Dr:42:ASN:ND2	3:Dr:44:ILE:H	1.90	0.69
3:EA:19:PRO:HG3	4:Ft:17:ASN:HD21	1.56	0.69
3:EA:99:GLN:OE1	3:EA:217:ARG:HD2	1.93	0.69
3:ED:99:GLN:OE1	3:ED:217:ARG:HD2	1.93	0.69
3:ED:119:LYS:HG2	3:ED:147:ASP:OD2	1.93	0.69
1:A2:82:LEU:HD11	1:A2:211:TYR:CD2	2.26	0.68
1:A4:103:TRP:HB2	1:A4:198:THR:CG2	2.23	0.68
1:A5:113:THR:HB	1:A6:240:PRO:O	1.93	0.68
1:A8:88:PHE:HA	1:A8:207:CYS:HA	1.74	0.68
1:A8:186:TRP:CZ2	1:A8:188:PRO:HA	2.27	0.68
1:A9:88:PHE:CE2	1:A9:146:ILE:HD13	2.28	0.68
1:AB:76:THR:HB	1:AB:220:CYS:HB2	1.74	0.68
1:AB:88:PHE:HA	1:AB:207:CYS:HA	1.74	0.68
1:AB:239:PHE:CD1	3:DB:170:TYR:HD2	2.10	0.68
1:AF:76:THR:HB	1:AF:220:CYS:HB2	1.74	0.68
1:AF:82:LEU:HD11	1:AF:211:TYR:CD2	2.26	0.68
1:AG:88:PHE:CE2	1:AG:146:ILE:HD13	2.28	0.68
1:AG:104:VAL:HG22	1:AG:197:LEU:CD2	2.22	0.68
1:AI:88:PHE:CE2	1:AI:146:ILE:HD13	2.28	0.68
1:AM:113:THR:HB	1:AN:240:PRO:O	1.93	0.68
1:AP:103:TRP:HB2	1:AP:198:THR:CG2	2.23	0.68
1:AR:88:PHE:HA	1:AR:207:CYS:HA	1.75	0.68
1:AR:239:PHE:CD1	3:DR:170:TYR:HD2	2.10	0.68
1:AS:76:THR:HB	1:AS:220:CYS:HB2	1.74	0.68
1:AS:104:VAL:HG22	1:AS:197:LEU:CD2	2.22	0.68
1:AT:240:PRO:O	1:AX:113:THR:HB	1.93	0.68
1:AU:76:THR:HB	1:AU:220:CYS:HB2	1.74	0.68
1:AU:88:PHE:HA	1:AU:207:CYS:HA	1.74	0.68
1:AW:88:PHE:CE2	1:AW:146:ILE:HD13	2.28	0.68
1:AW:88:PHE:HA	1:AW:207:CYS:HA	1.74	0.68
1:AX:88:PHE:CE2	1:AX:146:ILE:HD13	2.28	0.68
1:Ac:103:TRP:HB2	1:Ac:198:THR:CG2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ac:240:PRO:O	1:Ag:113:THR:HB	1.93	0.68
1:Ai:76:THR:HB	1:Ai:220:CYS:HB2	1.74	0.68
1:Ai:103:TRP:HB2	1:Ai:198:THR:CG2	2.23	0.68
1:Al:88:PHE:CE2	1:Al:146:ILE:HD13	2.28	0.68
1:BC:104:VAL:HG22	1:BC:197:LEU:CD2	2.22	0.68
1:BD:43:LEU:HD23	1:BD:43:LEU:N	2.07	0.68
1:BD:164:TRP:HZ2	1:BD:187:LEU:HD21	1.58	0.68
1:BF:103:TRP:HB2	1:BF:198:THR:CG2	2.23	0.68
1:BH:113:THR:HB	1:BI:240:PRO:O	1.93	0.68
1:BI:88:PHE:HE2	1:BI:146:ILE:HG21	1.58	0.68
2:C1:26:SER:O	2:C1:28:GLY:N	2.26	0.68
2:C2:58:LEU:HD13	2:C2:94:PHE:CA	2.23	0.68
2:C2:115:ASN:ND2	3:Dh:190:ALA:O	2.26	0.68
2:C5:208:THR:OG1	2:C5:210:PRO:HD3	1.92	0.68
2:C6:20:GLY:HA2	2:C6:56:PRO:O	1.93	0.68
2:C6:54:LEU:HD12	2:C6:220:ALA:HB1	1.74	0.68
2:C6:223:ASN:H	2:C6:223:ASN:HD22	1.41	0.68
2:C7:26:SER:O	2:C7:28:GLY:N	2.25	0.68
2:C8:152:TYR:CZ	3:D8:60:PRO:HD3	2.28	0.68
2:C9:58:LEU:HD13	2:C9:94:PHE:CA	2.23	0.68
2:C9:119:ALA:O	2:C9:204:GLY:HA3	1.92	0.68
2:C9:152:TYR:CZ	3:D9:60:PRO:HD3	2.28	0.68
2:CB:115:ASN:ND2	3:Df:190:ALA:O	2.26	0.68
2:CB:212:THR:HG21	3:Df:188:LEU:HD22	1.75	0.68
2:CC:54:LEU:HD12	2:CC:220:ALA:HB1	1.74	0.68
2:CD:20:GLY:HA2	2:CD:56:PRO:O	1.94	0.68
2:CH:58:LEU:HD13	2:CH:94:PHE:CA	2.23	0.68
2:CL:26:SER:O	2:CL:28:GLY:N	2.25	0.68
2:CN:152:TYR:CZ	3:DN:60:PRO:HD3	2.28	0.68
2:CQ:20:GLY:HA2	2:CQ:56:PRO:O	1.94	0.68
2:CQ:152:TYR:CZ	3:DQ:60:PRO:HD3	2.28	0.68
2:CU:54:LEU:HD12	2:CU:220:ALA:HB1	1.74	0.68
2:Ca:115:ASN:ND2	3:DL:190:ALA:O	2.26	0.68
2:Cb:58:LEU:HD13	2:Cb:94:PHE:CA	2.23	0.68
2:Cc:115:ASN:ND2	3:ED:190:ALA:O	2.26	0.68
2:Cd:58:LEU:HD13	2:Cd:94:PHE:CA	2.23	0.68
2:Cf:58:LEU:HD13	2:Cf:94:PHE:CA	2.23	0.68
2:Cj:152:TYR:CZ	3:Dj:60:PRO:HD3	2.28	0.68
2:Ck:54:LEU:HD12	2:Ck:220:ALA:HB1	1.74	0.68
2:Ck:152:TYR:CZ	3:Dk:60:PRO:HD3	2.28	0.68
2:Ck:212:THR:HG21	3:Da:188:LEU:HD22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cm:208:THR:OG1	2:Cm:210:PRO:HD3	1.92	0.68
2:Cm:223:ASN:H	2:Cm:223:ASN:HD22	1.41	0.68
2:Cr:212:THR:HG21	3:DI:188:LEU:HD22	1.75	0.68
2:Cv:54:LEU:HD12	2:Cv:220:ALA:HB1	1.73	0.68
2:Cx:58:LEU:HD13	2:Cx:94:PHE:CA	2.23	0.68
3:D0:116:THR:CG2	3:D0:191:LEU:HD21	2.21	0.68
3:D2:99:GLN:OE1	3:D2:217:ARG:HD2	1.93	0.68
3:D2:116:THR:CG2	3:D2:191:LEU:HD21	2.21	0.68
3:D9:99:GLN:OE1	3:D9:217:ARG:HD2	1.93	0.68
3:DF:119:LYS:HG2	3:DF:147:ASP:OD2	1.93	0.68
3:DW:42:ASN:ND2	3:DW:44:ILE:H	1.90	0.68
3:De:119:LYS:HG2	3:De:147:ASP:OD2	1.93	0.68
3:Dm:42:ASN:ND2	3:Dm:44:ILE:H	1.90	0.68
3:Dp:119:LYS:HG2	3:Dp:147:ASP:OD2	1.93	0.68
3:Dq:116:THR:CG2	3:Dq:191:LEU:HD21	2.21	0.68
3:EA:116:THR:CG2	3:EA:191:LEU:HD21	2.21	0.68
1:A0:88:PHE:HA	1:A0:207:CYS:HA	1.75	0.68
1:A0:239:PHE:CD1	3:D1:170:TYR:HD2	2.10	0.68
1:A2:103:TRP:HB2	1:A2:198:THR:CG2	2.23	0.68
1:A4:88:PHE:CE2	1:A4:146:ILE:HD13	2.28	0.68
1:A5:101:PHE:HD2	1:A5:143:VAL:HG11	1.56	0.68
1:A9:82:LEU:HD11	1:A9:211:TYR:CD2	2.26	0.68
1:AA:76:THR:HB	1:AA:220:CYS:HB2	1.74	0.68
1:AA:104:VAL:HG22	1:AA:197:LEU:CD2	2.22	0.68
1:AC:88:PHE:CE2	1:AC:146:ILE:HD13	2.28	0.68
1:AD:104:VAL:HG22	1:AD:197:LEU:CD2	2.22	0.68
1:AD:113:THR:HB	1:AE:240:PRO:O	1.93	0.68
1:AJ:88:PHE:CE2	1:AJ:146:ILE:HD13	2.28	0.68
1:AK:239:PHE:CD1	3:DK:170:TYR:HD2	2.10	0.68
1:AQ:103:TRP:HB2	1:AQ:198:THR:CG2	2.23	0.68
1:AV:76:THR:HB	1:AV:220:CYS:HB2	1.74	0.68
1:Aa:43:LEU:N	1:Aa:43:LEU:HD23	2.08	0.68
1:Ag:88:PHE:CE2	1:Ag:146:ILE:HD13	2.28	0.68
1:Ak:186:TRP:CZ2	1:Ak:188:PRO:HA	2.27	0.68
1:Am:113:THR:HB	1:BA:240:PRO:O	1.93	0.68
1:BA:104:VAL:HG22	1:BA:197:LEU:CD2	2.22	0.68
1:BB:43:LEU:N	1:BB:43:LEU:HD23	2.07	0.68
1:BF:43:LEU:N	1:BF:43:LEU:HD23	2.08	0.68
1:BG:88:PHE:HE2	1:BG:146:ILE:HG21	1.58	0.68
2:C0:212:THR:HG21	3:DQ:188:LEU:HD22	1.75	0.68
2:C7:20:GLY:HA2	2:C7:56:PRO:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:212:THR:HG21	3:Dl:188:LEU:HD22	1.75	0.68
2:CB:58:LEU:HD13	2:CB:94:PHE:CA	2.23	0.68
2:CD:115:ASN:ND2	3:D7:190:ALA:O	2.26	0.68
2:CE:152:TYR:CZ	3:DE:60:PRO:HD3	2.28	0.68
2:CI:119:ALA:O	2:CI:204:GLY:HA3	1.92	0.68
2:CP:54:LEU:HD12	2:CP:220:ALA:HB1	1.74	0.68
2:CQ:223:ASN:H	2:CQ:223:ASN:HD22	1.41	0.68
2:CR:208:THR:OG1	2:CR:210:PRO:HD3	1.92	0.68
2:CV:115:ASN:ND2	3:DB:190:ALA:O	2.26	0.68
2:CX:58:LEU:HD13	2:CX:94:PHE:CA	2.23	0.68
2:CX:212:THR:HG21	3:Dr:188:LEU:HD22	1.75	0.68
2:CZ:54:LEU:HD12	2:CZ:220:ALA:HB1	1.74	0.68
2:Ca:208:THR:OG1	2:Ca:210:PRO:HD3	1.92	0.68
2:Cp:20:GLY:HA2	2:Cp:56:PRO:O	1.94	0.68
2:Cp:152:TYR:CZ	3:Dp:60:PRO:HD3	2.28	0.68
2:Cp:208:THR:OG1	2:Cp:210:PRO:HD3	1.92	0.68
2:Ct:152:TYR:CZ	3:EA:60:PRO:HD3	2.28	0.68
2:Cv:115:ASN:ND2	3:Dd:190:ALA:O	2.26	0.68
2:Cv:223:ASN:H	2:Cv:223:ASN:HD22	1.41	0.68
2:Cw:58:LEU:HD13	2:Cw:94:PHE:CA	2.23	0.68
3:D3:42:ASN:ND2	3:D3:44:ILE:H	1.90	0.68
3:D5:99:GLN:OE1	3:D5:217:ARG:HD2	1.93	0.68
3:D6:42:ASN:ND2	3:D6:44:ILE:H	1.90	0.68
3:D8:99:GLN:OE1	3:D8:217:ARG:HD2	1.93	0.68
3:DB:119:LYS:HG2	3:DB:147:ASP:OD2	1.93	0.68
3:DD:42:ASN:ND2	3:DD:44:ILE:H	1.90	0.68
3:DE:42:ASN:ND2	3:DE:44:ILE:H	1.90	0.68
3:DE:99:GLN:OE1	3:DE:217:ARG:HD2	1.93	0.68
3:DF:99:GLN:OE1	3:DF:217:ARG:HD2	1.93	0.68
3:DQ:42:ASN:ND2	3:DQ:44:ILE:H	1.90	0.68
3:DW:119:LYS:HG2	3:DW:147:ASP:OD2	1.93	0.68
3:DZ:99:GLN:OE1	3:DZ:217:ARG:HD2	1.93	0.68
3:Dh:119:LYS:HG2	3:Dh:147:ASP:OD2	1.93	0.68
3:Dp:99:GLN:OE1	3:Dp:217:ARG:HD2	1.93	0.68
3:EE:119:LYS:HG2	3:EE:147:ASP:OD2	1.93	0.68
1:A3:113:THR:HB	1:A4:240:PRO:O	1.93	0.68
1:A4:88:PHE:HA	1:A4:207:CYS:HA	1.74	0.68
1:A5:76:THR:HB	1:A5:220:CYS:HB2	1.74	0.68
1:A5:103:TRP:HB2	1:A5:198:THR:CG2	2.23	0.68
1:A6:113:THR:HB	1:A7:240:PRO:O	1.93	0.68
1:A8:88:PHE:HE2	1:A8:146:ILE:HG21	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:104:VAL:HG22	1:A9:197:LEU:CD2	2.22	0.68
1:AA:88:PHE:HA	1:AA:207:CYS:HA	1.74	0.68
1:AC:43:LEU:HD23	1:AC:43:LEU:N	2.07	0.68
1:AD:76:THR:HB	1:AD:220:CYS:HB2	1.74	0.68
1:AM:57:LEU:HD21	1:AM:195:ILE:HG12	1.76	0.68
1:AN:103:TRP:HB2	1:AN:198:THR:CG2	2.23	0.68
1:AP:88:PHE:CE2	1:AP:146:ILE:HD13	2.28	0.68
1:AP:113:THR:HB	1:AQ:240:PRO:O	1.93	0.68
1:AU:164:TRP:HZ2	1:AU:187:LEU:HD21	1.58	0.68
1:AV:88:PHE:HE2	1:AV:146:ILE:HG21	1.58	0.68
1:AW:82:LEU:HD11	1:AW:211:TYR:CD2	2.26	0.68
1:Ac:88:PHE:HE2	1:Ac:146:ILE:HG21	1.58	0.68
1:Ad:164:TRP:HZ2	1:Ad:187:LEU:HD21	1.58	0.68
1:Ai:57:LEU:HD21	1:Ai:195:ILE:HG12	1.76	0.68
1:Ai:88:PHE:HE2	1:Ai:146:ILE:HG21	1.58	0.68
1:An:88:PHE:HE2	1:An:146:ILE:HG21	1.58	0.68
1:An:103:TRP:HB2	1:An:198:THR:CG2	2.23	0.68
1:Ao:88:PHE:HE2	1:Ao:146:ILE:HG21	1.58	0.68
1:BD:76:THR:HB	1:BD:220:CYS:HB2	1.74	0.68
1:BE:113:THR:HB	1:BF:240:PRO:O	1.93	0.68
1:BF:82:LEU:HD11	1:BF:211:TYR:CD2	2.26	0.68
1:BF:88:PHE:CE2	1:BF:146:ILE:HD13	2.28	0.68
1:BF:164:TRP:HZ2	1:BF:187:LEU:HD21	1.58	0.68
1:BI:103:TRP:HB2	1:BI:198:THR:CG2	2.23	0.68
2:C0:26:SER:O	2:C0:28:GLY:N	2.25	0.68
2:C0:54:LEU:HD12	2:C0:220:ALA:HB1	1.74	0.68
2:C1:115:ASN:ND2	3:DO:190:ALA:O	2.26	0.68
2:C3:58:LEU:HD13	2:C3:94:PHE:CA	2.23	0.68
2:C3:119:ALA:O	2:C3:204:GLY:HA3	1.92	0.68
2:C6:119:ALA:O	2:C6:204:GLY:HA3	1.92	0.68
2:C9:223:ASN:H	2:C9:223:ASN:HD22	1.41	0.68
2:CA:152:TYR:CZ	3:DA:60:PRO:HD3	2.28	0.68
2:CD:58:LEU:HD13	2:CD:94:PHE:CA	2.23	0.68
2:CE:115:ASN:ND2	3:DF:190:ALA:O	2.26	0.68
2:CE:223:ASN:H	2:CE:223:ASN:HD22	1.41	0.68
2:CF:223:ASN:H	2:CF:223:ASN:HD22	1.41	0.68
2:CK:208:THR:OG1	2:CK:210:PRO:HD3	1.92	0.68
2:CL:115:ASN:ND2	3:Dk:190:ALA:O	2.26	0.68
2:CL:223:ASN:H	2:CL:223:ASN:HD22	1.41	0.68
2:CM:223:ASN:H	2:CM:223:ASN:HD22	1.41	0.68
2:CP:223:ASN:H	2:CP:223:ASN:HD22	1.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:58:LEU:HD13	2:CT:94:PHE:CA	2.23	0.68
2:CT:152:TYR:CZ	3:DT:60:PRO:HD3	2.28	0.68
2:CU:58:LEU:HD13	2:CU:94:PHE:CA	2.23	0.68
2:CW:115:ASN:ND2	3:DJ:190:ALA:O	2.26	0.68
2:CX:115:ASN:ND2	3:Dr:190:ALA:O	2.26	0.68
2:CX:223:ASN:H	2:CX:223:ASN:HD22	1.41	0.68
2:CY:20:GLY:HA2	2:CY:56:PRO:O	1.94	0.68
2:CY:115:ASN:ND2	3:DZ:190:ALA:O	2.26	0.68
2:CY:152:TYR:CZ	3:DY:60:PRO:HD3	2.28	0.68
2:Cb:115:ASN:ND2	3:DT:190:ALA:O	2.26	0.68
2:Cc:208:THR:OG1	2:Cc:210:PRO:HD3	1.92	0.68
2:Ck:119:ALA:O	2:Ck:204:GLY:HA3	1.92	0.68
2:Cl:58:LEU:HD13	2:Cl:94:PHE:CA	2.23	0.68
2:Cl:223:ASN:H	2:Cl:223:ASN:HD22	1.41	0.68
2:Cn:54:LEU:HD12	2:Cn:220:ALA:HB1	1.74	0.68
2:Cr:58:LEU:HD13	2:Cr:94:PHE:CA	2.23	0.68
2:Cr:115:ASN:ND2	3:DI:190:ALA:O	2.26	0.68
2:Ct:20:GLY:HA2	2:Ct:56:PRO:O	1.94	0.68
3:D1:99:GLN:OE1	3:D1:217:ARG:HD2	1.93	0.68
3:D3:119:LYS:HG2	3:D3:147:ASP:OD2	1.93	0.68
3:D7:119:LYS:HG2	3:D7:147:ASP:OD2	1.93	0.68
3:DA:119:LYS:HG2	3:DA:147:ASP:OD2	1.93	0.68
3:DB:116:THR:CG2	3:DB:191:LEU:HD21	2.21	0.68
3:DG:56:ILE:HG13	3:DG:74:PHE:CE1	2.29	0.68
3:DL:119:LYS:HG2	3:DL:147:ASP:OD2	1.93	0.68
3:DQ:116:THR:CG2	3:DQ:191:LEU:HD21	2.21	0.68
3:DU:119:LYS:HG2	3:DU:147:ASP:OD2	1.93	0.68
3:DV:119:LYS:HG2	3:DV:147:ASP:OD2	1.93	0.68
3:DY:42:ASN:ND2	3:DY:44:ILE:H	1.90	0.68
3:Da:116:THR:CG2	3:Da:191:LEU:HD21	2.21	0.68
3:Df:116:THR:CG2	3:Df:191:LEU:HD21	2.21	0.68
3:Ds:42:ASN:ND2	3:Ds:44:ILE:H	1.90	0.68
1:A2:101:PHE:HD2	1:A2:143:VAL:HG11	1.56	0.68
1:A4:43:LEU:N	1:A4:43:LEU:HD23	2.07	0.68
1:A8:104:VAL:HG22	1:A8:197:LEU:CD2	2.22	0.68
1:A9:43:LEU:HD23	1:A9:43:LEU:N	2.07	0.68
1:A9:103:TRP:HB2	1:A9:198:THR:CG2	2.23	0.68
1:AD:57:LEU:HD21	1:AD:195:ILE:HG12	1.76	0.68
1:AD:239:PHE:CD1	3:DD:170:TYR:HD2	2.10	0.68
1:AJ:101:PHE:HD2	1:AJ:143:VAL:HG11	1.56	0.68
1:AP:76:THR:HB	1:AP:220:CYS:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:164:TRP:HZ2	1:AQ:187:LEU:HD21	1.58	0.68
1:AR:88:PHE:CE2	1:AR:146:ILE:HD13	2.28	0.68
1:AS:103:TRP:HB2	1:AS:198:THR:CG2	2.23	0.68
1:AT:88:PHE:CE2	1:AT:146:ILE:HD13	2.28	0.68
1:AT:113:THR:HB	1:AU:240:PRO:O	1.93	0.68
1:AZ:82:LEU:HD11	1:AZ:211:TYR:CD2	2.26	0.68
1:Aa:57:LEU:HD21	1:Aa:195:ILE:HG12	1.76	0.68
1:Ad:76:THR:HB	1:Ad:220:CYS:HB2	1.75	0.68
1:Af:88:PHE:CE2	1:Af:146:ILE:HD13	2.28	0.68
1:Af:88:PHE:HE2	1:Af:146:ILE:HG21	1.58	0.68
1:Ah:113:THR:HB	1:Ai:240:PRO:O	1.93	0.68
1:Ak:76:THR:HB	1:Ak:220:CYS:HB2	1.74	0.68
1:Ak:82:LEU:HD11	1:Ak:211:TYR:CD2	2.26	0.68
1:Ak:113:THR:HB	1:Al:240:PRO:O	1.93	0.68
1:An:82:LEU:HD11	1:An:211:TYR:CD2	2.26	0.68
1:BC:113:THR:HB	1:BD:240:PRO:O	1.93	0.68
1:BE:103:TRP:HB2	1:BE:198:THR:CG2	2.23	0.68
1:BG:113:THR:HB	1:BH:240:PRO:O	1.93	0.68
2:C0:58:LEU:HD13	2:C0:94:PHE:CA	2.23	0.68
2:C1:58:LEU:HD13	2:C1:94:PHE:CA	2.23	0.68
2:C2:209:VAL:H	2:C2:210:PRO:CD	2.07	0.68
2:C4:152:TYR:CZ	3:D4:60:PRO:HD3	2.28	0.68
2:C4:208:THR:OG1	2:C4:210:PRO:HD3	1.92	0.68
2:C5:58:LEU:HD13	2:C5:94:PHE:CA	2.23	0.68
2:CA:58:LEU:HD13	2:CA:94:PHE:CA	2.23	0.68
2:CC:58:LEU:HD13	2:CC:94:PHE:CA	2.23	0.68
2:CC:115:ASN:ND2	3:Dn:190:ALA:O	2.26	0.68
2:CD:119:ALA:O	2:CD:204:GLY:HA3	1.92	0.68
2:CE:20:GLY:HA2	2:CE:56:PRO:O	1.94	0.68
2:CJ:212:THR:HG21	3:DA:188:LEU:HD22	1.75	0.68
2:CM:152:TYR:CZ	3:DM:60:PRO:HD3	2.28	0.68
2:CV:58:LEU:HD13	2:CV:94:PHE:CA	2.23	0.68
2:Cb:152:TYR:CZ	3:Db:60:PRO:HD3	2.28	0.68
2:Cc:58:LEU:HD13	2:Cc:94:PHE:CA	2.23	0.68
2:Ck:208:THR:OG1	2:Ck:210:PRO:HD3	1.92	0.68
2:Cv:209:VAL:H	2:Cv:210:PRO:CD	2.07	0.68
2:Cx:20:GLY:HA2	2:Cx:56:PRO:O	1.94	0.68
3:D0:56:ILE:HG13	3:D0:74:PHE:CE1	2.29	0.68
3:D5:119:LYS:HG2	3:D5:147:ASP:OD2	1.93	0.68
3:D7:99:GLN:OE1	3:D7:217:ARG:HD2	1.93	0.68
3:DD:119:LYS:HG2	3:DD:147:ASP:OD2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DE:56:ILE:HG13	3:DE:74:PHE:CE1	2.29	0.68
3:DJ:119:LYS:HG2	3:DJ:147:ASP:OD2	1.93	0.68
3:DR:119:LYS:HG2	3:DR:147:ASP:OD2	1.93	0.68
3:DZ:56:ILE:HG13	3:DZ:74:PHE:CE1	2.29	0.68
3:Dh:56:ILE:HG13	3:Dh:74:PHE:CE1	2.29	0.68
3:Di:99:GLN:OE1	3:Di:217:ARG:HD2	1.93	0.68
3:Dj:119:LYS:HG2	3:Dj:147:ASP:OD2	1.93	0.68
3:Dk:119:LYS:HG2	3:Dk:147:ASP:OD2	1.93	0.68
3:Dq:56:ILE:HG13	3:Dq:74:PHE:CE1	2.29	0.68
3:Ds:116:THR:CG2	3:Ds:191:LEU:HD21	2.21	0.68
1:A0:88:PHE:CE2	1:A0:146:ILE:HD13	2.28	0.68
1:A4:113:THR:HB	1:A5:240:PRO:O	1.93	0.68
1:A8:88:PHE:CE2	1:A8:146:ILE:HD13	2.28	0.68
1:AD:43:LEU:HD23	1:AD:43:LEU:N	2.07	0.68
1:AD:103:TRP:HB2	1:AD:198:THR:CG2	2.23	0.68
1:AE:239:PHE:CD1	3:DE:170:TYR:HD2	2.10	0.68
1:AN:88:PHE:CE2	1:AN:146:ILE:HD13	2.28	0.68
1:AN:113:THR:HB	1:AO:240:PRO:O	1.93	0.68
1:AO:88:PHE:HE2	1:AO:146:ILE:HG21	1.58	0.68
1:AP:57:LEU:HD21	1:AP:195:ILE:HG12	1.76	0.68
1:AS:57:LEU:HD21	1:AS:195:ILE:HG12	1.76	0.68
1:AU:83:GLU:HG2	1:AU:157:SER:HA	1.76	0.68
1:AV:88:PHE:HA	1:AV:207:CYS:HA	1.75	0.68
1:AW:76:THR:HB	1:AW:220:CYS:HB2	1.74	0.68
1:AW:113:THR:HB	1:AX:240:PRO:O	1.93	0.68
1:AY:103:TRP:HB2	1:AY:198:THR:CG2	2.23	0.68
1:AZ:103:TRP:HB2	1:AZ:198:THR:CG2	2.23	0.68
1:Ab:76:THR:HB	1:Ab:220:CYS:HB2	1.74	0.68
1:Ac:88:PHE:CE2	1:Ac:146:ILE:HD13	2.28	0.68
1:Ae:57:LEU:HD21	1:Ae:195:ILE:HG12	1.76	0.68
1:Ag:43:LEU:N	1:Ag:43:LEU:HD23	2.07	0.68
1:Ah:88:PHE:CE2	1:Ah:146:ILE:HD13	2.28	0.68
1:Ak:164:TRP:HZ2	1:Ak:187:LEU:HD21	1.58	0.68
1:Al:88:PHE:HE2	1:Al:146:ILE:HG21	1.58	0.68
1:BB:83:GLU:HG2	1:BB:157:SER:HA	1.76	0.68
1:BF:57:LEU:HD21	1:BF:195:ILE:HG12	1.76	0.68
1:BH:43:LEU:N	1:BH:43:LEU:HD23	2.08	0.68
1:BI:88:PHE:CE2	1:BI:146:ILE:HD13	2.28	0.68
2:C1:152:TYR:CZ	3:D1:60:PRO:HD3	2.28	0.68
2:C5:20:GLY:HA2	2:C5:56:PRO:O	1.94	0.68
2:C5:119:ALA:O	2:C5:204:GLY:HA3	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:58:LEU:HD13	2:C7:94:PHE:CA	2.23	0.68
2:C8:58:LEU:HD13	2:C8:94:PHE:CA	2.23	0.68
2:CC:208:THR:OG1	2:CC:210:PRO:HD3	1.92	0.68
2:CD:208:THR:OG1	2:CD:210:PRO:HD3	1.92	0.68
2:CD:212:THR:HG21	3:D7:188:LEU:HD22	1.75	0.68
2:CF:54:LEU:HD12	2:CF:220:ALA:HB1	1.74	0.68
2:CG:152:TYR:CZ	3:DG:60:PRO:HD3	2.28	0.68
2:CJ:26:SER:O	2:CJ:28:GLY:N	2.25	0.68
2:CK:152:TYR:CZ	3:DK:60:PRO:HD3	2.28	0.68
2:CM:54:LEU:HD12	2:CM:220:ALA:HB1	1.74	0.68
2:CN:58:LEU:HD13	2:CN:94:PHE:CA	2.23	0.68
2:CO:152:TYR:CZ	3:DO:60:PRO:HD3	2.28	0.68
2:CP:20:GLY:HA2	2:CP:56:PRO:O	1.94	0.68
2:CQ:115:ASN:C	3:Dp:119:LYS:HZ3	2.02	0.68
2:CR:212:THR:HG21	3:EE:188:LEU:HD22	1.75	0.68
2:CS:58:LEU:HD13	2:CS:94:PHE:CA	2.23	0.68
2:CV:119:ALA:O	2:CV:204:GLY:HA3	1.92	0.68
2:CW:58:LEU:HD13	2:CW:94:PHE:CA	2.23	0.68
2:CX:20:GLY:HA2	2:CX:56:PRO:O	1.94	0.68
2:CZ:20:GLY:HA2	2:CZ:56:PRO:O	1.94	0.68
2:Ca:152:TYR:CZ	3:Da:60:PRO:HD3	2.28	0.68
2:Cc:212:THR:HG21	3:ED:188:LEU:HD22	1.75	0.68
2:Ch:212:THR:HG21	3:DN:188:LEU:HD22	1.75	0.68
2:Ci:212:THR:HG21	3:Dj:188:LEU:HD22	1.75	0.68
2:Cj:119:ALA:O	2:Cj:204:GLY:HA3	1.92	0.68
2:Cj:223:ASN:H	2:Cj:223:ASN:HD22	1.41	0.68
2:Cm:20:GLY:HA2	2:Cm:56:PRO:O	1.94	0.68
2:Cr:119:ALA:O	2:Cr:204:GLY:HA3	1.92	0.68
2:Cw:20:GLY:HA2	2:Cw:56:PRO:O	1.94	0.68
3:D0:119:LYS:HG2	3:D0:147:ASP:OD2	1.93	0.68
3:D4:116:THR:CG2	3:D4:191:LEU:HD21	2.21	0.68
3:D5:42:ASN:ND2	3:D5:44:ILE:H	1.90	0.68
3:DA:117:LYS:HB3	3:DA:119:LYS:CE	2.20	0.68
3:DC:56:ILE:HG13	3:DC:74:PHE:CE1	2.29	0.68
3:DH:56:ILE:HG13	3:DH:74:PHE:CE1	2.29	0.68
3:DH:116:THR:CG2	3:DH:191:LEU:HD21	2.21	0.68
3:DH:119:LYS:HG2	3:DH:147:ASP:OD2	1.93	0.68
3:DI:56:ILE:HG13	3:DI:74:PHE:CE1	2.29	0.68
3:DI:119:LYS:HG2	3:DI:147:ASP:OD2	1.93	0.68
3:DO:119:LYS:HG2	3:DO:147:ASP:OD2	1.93	0.68
3:DU:56:ILE:HG13	3:DU:74:PHE:CE1	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:99:GLN:OE1	3:DV:217:ARG:HD2	1.93	0.68
3:DW:117:LYS:HB3	3:DW:119:LYS:CE	2.20	0.68
3:Df:56:ILE:HG13	3:Df:74:PHE:CE1	2.29	0.68
3:Dk:56:ILE:HG13	3:Dk:74:PHE:CE1	2.29	0.68
3:Dl:42:ASN:ND2	3:Dl:44:ILE:H	1.90	0.68
3:Dp:56:ILE:HG13	3:Dp:74:PHE:CE1	2.29	0.68
3:Dq:119:LYS:HG2	3:Dq:147:ASP:OD2	1.93	0.68
3:EB:42:ASN:ND2	3:EB:44:ILE:H	1.90	0.68
3:EC:56:ILE:HG13	3:EC:74:PHE:CE1	2.29	0.68
1:A1:43:LEU:N	1:A1:43:LEU:HD23	2.07	0.68
1:A1:83:GLU:HG2	1:A1:157:SER:HA	1.76	0.68
1:A2:88:PHE:CE2	1:A2:146:ILE:HD13	2.28	0.68
1:A3:43:LEU:N	1:A3:43:LEU:HD23	2.07	0.68
1:A3:88:PHE:CE2	1:A3:146:ILE:HD13	2.28	0.68
1:A3:103:TRP:HB2	1:A3:198:THR:CG2	2.23	0.68
1:A4:101:PHE:HD2	1:A4:143:VAL:HG11	1.56	0.68
1:A7:103:TRP:HB2	1:A7:198:THR:CG2	2.23	0.68
1:AE:76:THR:HB	1:AE:220:CYS:HB2	1.74	0.68
1:AM:76:THR:HB	1:AM:220:CYS:HB2	1.75	0.68
1:AO:83:GLU:HG2	1:AO:157:SER:HA	1.76	0.68
1:AP:88:PHE:HE2	1:AP:146:ILE:HG21	1.58	0.68
1:AX:57:LEU:HD21	1:AX:195:ILE:HG12	1.76	0.68
1:AY:43:LEU:HD23	1:AY:43:LEU:N	2.07	0.68
1:AZ:83:GLU:HG2	1:AZ:157:SER:HA	1.76	0.68
1:Af:43:LEU:N	1:Af:43:LEU:HD23	2.08	0.68
1:Am:103:TRP:HB2	1:Am:198:THR:CG2	2.23	0.68
1:An:239:PHE:CD1	3:Db:170:TYR:HD2	2.10	0.68
1:BC:76:THR:HB	1:BC:220:CYS:HB2	1.74	0.68
1:BC:103:TRP:HB2	1:BC:198:THR:CG2	2.24	0.68
2:C3:115:ASN:ND2	3:DU:190:ALA:O	2.26	0.68
2:C4:20:GLY:HA2	2:C4:56:PRO:O	1.94	0.68
2:CC:152:TYR:CZ	3:DC:60:PRO:HD3	2.28	0.68
2:CD:152:TYR:CZ	3:DD:60:PRO:HD3	2.28	0.68
2:CG:58:LEU:HD13	2:CG:94:PHE:CA	2.23	0.68
2:CL:20:GLY:HA2	2:CL:56:PRO:O	1.94	0.68
2:CO:58:LEU:HD13	2:CO:94:PHE:CA	2.23	0.68
2:CO:223:ASN:H	2:CO:223:ASN:HD22	1.41	0.68
2:CS:20:GLY:HA2	2:CS:56:PRO:O	1.94	0.68
2:CS:208:THR:OG1	2:CS:210:PRO:HD3	1.92	0.68
2:CT:115:ASN:ND2	3:DK:190:ALA:O	2.26	0.68
2:CT:208:THR:OG1	2:CT:210:PRO:HD3	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CU:115:ASN:ND2	3:Dg:190:ALA:O	2.26	0.68
2:Cb:223:ASN:H	2:Cb:223:ASN:HD22	1.41	0.68
2:Cd:20:GLY:HA2	2:Cd:56:PRO:O	1.94	0.68
2:Ce:152:TYR:CZ	3:De:60:PRO:HD3	2.28	0.68
2:Cf:20:GLY:HA2	2:Cf:56:PRO:O	1.94	0.68
2:Ch:209:VAL:HG12	2:Ch:209:VAL:O	1.94	0.68
2:Ci:208:THR:OG1	2:Ci:210:PRO:HD3	1.92	0.68
2:Cl:115:ASN:ND2	3:D8:190:ALA:O	2.26	0.68
2:Cm:115:ASN:ND2	3:DD:190:ALA:O	2.26	0.68
2:Cp:115:ASN:ND2	3:D0:190:ALA:O	2.26	0.68
2:Cp:212:THR:HG21	3:D0:188:LEU:HD22	1.75	0.68
2:Cq:209:VAL:O	2:Cq:209:VAL:HG12	1.94	0.68
2:Cs:58:LEU:HD13	2:Cs:94:PHE:CA	2.23	0.68
3:DC:42:ASN:ND2	3:DC:44:ILE:H	1.90	0.68
3:DK:56:ILE:HG13	3:DK:74:PHE:CE1	2.29	0.68
3:DX:119:LYS:HG2	3:DX:147:ASP:OD2	1.93	0.68
3:DZ:42:ASN:ND2	3:DZ:44:ILE:H	1.90	0.68
3:Dc:56:ILE:HG13	3:Dc:74:PHE:CE1	2.29	0.68
3:Dg:99:GLN:OE1	3:Dg:217:ARG:HD2	1.93	0.68
3:Dh:19:PRO:O	3:Dh:20:ASP:HB2	1.94	0.68
3:Dr:99:GLN:OE1	3:Dr:217:ARG:HD2	1.93	0.68
3:EB:56:ILE:HG13	3:EB:74:PHE:CE1	2.29	0.68
1:A1:103:TRP:HB2	1:A1:198:THR:CG2	2.23	0.68
1:A1:113:THR:HB	1:A2:240:PRO:O	1.93	0.68
1:A3:83:GLU:HG2	1:A3:157:SER:HA	1.76	0.68
1:A5:83:GLU:HG2	1:A5:157:SER:HA	1.76	0.68
1:A7:83:GLU:HG2	1:A7:157:SER:HA	1.76	0.68
1:A8:83:GLU:HG2	1:A8:157:SER:HA	1.76	0.68
1:AF:83:GLU:HG2	1:AF:157:SER:HA	1.76	0.68
1:AG:83:GLU:HG2	1:AG:157:SER:HA	1.76	0.68
1:AG:113:THR:HB	1:AH:240:PRO:O	1.93	0.68
1:AH:83:GLU:HG2	1:AH:157:SER:HA	1.76	0.68
1:AI:57:LEU:HD21	1:AI:195:ILE:HG12	1.76	0.68
1:AJ:43:LEU:N	1:AJ:43:LEU:HD23	2.08	0.68
1:AK:88:PHE:HE2	1:AK:146:ILE:HG21	1.58	0.68
1:AL:113:THR:HB	1:AM:240:PRO:O	1.93	0.68
1:AQ:83:GLU:HG2	1:AQ:157:SER:HA	1.76	0.68
1:AR:76:THR:HB	1:AR:220:CYS:HB2	1.74	0.68
1:AR:103:TRP:HB2	1:AR:198:THR:CG2	2.23	0.68
1:Aa:76:THR:HB	1:Aa:220:CYS:HB2	1.74	0.68
1:Ab:57:LEU:HD21	1:Ab:195:ILE:HG12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:88:PHE:CE2	1:Ab:146:ILE:HD13	2.28	0.68
1:Af:103:TRP:HB2	1:Af:198:THR:CG2	2.23	0.68
1:Ah:88:PHE:HA	1:Ah:207:CYS:HA	1.74	0.68
1:Ah:240:PRO:O	1:Al:113:THR:HB	1.93	0.68
1:Ai:88:PHE:CE2	1:Ai:146:ILE:HD13	2.28	0.68
1:Am:43:LEU:N	1:Am:43:LEU:HD23	2.08	0.68
1:Am:88:PHE:CE2	1:Am:146:ILE:HD13	2.28	0.68
1:An:76:THR:HB	1:An:220:CYS:HB2	1.74	0.68
1:BA:57:LEU:HD21	1:BA:195:ILE:HG12	1.76	0.68
1:BA:103:TRP:HB2	1:BA:198:THR:CG2	2.23	0.68
1:BG:103:TRP:HB2	1:BG:198:THR:CG2	2.23	0.68
1:BH:83:GLU:HG2	1:BH:157:SER:HA	1.76	0.68
2:C3:20:GLY:HA2	2:C3:56:PRO:O	1.94	0.68
2:C3:26:SER:O	2:C3:28:GLY:N	2.25	0.68
2:C4:115:ASN:ND2	3:EC:190:ALA:O	2.26	0.68
2:C5:223:ASN:H	2:C5:223:ASN:HD22	1.41	0.68
2:C6:26:SER:O	2:C6:28:GLY:N	2.25	0.68
2:C7:209:VAL:O	2:C7:209:VAL:HG12	1.94	0.68
2:CB:152:TYR:CZ	3:DB:60:PRO:HD3	2.28	0.68
2:CG:115:ASN:ND2	3:EB:190:ALA:O	2.26	0.68
2:CG:209:VAL:H	2:CG:210:PRO:CD	2.07	0.68
2:CG:223:ASN:HD22	2:CG:223:ASN:H	1.41	0.68
2:CH:115:ASN:ND2	3:Ds:190:ALA:O	2.26	0.68
2:CH:152:TYR:CZ	3:DH:60:PRO:HD3	2.28	0.68
2:CK:209:VAL:H	2:CK:210:PRO:CD	2.07	0.68
2:CU:209:VAL:H	2:CU:210:PRO:CD	2.07	0.68
2:CW:209:VAL:H	2:CW:210:PRO:CD	2.07	0.68
2:CZ:119:ALA:O	2:CZ:204:GLY:HA3	1.92	0.68
2:CZ:152:TYR:CZ	3:DZ:60:PRO:HD3	2.28	0.68
2:Cb:20:GLY:HA2	2:Cb:56:PRO:O	1.94	0.68
2:Cc:152:TYR:CZ	3:Dc:60:PRO:HD3	2.28	0.68
2:Cd:152:TYR:CZ	3:Dd:60:PRO:HD3	2.28	0.68
2:Ch:223:ASN:HD22	2:Ch:223:ASN:H	1.41	0.68
2:Cn:208:THR:OG1	2:Cn:210:PRO:HD3	1.92	0.68
2:Co:115:ASN:ND2	3:DR:190:ALA:O	2.26	0.68
2:Co:152:TYR:CZ	3:Do:60:PRO:HD3	2.28	0.68
2:Cp:223:ASN:H	2:Cp:223:ASN:HD22	1.41	0.68
2:Cq:152:TYR:CZ	3:Dq:60:PRO:HD3	2.28	0.68
2:Cq:208:THR:OG1	2:Cq:210:PRO:HD3	1.92	0.68
2:Cx:152:TYR:CZ	3:EE:60:PRO:HD3	2.28	0.68
2:Cx:212:THR:HG21	3:Do:188:LEU:HD22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D4:99:GLN:OE1	3:D4:217:ARG:HD2	1.93	0.68
3:DA:99:GLN:OE1	3:DA:217:ARG:HD2	1.93	0.68
3:DC:99:GLN:OE1	3:DC:217:ARG:HD2	1.93	0.68
3:DI:99:GLN:OE1	3:DI:217:ARG:HD2	1.93	0.68
3:DJ:56:ILE:HG13	3:DJ:74:PHE:CE1	2.29	0.68
3:DK:42:ASN:ND2	3:DK:44:ILE:H	1.90	0.68
3:DQ:99:GLN:OE1	3:DQ:217:ARG:HD2	1.93	0.68
3:DQ:119:LYS:HG2	3:DQ:147:ASP:OD2	1.93	0.68
3:DS:42:ASN:ND2	3:DS:44:ILE:H	1.90	0.68
3:DT:56:ILE:HG13	3:DT:74:PHE:CE1	2.29	0.68
3:DX:99:GLN:OE1	3:DX:217:ARG:HD2	1.93	0.68
3:DY:99:GLN:OE1	3:DY:217:ARG:HD2	1.93	0.68
3:DY:119:LYS:HG2	3:DY:147:ASP:OD2	1.93	0.68
3:Dj:99:GLN:OE1	3:Dj:217:ARG:HD2	1.93	0.68
3:Dm:99:GLN:OE1	3:Dm:217:ARG:HD2	1.93	0.68
3:Do:99:GLN:OE1	3:Do:217:ARG:HD2	1.93	0.68
3:ED:56:ILE:HG13	3:ED:74:PHE:CE1	2.29	0.68
1:A6:57:LEU:HD21	1:A6:195:ILE:HG12	1.76	0.68
1:A6:82:LEU:HD11	1:A6:211:TYR:CD2	2.26	0.68
1:A6:88:PHE:HA	1:A6:207:CYS:HA	1.74	0.68
1:A7:88:PHE:CE2	1:A7:146:ILE:HD13	2.28	0.68
1:A8:101:PHE:HD2	1:A8:143:VAL:HG11	1.56	0.68
1:A9:76:THR:HB	1:A9:220:CYS:HB2	1.74	0.68
1:A9:113:THR:HB	1:An:240:PRO:O	1.93	0.68
1:AC:83:GLU:HG2	1:AC:157:SER:HA	1.76	0.68
1:AF:57:LEU:HD21	1:AF:195:ILE:HG12	1.76	0.68
1:AF:104:VAL:HG22	1:AF:197:LEU:CD2	2.22	0.68
1:AF:240:PRO:O	1:Aj:113:THR:HB	1.93	0.68
1:AP:130:ILE:CD1	1:AP:135:VAL:HG12	2.24	0.68
1:AQ:113:THR:HB	1:AR:240:PRO:O	1.93	0.68
1:AS:88:PHE:HE2	1:AS:146:ILE:HG21	1.58	0.68
1:AV:103:TRP:HB2	1:AV:198:THR:CG2	2.23	0.68
1:AV:113:THR:HB	1:AW:240:PRO:O	1.93	0.68
1:AZ:101:PHE:HD2	1:AZ:143:VAL:HG11	1.56	0.68
1:Aa:103:TRP:HB2	1:Aa:198:THR:CG2	2.23	0.68
1:Ad:57:LEU:HD21	1:Ad:195:ILE:HG12	1.76	0.68
1:Ad:88:PHE:HE2	1:Ad:146:ILE:HG21	1.58	0.68
1:Ae:113:THR:HB	1:Af:240:PRO:O	1.93	0.68
1:Af:83:GLU:HG2	1:Af:157:SER:HA	1.76	0.68
1:Ak:57:LEU:HD21	1:Ak:195:ILE:HG12	1.76	0.68
1:Al:82:LEU:HD11	1:Al:211:TYR:CD2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Al:103:TRP:HB2	1:Al:198:THR:CG2	2.23	0.68
1:BA:83:GLU:HG2	1:BA:157:SER:HA	1.76	0.68
1:BA:113:THR:HB	1:BB:240:PRO:O	1.93	0.68
1:BC:88:PHE:HA	1:BC:207:CYS:HA	1.74	0.68
1:BD:83:GLU:HG2	1:BD:157:SER:HA	1.76	0.68
1:BE:88:PHE:CE2	1:BE:146:ILE:HD13	2.28	0.68
2:C0:152:TYR:CZ	3:D0:60:PRO:HD3	2.28	0.68
2:C4:119:ALA:O	2:C4:204:GLY:HA3	1.92	0.68
2:C7:209:VAL:H	2:C7:210:PRO:CD	2.07	0.68
2:C8:20:GLY:HA2	2:C8:56:PRO:O	1.94	0.68
2:CB:115:ASN:C	3:Df:119:LYS:HZ3	2.02	0.68
2:CC:212:THR:HG21	3:Dn:188:LEU:HD22	1.75	0.68
2:CF:212:THR:HG21	3:D6:188:LEU:HD22	1.75	0.68
2:CK:115:ASN:C	3:Db:119:LYS:HZ3	2.01	0.68
2:CL:212:THR:HG21	3:Dk:188:LEU:HD22	1.75	0.68
2:CQ:212:THR:HG21	3:Dp:188:LEU:HD22	1.75	0.68
2:CR:54:LEU:HD12	2:CR:220:ALA:HB1	1.74	0.68
2:CR:152:TYR:CZ	3:DR:60:PRO:HD3	2.28	0.68
2:CU:223:ASN:H	2:CU:223:ASN:HD22	1.41	0.68
2:CY:209:VAL:O	2:CY:209:VAL:HG12	1.94	0.68
2:CZ:58:LEU:HD13	2:CZ:94:PHE:CA	2.23	0.68
2:Ca:49:ASP:HB2	3:Db:161:SER:HB3	1.76	0.68
2:Ch:58:LEU:HD13	2:Ch:94:PHE:CA	2.23	0.68
2:Ck:58:LEU:HD13	2:Ck:94:PHE:CA	2.23	0.68
2:Cm:152:TYR:CZ	3:Dm:60:PRO:HD3	2.28	0.68
2:Cn:212:THR:HG21	3:De:188:LEU:HD22	1.75	0.68
2:Cu:152:TYR:CZ	3:EB:60:PRO:HD3	2.28	0.68
2:Cw:119:ALA:O	2:Cw:204:GLY:HA3	1.92	0.68
3:D0:56:ILE:O	3:D0:59:LYS:HG2	1.94	0.68
3:D0:99:GLN:OE1	3:D0:217:ARG:HD2	1.93	0.68
3:D1:56:ILE:HG13	3:D1:74:PHE:CE1	2.29	0.68
3:D2:119:LYS:HG2	3:D2:147:ASP:OD2	1.93	0.68
3:D3:56:ILE:HG13	3:D3:74:PHE:CE1	2.29	0.68
3:D7:19:PRO:O	3:D7:20:ASP:HB2	1.94	0.68
3:DA:56:ILE:HG13	3:DA:74:PHE:CE1	2.29	0.68
3:DC:119:LYS:HG2	3:DC:147:ASP:OD2	1.93	0.68
3:DD:99:GLN:OE1	3:DD:217:ARG:HD2	1.93	0.68
3:DD:116:THR:CG2	3:DD:191:LEU:HD21	2.21	0.68
3:DJ:42:ASN:ND2	3:DJ:44:ILE:H	1.90	0.68
3:DK:119:LYS:HG2	3:DK:147:ASP:OD2	1.93	0.68
3:DN:56:ILE:O	3:DN:59:LYS:HG2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:42:ASN:ND2	3:DT:44:ILE:H	1.90	0.68
3:DW:56:ILE:HG13	3:DW:74:PHE:CE1	2.29	0.68
3:Da:56:ILE:HG13	3:Da:74:PHE:CE1	2.29	0.68
3:Dd:119:LYS:HG2	3:Dd:147:ASP:OD2	1.93	0.68
3:Dg:56:ILE:HG13	3:Dg:74:PHE:CE1	2.29	0.68
3:Dh:56:ILE:O	3:Dh:59:LYS:HG2	1.94	0.68
3:Dm:119:LYS:HG2	3:Dm:147:ASP:OD2	1.93	0.68
3:Dq:99:GLN:OE1	3:Dq:217:ARG:HD2	1.93	0.68
3:Dr:56:ILE:HG13	3:Dr:74:PHE:CE1	2.29	0.68
3:EA:56:ILE:HG13	3:EA:74:PHE:CE1	2.29	0.68
3:EB:56:ILE:O	3:EB:59:LYS:HG2	1.94	0.68
3:EE:99:GLN:OE1	3:EE:217:ARG:HD2	1.93	0.68
1:A1:88:PHE:CE2	1:A1:146:ILE:HD13	2.28	0.68
1:A2:88:PHE:HE2	1:A2:146:ILE:HG21	1.58	0.68
1:A5:130:ILE:CD1	1:A5:135:VAL:HG12	2.24	0.68
1:A7:76:THR:HB	1:A7:220:CYS:HB2	1.74	0.68
1:A8:240:PRO:O	1:Ab:113:THR:HB	1.93	0.68
1:AA:113:THR:HB	1:AB:240:PRO:O	1.93	0.68
1:AE:103:TRP:HB2	1:AE:198:THR:CG2	2.23	0.68
1:AI:83:GLU:HG2	1:AI:157:SER:HA	1.76	0.68
1:AI:103:TRP:HB2	1:AI:198:THR:CG2	2.23	0.68
1:AI:164:TRP:HZ2	1:AI:187:LEU:HD21	1.58	0.68
1:AL:103:TRP:HB2	1:AL:198:THR:CG2	2.23	0.68
1:AQ:57:LEU:HD21	1:AQ:195:ILE:HG12	1.76	0.68
1:AS:83:GLU:HG2	1:AS:157:SER:HA	1.76	0.68
1:AV:83:GLU:HG2	1:AV:157:SER:HA	1.76	0.68
1:AW:88:PHE:HE2	1:AW:146:ILE:HG21	1.58	0.68
1:AX:103:TRP:HB2	1:AX:198:THR:CG2	2.23	0.68
1:AZ:88:PHE:HE2	1:AZ:146:ILE:HG21	1.58	0.68
1:Ae:88:PHE:HE2	1:Ae:146:ILE:HG21	1.58	0.68
1:Ah:88:PHE:HE2	1:Ah:146:ILE:HG21	1.58	0.68
1:Ak:83:GLU:HG2	1:Ak:157:SER:HA	1.76	0.68
1:Ao:88:PHE:HA	1:Ao:207:CYS:HA	1.74	0.68
1:BB:103:TRP:HB2	1:BB:198:THR:CG2	2.23	0.68
1:BC:57:LEU:HD21	1:BC:195:ILE:HG12	1.76	0.68
1:BC:83:GLU:HG2	1:BC:157:SER:HA	1.76	0.68
2:C2:20:GLY:HA2	2:C2:56:PRO:O	1.94	0.68
2:C4:58:LEU:HD13	2:C4:94:PHE:CA	2.23	0.68
2:C4:209:VAL:O	2:C4:209:VAL:HG12	1.94	0.68
2:C6:115:ASN:ND2	3:DE:190:ALA:O	2.26	0.68
2:C6:152:TYR:CZ	3:D6:60:PRO:HD3	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:152:TYR:CZ	3:D7:60:PRO:HD3	2.28	0.68
2:C7:212:THR:HG21	3:Dm:188:LEU:HD22	1.75	0.68
2:CA:209:VAL:O	2:CA:209:VAL:HG12	1.94	0.68
2:CF:20:GLY:HA2	2:CF:56:PRO:O	1.94	0.68
2:CJ:20:GLY:HA2	2:CJ:56:PRO:O	1.94	0.68
2:CK:223:ASN:H	2:CK:223:ASN:HD22	1.41	0.68
2:CL:58:LEU:HD13	2:CL:94:PHE:CA	2.23	0.68
2:CN:120:HIS:CD2	2:CN:205:PRO:HD2	2.29	0.68
2:CO:212:THR:HG21	3:DP:188:LEU:HD22	1.75	0.68
2:CR:20:GLY:HA2	2:CR:56:PRO:O	1.94	0.68
2:CS:120:HIS:CD2	2:CS:205:PRO:HD2	2.29	0.68
2:CV:49:ASP:HB2	3:DW:161:SER:HB3	1.76	0.68
2:CV:120:HIS:CD2	2:CV:205:PRO:HD2	2.29	0.68
2:CV:209:VAL:O	2:CV:209:VAL:HG12	1.94	0.68
2:CZ:115:ASN:ND2	3:Dq:190:ALA:O	2.26	0.68
2:Cf:115:ASN:ND2	3:DV:190:ALA:O	2.26	0.68
2:Ci:49:ASP:HB2	3:De:161:SER:HB3	1.76	0.68
2:Cj:212:THR:HG21	3:DM:188:LEU:HD22	1.75	0.68
2:Ck:115:ASN:ND2	3:Da:190:ALA:O	2.26	0.68
2:Cl:20:GLY:HA2	2:Cl:56:PRO:O	1.94	0.68
2:Cn:152:TYR:CZ	3:Dn:60:PRO:HD3	2.28	0.68
2:Cp:49:ASP:HB2	3:Dq:161:SER:HB3	1.76	0.68
2:Cq:120:HIS:CD2	2:Cq:205:PRO:HD2	2.29	0.68
2:Cs:209:VAL:H	2:Cs:210:PRO:CD	2.07	0.68
2:Ct:223:ASN:HD22	2:Ct:223:ASN:H	1.41	0.68
2:Cv:20:GLY:HA2	2:Cv:56:PRO:O	1.94	0.68
2:Cv:58:LEU:HD13	2:Cv:94:PHE:CA	2.23	0.68
3:D5:56:ILE:HG13	3:D5:74:PHE:CE1	2.29	0.68
3:D6:56:ILE:O	3:D6:59:LYS:HG2	1.94	0.68
3:D9:56:ILE:O	3:D9:59:LYS:HG2	1.94	0.68
3:DF:56:ILE:HG13	3:DF:74:PHE:CE1	2.29	0.68
3:DI:116:THR:CG2	3:DI:191:LEU:HD21	2.21	0.68
3:DL:99:GLN:OE1	3:DL:217:ARG:HD2	1.93	0.68
3:DN:119:LYS:HG2	3:DN:147:ASP:OD2	1.93	0.68
3:DS:56:ILE:O	3:DS:59:LYS:HG2	1.94	0.68
3:DS:99:GLN:OE1	3:DS:217:ARG:HD2	1.93	0.68
3:DW:99:GLN:OE1	3:DW:217:ARG:HD2	1.93	0.68
3:DX:42:ASN:ND2	3:DX:44:ILE:H	1.90	0.68
3:DX:56:ILE:HG13	3:DX:74:PHE:CE1	2.29	0.68
3:DZ:56:ILE:O	3:DZ:59:LYS:HG2	1.94	0.68
3:Dc:99:GLN:OE1	3:Dc:217:ARG:HD2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dd:99:GLN:OE1	3:Dd:217:ARG:HD2	1.93	0.68
3:Di:56:ILE:HG13	3:Di:74:PHE:CE1	2.29	0.68
3:Di:56:ILE:O	3:Di:59:LYS:HG2	1.94	0.68
3:Dj:56:ILE:O	3:Dj:59:LYS:HG2	1.94	0.68
3:Dn:56:ILE:HG13	3:Dn:74:PHE:CE1	2.29	0.68
3:Dq:19:PRO:O	3:Dq:20:ASP:HB2	1.94	0.68
3:Ds:56:ILE:HG13	3:Ds:74:PHE:CE1	2.29	0.68
3:Ds:119:LYS:HG2	3:Ds:147:ASP:OD2	1.93	0.68
3:EC:19:PRO:O	3:EC:20:ASP:HB2	1.94	0.68
3:EE:116:THR:CG2	3:EE:191:LEU:HD21	2.21	0.68
1:A6:103:TRP:HB2	1:A6:198:THR:CG2	2.23	0.68
1:AA:83:GLU:HG2	1:AA:157:SER:HA	1.76	0.68
1:AA:103:TRP:HB2	1:AA:198:THR:CG2	2.23	0.68
1:AC:76:THR:HB	1:AC:220:CYS:HB2	1.74	0.68
1:AD:83:GLU:HG2	1:AD:157:SER:HA	1.76	0.68
1:AD:130:ILE:CD1	1:AD:135:VAL:HG12	2.24	0.68
1:AG:88:PHE:HE2	1:AG:146:ILE:HG21	1.58	0.68
1:AI:130:ILE:CD1	1:AI:135:VAL:HG12	2.24	0.68
1:AJ:76:THR:HB	1:AJ:220:CYS:HB2	1.75	0.68
1:AK:88:PHE:CE2	1:AK:146:ILE:HD13	2.28	0.68
1:AK:113:THR:HB	1:AL:240:PRO:O	1.93	0.68
1:AP:164:TRP:HZ2	1:AP:187:LEU:HD21	1.58	0.68
1:AQ:76:THR:HB	1:AQ:220:CYS:HB2	1.74	0.68
1:AQ:82:LEU:HD11	1:AQ:211:TYR:CD2	2.26	0.68
1:AQ:88:PHE:CE2	1:AQ:146:ILE:HD13	2.28	0.68
1:AR:130:ILE:CD1	1:AR:135:VAL:HG12	2.24	0.68
1:AU:88:PHE:CE2	1:AU:146:ILE:HD13	2.28	0.68
1:AV:82:LEU:HD11	1:AV:211:TYR:CD2	2.26	0.68
1:AY:88:PHE:HA	1:AY:207:CYS:HA	1.74	0.68
1:AZ:88:PHE:HA	1:AZ:207:CYS:HA	1.75	0.68
1:Ab:103:TRP:HB2	1:Ab:198:THR:CG2	2.23	0.68
1:Ag:83:GLU:HG2	1:Ag:157:SER:HA	1.76	0.68
1:Aj:57:LEU:HD21	1:Aj:195:ILE:HG12	1.76	0.68
1:Aj:88:PHE:CE2	1:Aj:146:ILE:HD13	2.28	0.68
1:Ak:88:PHE:HE2	1:Ak:146:ILE:HG21	1.58	0.68
1:An:164:TRP:HZ2	1:An:187:LEU:HD21	1.58	0.68
1:Ao:43:LEU:HD23	1:Ao:43:LEU:N	2.07	0.68
1:Ao:88:PHE:CE2	1:Ao:146:ILE:HD13	2.28	0.68
1:Ao:103:TRP:HB2	1:Ao:198:THR:CG2	2.23	0.68
1:BB:113:THR:HB	1:BC:240:PRO:O	1.93	0.68
1:BC:110:GLY:H	1:BD:242:ASN:HD22	1.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:57:LEU:HD21	1:BD:195:ILE:HG12	1.76	0.68
1:BD:103:TRP:HB2	1:BD:198:THR:CG2	2.23	0.68
1:BG:83:GLU:HG2	1:BG:157:SER:HA	1.76	0.68
2:C1:119:ALA:O	2:C1:204:GLY:HA3	1.92	0.68
2:C2:209:VAL:HG12	2:C2:209:VAL:O	1.94	0.68
2:C3:209:VAL:H	2:C3:210:PRO:CD	2.07	0.68
2:C3:212:THR:HG21	3:DU:188:LEU:HD22	1.75	0.68
2:C7:223:ASN:H	2:C7:223:ASN:HD22	1.41	0.68
2:CA:209:VAL:H	2:CA:210:PRO:CD	2.07	0.68
2:CE:120:HIS:CD2	2:CE:205:PRO:HD2	2.29	0.68
2:CE:212:THR:HG21	3:DF:188:LEU:HD22	1.75	0.68
2:CG:13:ARG:HB3	2:CG:27:GLN:OE1	1.94	0.68
2:CI:20:GLY:HA2	2:CI:56:PRO:O	1.94	0.68
2:CK:20:GLY:HA2	2:CK:56:PRO:O	1.94	0.68
2:CK:209:VAL:O	2:CK:209:VAL:HG12	1.94	0.68
2:CL:209:VAL:O	2:CL:209:VAL:HG12	1.94	0.68
2:CN:20:GLY:HA2	2:CN:56:PRO:O	1.94	0.68
2:CO:20:GLY:HA2	2:CO:56:PRO:O	1.94	0.68
2:CS:223:ASN:HD22	2:CS:223:ASN:H	1.41	0.68
2:Cc:20:GLY:HA2	2:Cc:56:PRO:O	1.94	0.68
2:Cd:208:THR:OG1	2:Cd:210:PRO:HD3	1.92	0.68
2:Ce:209:VAL:H	2:Ce:210:PRO:CD	2.07	0.68
2:CI:115:ASN:ND2	3:Dj:190:ALA:O	2.26	0.68
2:Cj:115:ASN:ND2	3:DM:190:ALA:O	2.26	0.68
2:Cn:209:VAL:O	2:Cn:209:VAL:HG12	1.94	0.68
2:Cp:54:LEU:HD12	2:Cp:220:ALA:HB1	1.73	0.68
2:Cp:209:VAL:O	2:Cp:209:VAL:HG12	1.94	0.68
2:Cq:20:GLY:HA2	2:Cq:56:PRO:O	1.94	0.68
2:Ct:49:ASP:HB2	3:EB:161:SER:HB3	1.76	0.68
2:Cu:20:GLY:HA2	2:Cu:56:PRO:O	1.94	0.68
2:Cw:120:HIS:CD2	2:Cw:205:PRO:HD2	2.29	0.68
2:Cw:212:THR:HG21	3:DS:188:LEU:HD22	1.75	0.68
2:Cx:49:ASP:HB2	3:EA:161:SER:HB3	1.76	0.68
3:D3:99:GLN:OE1	3:D3:217:ARG:HD2	1.93	0.68
3:D6:99:GLN:OE1	3:D6:217:ARG:HD2	1.93	0.68
3:DJ:56:ILE:O	3:DJ:59:LYS:HG2	1.94	0.68
3:DK:99:GLN:OE1	3:DK:217:ARG:HD2	1.93	0.68
3:DM:56:ILE:HG13	3:DM:74:PHE:CE1	2.29	0.68
3:DQ:56:ILE:HG13	3:DQ:74:PHE:CE1	2.29	0.68
3:DR:56:ILE:O	3:DR:59:LYS:HG2	1.94	0.68
3:DT:116:THR:CG2	3:DT:191:LEU:HD21	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:99:GLN:OE1	3:DU:217:ARG:HD2	1.93	0.68
3:DW:56:ILE:O	3:DW:59:LYS:HG2	1.94	0.68
3:DW:116:THR:CG2	3:DW:191:LEU:HD21	2.21	0.68
3:De:99:GLN:OE1	3:De:217:ARG:HD2	1.93	0.68
3:Dg:42:ASN:ND2	3:Dg:44:ILE:H	1.90	0.68
3:Do:42:ASN:ND2	3:Do:44:ILE:H	1.90	0.68
3:Do:56:ILE:O	3:Do:59:LYS:HG2	1.94	0.68
3:EB:119:LYS:HG2	3:EB:147:ASP:OD2	1.93	0.68
3:EE:56:ILE:HG13	3:EE:74:PHE:CE1	2.29	0.68
1:A1:88:PHE:HE2	1:A1:146:ILE:HG21	1.58	0.67
1:A2:130:ILE:CD1	1:A2:135:VAL:HG12	2.24	0.67
1:A6:83:GLU:HG2	1:A6:157:SER:HA	1.76	0.67
1:A8:113:THR:HB	1:A9:240:PRO:O	1.93	0.67
1:A9:88:PHE:HE2	1:A9:146:ILE:HG21	1.58	0.67
1:AA:130:ILE:CD1	1:AA:135:VAL:HG12	2.24	0.67
1:AB:103:TRP:HB2	1:AB:198:THR:CG2	2.23	0.67
1:AC:103:TRP:HB2	1:AC:198:THR:CG2	2.23	0.67
1:AC:113:THR:HB	1:AD:240:PRO:O	1.93	0.67
1:AE:130:ILE:CD1	1:AE:135:VAL:HG12	2.24	0.67
1:AF:113:THR:HB	1:AG:240:PRO:O	1.93	0.67
1:AI:76:THR:HB	1:AI:220:CYS:HB2	1.74	0.67
1:AI:88:PHE:HE2	1:AI:146:ILE:HG21	1.58	0.67
1:AN:88:PHE:HE2	1:AN:146:ILE:HG21	1.58	0.67
1:AR:83:GLU:HG2	1:AR:157:SER:HA	1.76	0.67
1:AV:57:LEU:HD21	1:AV:195:ILE:HG12	1.76	0.67
1:AV:110:GLY:H	1:AW:242:ASN:HD22	1.43	0.67
1:AV:130:ILE:CD1	1:AV:135:VAL:HG12	2.24	0.67
1:AX:83:GLU:HG2	1:AX:157:SER:HA	1.76	0.67
1:Ad:82:LEU:HD11	1:Ad:211:TYR:CD2	2.26	0.67
1:Ai:110:GLY:H	1:Aj:242:ASN:HD22	1.42	0.67
1:Aj:113:THR:HB	1:Ak:240:PRO:O	1.93	0.67
1:Ak:103:TRP:HB2	1:Ak:198:THR:CG2	2.23	0.67
1:Al:130:ILE:CD1	1:Al:135:VAL:HG12	2.24	0.67
2:C6:49:ASP:HB2	3:D7:161:SER:HB3	1.76	0.67
2:CD:49:ASP:HB2	3:DE:161:SER:HB3	1.76	0.67
2:CD:209:VAL:O	2:CD:209:VAL:HG12	1.94	0.67
2:CF:49:ASP:HB2	3:DG:161:SER:HB3	1.76	0.67
2:CG:209:VAL:HG12	2:CG:209:VAL:O	1.94	0.67
2:CI:13:ARG:HB3	2:CI:27:GLN:OE1	1.94	0.67
2:CJ:58:LEU:HD13	2:CJ:94:PHE:CA	2.23	0.67
2:CM:120:HIS:CD2	2:CM:205:PRO:HD2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:208:THR:OG1	2:CM:210:PRO:HD3	1.92	0.67
2:CP:58:LEU:HD13	2:CP:94:PHE:CA	2.23	0.67
2:CT:223:ASN:H	2:CT:223:ASN:HD22	1.41	0.67
2:CZ:49:ASP:HB2	3:D0:161:SER:HB3	1.76	0.67
2:Ca:115:ASN:C	3:DL:119:LYS:HZ3	2.02	0.67
2:Ce:20:GLY:HA2	2:Ce:56:PRO:O	1.94	0.67
2:Cf:49:ASP:HB2	3:Dg:161:SER:HB3	1.76	0.67
2:Ch:49:ASP:HB2	3:Di:161:SER:HB3	1.76	0.67
2:Ci:20:GLY:HA2	2:Ci:56:PRO:O	1.94	0.67
2:Cj:13:ARG:HB3	2:Cj:27:GLN:OE1	1.94	0.67
2:Cj:20:GLY:HA2	2:Cj:56:PRO:O	1.94	0.67
2:Ck:223:ASN:H	2:Ck:223:ASN:HD22	1.41	0.67
2:Cn:20:GLY:HA2	2:Cn:56:PRO:O	1.94	0.67
2:Cq:223:ASN:H	2:Cq:223:ASN:HD22	1.41	0.67
2:Cv:209:VAL:O	2:Cv:209:VAL:HG12	1.94	0.67
2:Cw:49:ASP:HB2	3:EE:161:SER:HB3	1.76	0.67
3:D6:119:LYS:HG2	3:D6:147:ASP:OD2	1.93	0.67
3:D7:56:ILE:HG13	3:D7:74:PHE:CE1	2.29	0.67
3:DA:56:ILE:O	3:DA:59:LYS:HG2	1.94	0.67
3:DD:56:ILE:HG13	3:DD:74:PHE:CE1	2.29	0.67
3:DO:56:ILE:O	3:DO:59:LYS:HG2	1.94	0.67
3:DP:42:ASN:ND2	3:DP:44:ILE:H	1.90	0.67
3:DP:119:LYS:HG2	3:DP:147:ASP:OD2	1.93	0.67
3:Dk:99:GLN:OE1	3:Dk:217:ARG:HD2	1.93	0.67
3:Do:119:LYS:HG2	3:Do:147:ASP:OD2	1.93	0.67
3:Dr:119:LYS:HG2	3:Dr:147:ASP:OD2	1.93	0.67
3:EC:99:GLN:OE1	3:EC:217:ARG:HD2	1.93	0.67
1:A0:57:LEU:HD21	1:A0:195:ILE:HG12	1.76	0.67
1:A0:240:PRO:O	1:AZ:113:THR:HB	1.93	0.67
1:A2:83:GLU:HG2	1:A2:157:SER:HA	1.76	0.67
1:A5:88:PHE:HA	1:A5:207:CYS:HA	1.74	0.67
1:AE:83:GLU:HG2	1:AE:157:SER:HA	1.76	0.67
1:AH:57:LEU:HD21	1:AH:195:ILE:HG12	1.76	0.67
1:AH:88:PHE:HE2	1:AH:146:ILE:HG21	1.58	0.67
1:AH:110:GLY:H	1:AI:242:ASN:HD22	1.43	0.67
1:AH:164:TRP:HZ2	1:AH:187:LEU:HD21	1.58	0.67
1:AJ:83:GLU:HG2	1:AJ:157:SER:HA	1.76	0.67
1:AJ:103:TRP:HB2	1:AJ:198:THR:CG2	2.23	0.67
1:AK:76:THR:HB	1:AK:220:CYS:HB2	1.75	0.67
1:AK:103:TRP:HB2	1:AK:198:THR:CG2	2.23	0.67
1:AT:88:PHE:HE2	1:AT:146:ILE:HG21	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:83:GLU:HG2	1:AW:157:SER:HA	1.76	0.67
1:Af:110:GLY:H	1:Ag:242:ASN:HD22	1.43	0.67
1:Aj:130:ILE:CD1	1:Aj:135:VAL:HG12	2.24	0.67
1:Am:88:PHE:HE2	1:Am:146:ILE:HG21	1.58	0.67
1:Am:240:PRO:O	1:BD:113:THR:HB	1.93	0.67
1:An:88:PHE:CE2	1:An:146:ILE:HD13	2.28	0.67
1:BA:130:ILE:CD1	1:BA:135:VAL:HG12	2.24	0.67
1:BD:88:PHE:HE2	1:BD:146:ILE:HG21	1.58	0.67
2:C3:120:HIS:CD2	2:C3:205:PRO:HD2	2.29	0.67
2:C8:115:ASN:ND2	3:D9:190:ALA:O	2.26	0.67
2:C9:49:ASP:HB2	3:Da:161:SER:HB3	1.76	0.67
2:CA:20:GLY:HA2	2:CA:56:PRO:O	1.94	0.67
2:CD:120:HIS:CD2	2:CD:205:PRO:HD2	2.29	0.67
2:CG:212:THR:HG21	3:EB:188:LEU:HD22	1.75	0.67
2:CH:13:ARG:HB3	2:CH:27:GLN:OE1	1.95	0.67
2:CH:209:VAL:HG12	2:CH:209:VAL:O	1.94	0.67
2:CN:212:THR:HG21	3:D2:188:LEU:HD22	1.75	0.67
2:CV:20:GLY:HA2	2:CV:56:PRO:O	1.94	0.67
2:CW:20:GLY:HA2	2:CW:56:PRO:O	1.94	0.67
2:CW:49:ASP:HB2	3:DX:161:SER:HB3	1.76	0.67
2:CW:152:TYR:CZ	3:DW:60:PRO:HD3	2.28	0.67
2:CX:49:ASP:HB2	3:DY:161:SER:HB3	1.76	0.67
2:Ca:13:ARG:HB3	2:Ca:27:GLN:OE1	1.94	0.67
2:Ce:223:ASN:H	2:Ce:223:ASN:HD22	1.41	0.67
2:Cg:20:GLY:HA2	2:Cg:56:PRO:O	1.94	0.67
2:Ci:152:TYR:CZ	3:Di:60:PRO:HD3	2.28	0.67
2:Cl:13:ARG:HB3	2:Cl:27:GLN:OE1	1.94	0.67
2:Co:212:THR:HG21	3:DR:188:LEU:HD22	1.75	0.67
2:Cp:120:HIS:CD2	2:Cp:205:PRO:HD2	2.29	0.67
2:Cq:209:VAL:H	2:Cq:210:PRO:CD	2.07	0.67
2:Cr:209:VAL:H	2:Cr:210:PRO:CD	2.07	0.67
2:Cs:20:GLY:HA2	2:Cs:56:PRO:O	1.94	0.67
2:Cs:152:TYR:CZ	3:Ds:60:PRO:HD3	2.28	0.67
2:Cs:212:THR:HG21	3:EA:188:LEU:HD22	1.75	0.67
2:Cv:120:HIS:CD2	2:Cv:205:PRO:HD2	2.29	0.67
3:D3:8:VAL:HB	3:D3:10:GLU:HG2	1.77	0.67
3:D5:56:ILE:O	3:D5:59:LYS:HG2	1.94	0.67
3:DH:56:ILE:O	3:DH:59:LYS:HG2	1.94	0.67
3:DJ:19:PRO:O	3:DJ:20:ASP:HB2	1.94	0.67
3:DQ:56:ILE:O	3:DQ:59:LYS:HG2	1.94	0.67
3:DS:56:ILE:HG13	3:DS:74:PHE:CE1	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Da:66:ASN:HA	3:Da:190:ALA:HB1	1.77	0.67
3:Dj:42:ASN:ND2	3:Dj:44:ILE:H	1.90	0.67
3:Dj:56:ILE:HG13	3:Dj:74:PHE:CE1	2.29	0.67
3:Dl:56:ILE:O	3:Dl:59:LYS:HG2	1.94	0.67
3:Dl:119:LYS:HG2	3:Dl:147:ASP:OD2	1.93	0.67
3:Dm:56:ILE:O	3:Dm:59:LYS:HG2	1.94	0.67
3:Dn:119:LYS:HG2	3:Dn:147:ASP:OD2	1.93	0.67
3:Ec:119:LYS:HG2	3:Ec:147:ASP:OD2	1.93	0.67
1:A5:82:LEU:HD11	1:A5:211:TYR:CD2	2.26	0.67
1:A8:242:ASN:HD22	1:Ab:110:GLY:H	1.42	0.67
1:A9:83:GLU:HG2	1:A9:157:SER:HA	1.76	0.67
1:AA:240:PRO:O	1:AE:113:THR:HB	1.93	0.67
1:AF:103:TRP:HB2	1:AF:198:THR:CG2	2.23	0.67
1:AF:130:ILE:CD1	1:AF:135:VAL:HG12	2.24	0.67
1:AL:88:PHE:CE2	1:AL:146:ILE:HD13	2.28	0.67
1:AN:57:LEU:HD21	1:AN:195:ILE:HG12	1.76	0.67
1:AP:110:GLY:H	1:AQ:242:ASN:HD22	1.43	0.67
1:AY:83:GLU:HG2	1:AY:157:SER:HA	1.76	0.67
1:Aa:130:ILE:CD1	1:Aa:135:VAL:HG12	2.24	0.67
1:Ae:88:PHE:CE2	1:Ae:146:ILE:HD13	2.28	0.67
1:Ae:103:TRP:HB2	1:Ae:198:THR:CG2	2.24	0.67
1:Al:76:THR:HB	1:Al:220:CYS:HB2	1.75	0.67
1:BB:130:ILE:CD1	1:BB:135:VAL:HG12	2.24	0.67
1:BF:76:THR:HB	1:BF:220:CYS:HB2	1.74	0.67
1:BF:83:GLU:HG2	1:BF:157:SER:HA	1.76	0.67
1:BF:88:PHE:HE2	1:BF:146:ILE:HG21	1.58	0.67
1:BI:83:GLU:HG2	1:BI:157:SER:HA	1.76	0.67
1:BI:130:ILE:CD1	1:BI:135:VAL:HG12	2.24	0.67
2:C0:13:ARG:HB3	2:C0:27:GLN:OE1	1.94	0.67
2:C3:13:ARG:HB3	2:C3:27:GLN:OE1	1.95	0.67
2:C4:120:HIS:CD2	2:C4:205:PRO:HD2	2.29	0.67
2:C5:120:HIS:CD2	2:C5:205:PRO:HD2	2.29	0.67
2:CB:20:GLY:HA2	2:CB:56:PRO:O	1.94	0.67
2:CH:49:ASP:HB2	3:DI:161:SER:HB3	1.76	0.67
2:CI:58:LEU:HD13	2:CI:94:PHE:CA	2.23	0.67
2:CQ:115:ASN:ND2	3:Dp:190:ALA:O	2.26	0.67
2:CS:13:ARG:HB3	2:CS:27:GLN:OE1	1.94	0.67
2:CV:223:ASN:H	2:CV:223:ASN:HD22	1.41	0.67
2:CY:223:ASN:H	2:CY:223:ASN:HD22	1.41	0.67
2:Cd:212:THR:HG21	3:D4:188:LEU:HD22	1.75	0.67
2:Ce:115:ASN:ND2	3:DC:190:ALA:O	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cg:115:ASN:C	3:D3:119:LYS:HZ3	2.02	0.67
2:Ch:115:ASN:ND2	3:DN:190:ALA:O	2.26	0.67
2:Ci:13:ARG:HB3	2:Ci:27:GLN:OE1	1.94	0.67
2:Cl:120:HIS:CD2	2:Cl:205:PRO:HD2	2.29	0.67
2:Cl:212:THR:HG21	3:D8:188:LEU:HD22	1.75	0.67
2:Cr:13:ARG:HB3	2:Cr:27:GLN:OE1	1.95	0.67
2:Cs:115:ASN:ND2	3:EA:190:ALA:O	2.26	0.67
2:Cu:115:ASN:ND2	3:D5:190:ALA:O	2.26	0.67
3:D2:8:VAL:HB	3:D2:10:GLU:HG2	1.77	0.67
3:D5:8:VAL:HB	3:D5:10:GLU:HG2	1.77	0.67
3:D6:56:ILE:HG13	3:D6:74:PHE:CE1	2.29	0.67
3:D9:19:PRO:O	3:D9:20:ASP:HB2	1.94	0.67
3:DB:42:ASN:ND2	3:DB:44:ILE:H	1.90	0.67
3:DB:99:GLN:OE1	3:DB:217:ARG:HD2	1.93	0.67
3:DI:56:ILE:O	3:DI:59:LYS:HG2	1.94	0.67
3:DM:99:GLN:OE1	3:DM:217:ARG:HD2	1.93	0.67
3:DP:116:THR:CG2	3:DP:191:LEU:HD21	2.21	0.67
3:DR:56:ILE:HG13	3:DR:74:PHE:CE1	2.29	0.67
3:DT:99:GLN:OE1	3:DT:217:ARG:HD2	1.93	0.67
3:DV:56:ILE:HG13	3:DV:74:PHE:CE1	2.29	0.67
3:DY:56:ILE:O	3:DY:59:LYS:HG2	1.94	0.67
3:Dd:56:ILE:O	3:Dd:59:LYS:HG2	1.94	0.67
3:De:56:ILE:HG13	3:De:74:PHE:CE1	2.29	0.67
3:Dp:19:PRO:O	3:Dp:20:ASP:HB2	1.94	0.67
3:Ds:19:PRO:O	3:Ds:20:ASP:HB2	1.94	0.67
1:A0:83:GLU:HG2	1:A0:157:SER:HA	1.76	0.67
1:A2:113:THR:HB	1:AY:240:PRO:O	1.93	0.67
1:A3:130:ILE:CD1	1:A3:135:VAL:HG12	2.24	0.67
1:A7:57:LEU:HD21	1:A7:195:ILE:HG12	1.76	0.67
1:AA:57:LEU:HD21	1:AA:195:ILE:HG12	1.76	0.67
1:AA:110:GLY:H	1:AB:242:ASN:HD22	1.43	0.67
1:AB:83:GLU:HG2	1:AB:157:SER:HA	1.76	0.67
1:AG:103:TRP:HB2	1:AG:198:THR:CG2	2.23	0.67
1:AH:88:PHE:HA	1:AH:207:CYS:HA	1.75	0.67
1:AK:83:GLU:HG2	1:AK:157:SER:HA	1.76	0.67
1:AL:88:PHE:HE2	1:AL:146:ILE:HG21	1.58	0.67
1:AM:88:PHE:CE2	1:AM:146:ILE:HD13	2.28	0.67
1:AN:130:ILE:CD1	1:AN:135:VAL:HG12	2.24	0.67
1:AQ:130:ILE:CD1	1:AQ:135:VAL:HG12	2.24	0.67
1:AR:88:PHE:HE2	1:AR:146:ILE:HG21	1.58	0.67
1:AT:83:GLU:HG2	1:AT:157:SER:HA	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:103:TRP:HB2	1:AT:198:THR:CG2	2.23	0.67
1:AU:113:THR:HB	1:AV:240:PRO:O	1.93	0.67
1:AZ:130:ILE:CD1	1:AZ:135:VAL:HG12	2.25	0.67
1:Al:83:GLU:HG2	1:Al:157:SER:HA	1.76	0.67
1:BA:110:GLY:H	1:BB:242:ASN:HD22	1.43	0.67
1:BC:130:ILE:CD1	1:BC:135:VAL:HG12	2.24	0.67
2:C4:49:ASP:HB2	3:D5:161:SER:HB3	1.76	0.67
2:C5:209:VAL:O	2:C5:209:VAL:HG12	1.94	0.67
2:CC:20:GLY:HA2	2:CC:56:PRO:O	1.94	0.67
2:CF:120:HIS:CD2	2:CF:205:PRO:HD2	2.29	0.67
2:CG:120:HIS:CD2	2:CG:205:PRO:HD2	2.29	0.67
2:CH:120:HIS:CD2	2:CH:205:PRO:HD2	2.29	0.67
2:CH:223:ASN:HD22	2:CH:223:ASN:H	1.41	0.67
2:CK:13:ARG:HB3	2:CK:27:GLN:OE1	1.95	0.67
2:CK:49:ASP:HB2	3:DL:161:SER:HB3	1.76	0.67
2:CL:13:ARG:HB3	2:CL:27:GLN:OE1	1.95	0.67
2:CO:120:HIS:CD2	2:CO:205:PRO:HD2	2.29	0.67
2:CP:49:ASP:HB2	3:DQ:161:SER:HB3	1.76	0.67
2:CR:115:ASN:ND2	3:EE:190:ALA:O	2.26	0.67
2:CY:58:LEU:HD13	2:CY:94:PHE:CA	2.23	0.67
2:Ce:13:ARG:HB3	2:Ce:27:GLN:OE1	1.95	0.67
2:Cf:152:TYR:CZ	3:Df:60:PRO:HD3	2.28	0.67
2:Ch:20:GLY:HA2	2:Ch:56:PRO:O	1.94	0.67
2:Ci:120:HIS:CD2	2:Ci:205:PRO:HD2	2.29	0.67
2:Ck:120:HIS:CD2	2:Ck:205:PRO:HD2	2.29	0.67
3:D1:19:PRO:O	3:D1:20:ASP:HB2	1.94	0.67
3:D2:19:PRO:O	3:D2:20:ASP:HB2	1.94	0.67
3:D4:8:VAL:HB	3:D4:10:GLU:HG2	1.77	0.67
3:D9:56:ILE:HG13	3:D9:74:PHE:CE1	2.29	0.67
3:DL:56:ILE:O	3:DL:59:LYS:HG2	1.94	0.67
3:DL:56:ILE:HG13	3:DL:74:PHE:CE1	2.29	0.67
3:DM:119:LYS:HG2	3:DM:147:ASP:OD2	1.93	0.67
3:DY:56:ILE:HG13	3:DY:74:PHE:CE1	2.29	0.67
3:DZ:8:VAL:HB	3:DZ:10:GLU:HG2	1.77	0.67
3:Db:99:GLN:OE1	3:Db:217:ARG:HD2	1.93	0.67
3:Di:19:PRO:O	3:Di:20:ASP:HB2	1.94	0.67
3:Do:8:VAL:HB	3:Do:10:GLU:HG2	1.77	0.67
3:EA:119:LYS:HG2	3:EA:147:ASP:OD2	1.93	0.67
3:EB:19:PRO:O	3:EB:20:ASP:HB2	1.94	0.67
1:A0:82:LEU:HD11	1:A0:211:TYR:CD2	2.26	0.67
1:AJ:57:LEU:HD21	1:AJ:195:ILE:HG12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:130:ILE:CD1	1:AJ:135:VAL:HG12	2.24	0.67
1:AK:57:LEU:HD21	1:AK:195:ILE:HG12	1.76	0.67
1:AK:130:ILE:CD1	1:AK:135:VAL:HG12	2.24	0.67
1:AL:77:TYR:HD1	1:AL:168:PRO:HA	1.60	0.67
1:AM:88:PHE:HE2	1:AM:146:ILE:HG21	1.58	0.67
1:AS:82:LEU:HD11	1:AS:211:TYR:CD2	2.26	0.67
1:AU:110:GLY:H	1:AV:242:ASN:HD22	1.43	0.67
1:AX:76:THR:HB	1:AX:220:CYS:HB2	1.74	0.67
1:AY:130:ILE:CD1	1:AY:135:VAL:HG12	2.24	0.67
1:AZ:57:LEU:HD21	1:AZ:195:ILE:HG12	1.76	0.67
1:Aa:242:ASN:HD22	1:An:110:GLY:H	1.43	0.67
1:Aj:40:VAL:HB	1:Aj:68:TRP:CZ2	2.30	0.67
1:Am:77:TYR:HD1	1:Am:168:PRO:HA	1.60	0.67
1:BA:210:ARG:NH1	3:Dp:14:PHE:CE1	2.63	0.67
1:BE:88:PHE:HE2	1:BE:146:ILE:HG21	1.58	0.67
1:BE:240:PRO:O	1:BI:113:THR:HB	1.94	0.67
1:BG:82:LEU:HD11	1:BG:211:TYR:CD2	2.26	0.67
2:C0:20:GLY:HA2	2:C0:56:PRO:O	1.94	0.67
2:C1:209:VAL:HG12	2:C1:209:VAL:O	1.94	0.67
2:C1:212:THR:HG21	3:DO:188:LEU:HD22	1.75	0.67
2:C4:13:ARG:HB3	2:C4:27:GLN:OE1	1.95	0.67
2:CJ:115:ASN:ND2	3:DA:190:ALA:O	2.26	0.67
2:CK:115:ASN:ND2	3:Db:190:ALA:O	2.26	0.67
2:CL:209:VAL:H	2:CL:210:PRO:CD	2.07	0.67
2:CM:212:THR:HG21	3:Di:188:LEU:HD22	1.75	0.67
2:CO:13:ARG:HB3	2:CO:27:GLN:OE1	1.95	0.67
2:CQ:120:HIS:CD2	2:CQ:205:PRO:HD2	2.29	0.67
2:CV:152:TYR:CZ	3:DV:60:PRO:HD3	2.28	0.67
2:CV:212:THR:HG21	3:DB:188:LEU:HD22	1.75	0.67
2:CZ:209:VAL:O	2:CZ:209:VAL:HG12	1.94	0.67
2:Cc:49:ASP:HB2	3:Dd:161:SER:HB3	1.76	0.67
2:Cd:209:VAL:H	2:Cd:210:PRO:CD	2.07	0.67
2:Ce:49:ASP:HB2	3:Df:161:SER:HB3	1.76	0.67
2:Cl:49:ASP:HB2	3:Dm:161:SER:HB3	1.76	0.67
2:Cm:13:ARG:HB3	2:Cm:27:GLN:OE1	1.95	0.67
2:Cq:115:ASN:C	3:DY:119:LYS:HZ3	2.02	0.67
2:Cr:20:GLY:HA2	2:Cr:56:PRO:O	1.94	0.67
2:Cw:13:ARG:HB3	2:Cw:27:GLN:OE1	1.95	0.67
2:Cw:209:VAL:H	2:Cw:210:PRO:CD	2.07	0.67
3:D2:56:ILE:HG13	3:D2:74:PHE:CE1	2.29	0.67
3:D4:56:ILE:HG13	3:D4:74:PHE:CE1	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:56:ILE:HG13	3:DB:74:PHE:CE1	2.29	0.67
3:DD:8:VAL:HB	3:DD:10:GLU:HG2	1.77	0.67
3:DH:66:ASN:HA	3:DH:190:ALA:HB1	1.77	0.67
3:DH:99:GLN:OE1	3:DH:217:ARG:HD2	1.93	0.67
3:DJ:8:VAL:HB	3:DJ:10:GLU:HG2	1.77	0.67
3:DJ:99:GLN:OE1	3:DJ:217:ARG:HD2	1.93	0.67
3:DK:66:ASN:HA	3:DK:190:ALA:HB1	1.77	0.67
3:DN:116:THR:CG2	3:DN:191:LEU:HD21	2.21	0.67
3:Db:56:ILE:HG13	3:Db:74:PHE:CE1	2.29	0.67
3:Df:56:ILE:O	3:Df:59:LYS:HG2	1.94	0.67
3:Dl:99:GLN:OE1	3:Dl:217:ARG:HD2	1.93	0.67
3:Dn:56:ILE:O	3:Dn:59:LYS:HG2	1.94	0.67
3:EB:99:GLN:OE1	3:EB:217:ARG:HD2	1.93	0.67
1:A0:103:TRP:HB2	1:A0:198:THR:CG2	2.23	0.67
1:A6:40:VAL:HB	1:A6:68:TRP:CZ2	2.30	0.67
1:A8:103:TRP:HB2	1:A8:198:THR:CG2	2.23	0.67
1:A9:57:LEU:HD21	1:A9:195:ILE:HG12	1.76	0.67
1:AB:40:VAL:HB	1:AB:68:TRP:CZ2	2.30	0.67
1:AB:88:PHE:CE2	1:AB:146:ILE:HD13	2.28	0.67
1:AC:110:GLY:H	1:AD:242:ASN:HD22	1.43	0.67
1:AK:242:ASN:HD22	1:AO:110:GLY:H	1.43	0.67
1:AO:164:TRP:HZ2	1:AO:187:LEU:HD21	1.58	0.67
1:AO:210:ARG:NH1	3:DO:14:PHE:CE1	2.63	0.67
1:AR:110:GLY:H	1:Ao:242:ASN:HD22	1.42	0.67
1:AW:130:ILE:CD1	1:AW:135:VAL:HG12	2.25	0.67
1:AX:130:ILE:CD1	1:AX:135:VAL:HG12	2.24	0.67
1:Aa:210:ARG:NH1	3:Dc:14:PHE:CE1	2.63	0.67
1:Ad:110:GLY:H	1:Ae:242:ASN:HD22	1.43	0.67
1:Ag:57:LEU:HD21	1:Ag:195:ILE:HG12	1.76	0.67
1:Ah:103:TRP:HB2	1:Ah:198:THR:CG2	2.23	0.67
1:Ai:210:ARG:NH1	3:Dk:14:PHE:CE1	2.63	0.67
1:An:57:LEU:HD21	1:An:195:ILE:HG12	1.76	0.67
1:BC:210:ARG:NH1	3:Dr:14:PHE:CE1	2.63	0.67
1:BD:130:ILE:CD1	1:BD:135:VAL:HG12	2.24	0.67
1:BG:57:LEU:HD21	1:BG:195:ILE:HG12	1.76	0.67
1:BI:210:ARG:NH1	3:EE:14:PHE:CE1	2.63	0.67
2:C0:223:ASN:H	2:C0:223:ASN:HD22	1.41	0.67
2:C9:13:ARG:HB3	2:C9:27:GLN:OE1	1.94	0.67
2:CI:212:THR:HG21	3:DX:188:LEU:HD22	1.75	0.67
2:CM:58:LEU:HD13	2:CM:94:PHE:CA	2.23	0.67
2:CM:209:VAL:O	2:CM:209:VAL:HG12	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CN:115:ASN:ND2	3:D2:190:ALA:O	2.26	0.67
2:CS:209:VAL:H	2:CS:210:PRO:CD	2.07	0.67
2:CU:13:ARG:HB3	2:CU:27:GLN:OE1	1.95	0.67
2:CU:20:GLY:HA2	2:CU:56:PRO:O	1.94	0.67
2:CV:13:ARG:HB3	2:CV:27:GLN:OE1	1.95	0.67
2:CY:120:HIS:CD2	2:CY:205:PRO:HD2	2.29	0.67
2:CY:212:THR:HG21	3:DZ:188:LEU:HD22	1.75	0.67
2:CZ:209:VAL:H	2:CZ:210:PRO:CD	2.07	0.67
2:Cc:120:HIS:CD2	2:Cc:205:PRO:HD2	2.29	0.67
2:Cc:209:VAL:O	2:Cc:209:VAL:HG12	1.94	0.67
2:Cd:120:HIS:CD2	2:Cd:205:PRO:HD2	2.30	0.67
2:Ck:20:GLY:HA2	2:Ck:56:PRO:O	1.94	0.67
2:Cm:120:HIS:CD2	2:Cm:205:PRO:HD2	2.29	0.67
2:Cn:115:ASN:ND2	3:De:190:ALA:O	2.26	0.67
2:Co:13:ARG:HB3	2:Co:27:GLN:OE1	1.94	0.67
2:Co:209:VAL:O	2:Co:209:VAL:HG12	1.94	0.67
2:Cq:58:LEU:HD13	2:Cq:94:PHE:CA	2.23	0.67
2:Cq:212:THR:HG21	3:DY:188:LEU:HD22	1.75	0.67
2:Cr:209:VAL:O	2:Cr:209:VAL:HG12	1.94	0.67
2:Cr:223:ASN:H	2:Cr:223:ASN:HD22	1.41	0.67
2:Cv:212:THR:HG21	3:Dd:188:LEU:HD22	1.75	0.67
3:D3:66:ASN:HA	3:D3:190:ALA:HB1	1.77	0.67
3:D8:66:ASN:HA	3:D8:190:ALA:HB1	1.77	0.67
3:DA:66:ASN:HA	3:DA:190:ALA:HB1	1.77	0.67
3:DC:8:VAL:HB	3:DC:10:GLU:HG2	1.77	0.67
3:DD:56:ILE:O	3:DD:59:LYS:HG2	1.94	0.67
3:DD:66:ASN:HA	3:DD:190:ALA:HB1	1.77	0.67
3:DG:99:GLN:OE1	3:DG:217:ARG:HD2	1.93	0.67
3:DI:19:PRO:O	3:DI:20:ASP:HB2	1.94	0.67
3:DO:99:GLN:OE1	3:DO:217:ARG:HD2	1.93	0.67
3:DP:99:GLN:OE1	3:DP:217:ARG:HD2	1.93	0.67
3:DS:119:LYS:HG2	3:DS:147:ASP:OD2	1.93	0.67
3:DY:8:VAL:HB	3:DY:10:GLU:HG2	1.77	0.67
3:Dc:19:PRO:O	3:Dc:20:ASP:HB2	1.94	0.67
3:Df:119:LYS:HG2	3:Df:147:ASP:OD2	1.93	0.67
3:Dp:8:VAL:HB	3:Dp:10:GLU:HG2	1.77	0.67
3:Dp:66:ASN:HA	3:Dp:190:ALA:HB1	1.77	0.67
3:Dr:66:ASN:HA	3:Dr:190:ALA:HB1	1.77	0.67
3:EC:56:ILE:O	3:EC:59:LYS:HG2	1.94	0.67
3:EE:19:PRO:O	3:EE:20:ASP:HB2	1.94	0.67
1:A4:210:ARG:NH1	3:D5:14:PHE:CE1	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:40:VAL:HB	1:A5:68:TRP:CZ2	2.30	0.67
1:A8:110:GLY:H	1:A9:242:ASN:HD22	1.43	0.67
1:A9:164:TRP:HZ2	1:A9:187:LEU:HD21	1.58	0.67
1:A9:210:ARG:NH1	3:Da:14:PHE:CE1	2.63	0.67
1:AA:210:ARG:NH1	3:DA:14:PHE:CE1	2.63	0.67
1:AB:57:LEU:HD21	1:AB:195:ILE:HG12	1.76	0.67
1:AC:57:LEU:HD21	1:AC:195:ILE:HG12	1.76	0.67
1:AE:164:TRP:HZ2	1:AE:187:LEU:HD21	1.58	0.67
1:AG:130:ILE:CD1	1:AG:135:VAL:HG12	2.24	0.67
1:AH:76:THR:HB	1:AH:220:CYS:HB2	1.74	0.67
1:AI:82:LEU:HD11	1:AI:211:TYR:CD2	2.26	0.67
1:AK:40:VAL:HB	1:AK:68:TRP:CZ2	2.30	0.67
1:AK:77:TYR:HD1	1:AK:168:PRO:HA	1.60	0.67
1:AL:57:LEU:HD21	1:AL:195:ILE:HG12	1.76	0.67
1:AM:210:ARG:NH1	3:DM:14:PHE:CE1	2.63	0.67
1:AW:57:LEU:HD21	1:AW:195:ILE:HG12	1.76	0.67
1:AY:40:VAL:HB	1:AY:68:TRP:CZ2	2.30	0.67
1:AZ:210:ARG:NH1	3:D0:14:PHE:CE1	2.63	0.67
1:Ab:88:PHE:HE2	1:Ab:146:ILE:HG21	1.58	0.67
1:Ac:40:VAL:HB	1:Ac:68:TRP:CZ2	2.30	0.67
1:Ad:130:ILE:CD1	1:Ad:135:VAL:HG12	2.24	0.67
1:Ae:83:GLU:HG2	1:Ae:157:SER:HA	1.76	0.67
1:Ah:57:LEU:HD21	1:Ah:195:ILE:HG12	1.76	0.67
1:Al:164:TRP:HZ2	1:Al:187:LEU:HD21	1.58	0.67
1:Ao:40:VAL:HB	1:Ao:68:TRP:CZ2	2.30	0.67
1:BG:110:GLY:H	1:BH:242:ASN:HD22	1.43	0.67
1:BH:130:ILE:CD1	1:BH:135:VAL:HG12	2.24	0.67
2:C1:20:GLY:HA2	2:C1:56:PRO:O	1.94	0.67
2:C1:223:ASN:HD22	2:C1:223:ASN:H	1.41	0.67
2:C2:49:ASP:HB2	3:D3:161:SER:HB3	1.76	0.67
2:CB:13:ARG:HB3	2:CB:27:GLN:OE1	1.95	0.67
2:CB:223:ASN:H	2:CB:223:ASN:HD22	1.41	0.67
2:CD:115:ASN:C	3:D7:119:LYS:HZ3	2.01	0.67
2:CE:209:VAL:H	2:CE:210:PRO:CD	2.07	0.67
2:CI:49:ASP:HB2	3:DJ:161:SER:HB3	1.76	0.67
2:CI:152:TYR:CZ	3:DI:60:PRO:HD3	2.28	0.67
2:CI:209:VAL:HG12	2:CI:209:VAL:O	1.94	0.67
2:CU:212:THR:HG21	3:Dg:188:LEU:HD22	1.75	0.67
2:Ca:120:HIS:CD2	2:Ca:205:PRO:HD2	2.29	0.67
2:Cb:115:ASN:C	3:DT:119:LYS:HZ3	2.02	0.67
2:Ch:120:HIS:CD2	2:Ch:205:PRO:HD2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cj:120:HIS:CD2	2:Cj:205:PRO:HD2	2.29	0.67
2:Cn:13:ARG:HB3	2:Cn:27:GLN:OE1	1.94	0.67
2:Cq:13:ARG:HB3	2:Cq:27:GLN:OE1	1.95	0.67
2:Cx:115:ASN:ND2	3:Do:190:ALA:O	2.26	0.67
3:D1:66:ASN:HA	3:D1:190:ALA:HB1	1.77	0.67
3:D4:119:LYS:HG2	3:D4:147:ASP:OD2	1.93	0.67
3:D5:66:ASN:HA	3:D5:190:ALA:HB1	1.77	0.67
3:D6:66:ASN:HA	3:D6:190:ALA:HB1	1.77	0.67
3:D7:56:ILE:O	3:D7:59:LYS:HG2	1.94	0.67
3:DF:8:VAL:HB	3:DF:10:GLU:HG2	1.77	0.67
3:DF:19:PRO:O	3:DF:20:ASP:HB2	1.94	0.67
3:DM:19:PRO:O	3:DM:20:ASP:HB2	1.94	0.67
3:DN:99:GLN:OE1	3:DN:217:ARG:HD2	1.93	0.67
3:DP:56:ILE:HG13	3:DP:74:PHE:CE1	2.29	0.67
3:DV:56:ILE:O	3:DV:59:LYS:HG2	1.94	0.67
3:DV:66:ASN:HA	3:DV:190:ALA:HB1	1.77	0.67
3:DW:19:PRO:O	3:DW:20:ASP:HB2	1.94	0.67
3:DX:8:VAL:HB	3:DX:10:GLU:HG2	1.77	0.67
3:Da:56:ILE:O	3:Da:59:LYS:HG2	1.94	0.67
3:Db:19:PRO:O	3:Db:20:ASP:HB2	1.94	0.67
3:Db:56:ILE:O	3:Db:59:LYS:HG2	1.94	0.67
3:Dd:56:ILE:HG13	3:Dd:74:PHE:CE1	2.29	0.67
3:De:8:VAL:HB	3:De:10:GLU:HG2	1.77	0.67
3:Dk:66:ASN:HA	3:Dk:190:ALA:HB1	1.77	0.67
3:Dl:56:ILE:HG13	3:Dl:74:PHE:CE1	2.29	0.67
3:Dm:19:PRO:O	3:Dm:20:ASP:HB2	1.94	0.67
3:Dn:8:VAL:HB	3:Dn:10:GLU:HG2	1.77	0.67
3:Dn:19:PRO:O	3:Dn:20:ASP:HB2	1.94	0.67
3:Do:19:PRO:O	3:Do:20:ASP:HB2	1.94	0.67
1:A0:88:PHE:HE2	1:A0:146:ILE:HG21	1.58	0.67
1:A4:83:GLU:HG2	1:A4:157:SER:HA	1.76	0.67
1:A5:210:ARG:NH1	3:D6:14:PHE:CE1	2.63	0.67
1:A7:77:TYR:HD1	1:A7:168:PRO:HA	1.60	0.67
1:A7:210:ARG:NH1	3:D8:14:PHE:CE1	2.63	0.67
1:A9:130:ILE:CD1	1:A9:135:VAL:HG12	2.24	0.67
1:AD:210:ARG:NH1	3:DD:14:PHE:CE1	2.63	0.67
1:AE:210:ARG:NH1	3:DE:14:PHE:CE1	2.63	0.67
1:AK:210:ARG:NH1	3:DK:14:PHE:CE1	2.63	0.67
1:AP:40:VAL:HB	1:AP:68:TRP:CZ2	2.30	0.67
1:AQ:88:PHE:HE2	1:AQ:146:ILE:HG21	1.58	0.67
1:AV:77:TYR:HD1	1:AV:168:PRO:HA	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:77:TYR:HD1	1:AW:168:PRO:HA	1.60	0.67
1:AZ:40:VAL:HB	1:AZ:68:TRP:CZ2	2.30	0.67
1:AZ:77:TYR:HD1	1:AZ:168:PRO:HA	1.60	0.67
1:Ae:76:THR:HB	1:Ae:220:CYS:HB2	1.75	0.67
1:Ah:40:VAL:HB	1:Ah:68:TRP:CZ2	2.30	0.67
1:Am:110:GLY:H	1:BA:242:ASN:HD22	1.43	0.67
1:BA:40:VAL:HB	1:BA:68:TRP:CZ2	2.30	0.67
1:BB:40:VAL:HB	1:BB:68:TRP:CZ2	2.30	0.67
1:BE:242:ASN:HD22	1:BI:110:GLY:H	1.43	0.67
2:C4:212:THR:HG21	3:EC:188:LEU:HD22	1.75	0.67
2:C5:13:ARG:HB3	2:C5:27:GLN:OE1	1.95	0.67
2:C7:13:ARG:HB3	2:C7:27:GLN:OE1	1.95	0.67
2:CB:120:HIS:CD2	2:CB:205:PRO:HD2	2.30	0.67
2:CN:13:ARG:HB3	2:CN:27:GLN:OE1	1.95	0.67
2:CN:49:ASP:HB2	3:DO:161:SER:HB3	1.76	0.67
2:CN:223:ASN:H	2:CN:223:ASN:HD22	1.41	0.67
2:CX:13:ARG:HB3	2:CX:27:GLN:OE1	1.94	0.67
2:Cc:223:ASN:H	2:Cc:223:ASN:HD22	1.41	0.67
2:Cg:13:ARG:HB3	2:Cg:27:GLN:OE1	1.94	0.67
2:Cg:152:TYR:CZ	3:Dg:60:PRO:HD3	2.28	0.67
2:Ch:13:ARG:HB3	2:Ch:27:GLN:OE1	1.95	0.67
2:Co:20:GLY:HA2	2:Co:56:PRO:O	1.94	0.67
2:Cu:223:ASN:H	2:Cu:223:ASN:HD22	1.41	0.67
2:Cv:115:ASN:C	3:Dd:119:LYS:HZ3	2.02	0.67
2:Cw:209:VAL:O	2:Cw:209:VAL:HG12	1.94	0.67
3:D0:66:ASN:HA	3:D0:190:ALA:HB1	1.77	0.67
3:D1:56:ILE:O	3:D1:59:LYS:HG2	1.94	0.67
3:D2:66:ASN:HA	3:D2:190:ALA:HB1	1.77	0.67
3:D4:66:ASN:HA	3:D4:190:ALA:HB1	1.77	0.67
3:D5:19:PRO:O	3:D5:20:ASP:HB2	1.94	0.67
3:D8:8:VAL:HB	3:D8:10:GLU:HG2	1.77	0.67
3:DC:56:ILE:O	3:DC:59:LYS:HG2	1.94	0.67
3:DI:66:ASN:HA	3:DI:190:ALA:HB1	1.77	0.67
3:DL:19:PRO:O	3:DL:20:ASP:HB2	1.94	0.67
3:DU:19:PRO:O	3:DU:20:ASP:HB2	1.94	0.67
3:DY:19:PRO:O	3:DY:20:ASP:HB2	1.94	0.67
3:DZ:66:ASN:HA	3:DZ:190:ALA:HB1	1.77	0.67
3:DZ:119:LYS:HG2	3:DZ:147:ASP:OD2	1.93	0.67
3:EB:8:VAL:HB	3:EB:10:GLU:HG2	1.77	0.67
1:A1:130:ILE:CD1	1:A1:135:VAL:HG12	2.24	0.67
1:A4:40:VAL:HB	1:A4:68:TRP:CZ2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:130:ILE:CD1	1:A4:135:VAL:HG12	2.24	0.67
1:AC:88:PHE:HE2	1:AC:146:ILE:HG21	1.58	0.67
1:AF:40:VAL:HB	1:AF:68:TRP:CZ2	2.30	0.67
1:AF:88:PHE:HE2	1:AF:146:ILE:HG21	1.58	0.67
1:AJ:77:TYR:HD1	1:AJ:168:PRO:HA	1.60	0.67
1:AL:82:LEU:HD11	1:AL:211:TYR:CD2	2.26	0.67
1:AL:210:ARG:NH1	3:DL:14:PHE:CE1	2.63	0.67
1:AP:83:GLU:HG2	1:AP:157:SER:HA	1.76	0.67
1:AS:77:TYR:HD1	1:AS:168:PRO:HA	1.60	0.67
1:AT:210:ARG:NH1	3:DU:14:PHE:CE1	2.63	0.67
1:AX:88:PHE:HE2	1:AX:146:ILE:HG21	1.58	0.67
1:Ag:210:ARG:NH1	3:Di:14:PHE:CE1	2.63	0.67
1:Ai:82:LEU:HD11	1:Ai:211:TYR:CD2	2.26	0.67
1:Aj:110:GLY:H	1:Ak:242:ASN:HD22	1.43	0.67
1:Ak:110:GLY:H	1:Al:242:ASN:HD22	1.43	0.67
1:BB:57:LEU:HD21	1:BB:195:ILE:HG12	1.76	0.67
1:BE:57:LEU:HD21	1:BE:195:ILE:HG12	1.76	0.67
1:BE:210:ARG:NH1	3:EA:14:PHE:CE1	2.63	0.67
1:BG:210:ARG:NH1	3:EC:14:PHE:CE1	2.63	0.67
1:BH:57:LEU:HD21	1:BH:195:ILE:HG12	1.76	0.67
1:BH:88:PHE:HE2	1:BH:146:ILE:HG21	1.58	0.67
2:C3:49:ASP:HB2	3:DZ:161:SER:HB3	1.76	0.67
2:C6:13:ARG:HB3	2:C6:27:GLN:OE1	1.95	0.67
2:C9:20:GLY:HA2	2:C9:56:PRO:O	1.94	0.67
2:C9:209:VAL:H	2:C9:210:PRO:CD	2.07	0.67
2:CE:115:ASN:C	3:DF:119:LYS:HZ3	2.02	0.67
2:CE:209:VAL:O	2:CE:209:VAL:HG12	1.94	0.67
2:CH:20:GLY:HA2	2:CH:56:PRO:O	1.94	0.67
2:CH:115:ASN:C	3:Ds:119:LYS:HZ3	2.03	0.67
2:CH:212:THR:HG21	3:Ds:188:LEU:HD22	1.75	0.67
2:CK:58:LEU:HD13	2:CK:94:PHE:CA	2.23	0.67
2:CM:20:GLY:HA2	2:CM:56:PRO:O	1.94	0.67
2:CT:209:VAL:HG12	2:CT:209:VAL:O	1.94	0.67
2:CW:13:ARG:HB3	2:CW:27:GLN:OE1	1.94	0.67
2:CZ:120:HIS:CD2	2:CZ:205:PRO:HD2	2.29	0.67
2:Ca:20:GLY:HA2	2:Ca:56:PRO:O	1.94	0.67
2:Cb:209:VAL:O	2:Cb:209:VAL:HG12	1.94	0.67
2:Cf:209:VAL:H	2:Cf:210:PRO:CD	2.07	0.67
2:Cm:58:LEU:HD13	2:Cm:94:PHE:CA	2.23	0.67
2:Cm:135:THR:HB	2:Cm:139:ALA:HA	1.77	0.67
2:Cm:209:VAL:O	2:Cm:209:VAL:HG12	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cp:58:LEU:HD13	2:Cp:94:PHE:CA	2.23	0.67
2:Cr:120:HIS:CD2	2:Cr:205:PRO:HD2	2.29	0.67
2:Cs:13:ARG:HB3	2:Cs:27:GLN:OE1	1.95	0.67
2:Cu:209:VAL:HG12	2:Cu:209:VAL:O	1.94	0.67
2:Cu:212:THR:HG21	3:D5:188:LEU:HD22	1.75	0.67
2:Cx:223:ASN:H	2:Cx:223:ASN:HD22	1.41	0.67
3:D6:116:THR:CG2	3:D6:191:LEU:HD21	2.21	0.67
3:DR:8:VAL:HB	3:DR:10:GLU:HG2	1.77	0.67
3:Da:99:GLN:OE1	3:Da:217:ARG:HD2	1.93	0.67
3:Db:8:VAL:HB	3:Db:10:GLU:HG2	1.77	0.67
3:Dc:56:ILE:O	3:Dc:59:LYS:HG2	1.94	0.67
3:De:56:ILE:O	3:De:59:LYS:HG2	1.94	0.67
3:Dm:56:ILE:HG13	3:Dm:74:PHE:CE1	2.29	0.67
3:ED:66:ASN:HA	3:ED:190:ALA:HB1	1.77	0.67
1:A2:57:LEU:HD21	1:A2:195:ILE:HG12	1.76	0.67
1:A3:210:ARG:NH1	3:D4:14:PHE:CE1	2.63	0.67
1:A7:164:TRP:HZ2	1:A7:187:LEU:HD21	1.58	0.67
1:AD:88:PHE:HE2	1:AD:146:ILE:HG21	1.58	0.67
1:AG:57:LEU:HD21	1:AG:195:ILE:HG12	1.76	0.67
1:AI:40:VAL:HB	1:AI:68:TRP:CZ2	2.30	0.67
1:AJ:88:PHE:HE2	1:AJ:146:ILE:HG21	1.58	0.67
1:AM:82:LEU:HD11	1:AM:211:TYR:CD2	2.26	0.67
1:AQ:210:ARG:NH1	3:DQ:14:PHE:CE1	2.63	0.67
1:AT:57:LEU:HD21	1:AT:195:ILE:HG12	1.76	0.67
1:AU:130:ILE:CD1	1:AU:135:VAL:HG12	2.24	0.67
1:AU:210:ARG:NH1	3:DV:14:PHE:CE1	2.63	0.67
1:AV:40:VAL:HB	1:AV:68:TRP:CZ2	2.30	0.67
1:AV:210:ARG:NH1	3:DW:14:PHE:CE1	2.63	0.67
1:Aa:40:VAL:HB	1:Aa:68:TRP:CZ2	2.30	0.67
1:Ad:210:ARG:NH1	3:Df:14:PHE:CE1	2.63	0.67
1:Ag:130:ILE:CD1	1:Ag:135:VAL:HG12	2.24	0.67
1:Al:40:VAL:HB	1:Al:68:TRP:CZ2	2.30	0.67
1:Am:76:THR:HB	1:Am:220:CYS:HB2	1.74	0.67
1:An:40:VAL:HB	1:An:68:TRP:CZ2	2.30	0.67
1:An:77:TYR:HD1	1:An:168:PRO:HA	1.60	0.67
1:BA:88:PHE:HE2	1:BA:146:ILE:HG21	1.58	0.67
1:BE:77:TYR:HD1	1:BE:168:PRO:HA	1.60	0.67
1:BE:83:GLU:HG2	1:BE:157:SER:HA	1.76	0.67
1:BF:40:VAL:HB	1:BF:68:TRP:CZ2	2.30	0.67
1:BH:210:ARG:NH1	3:ED:14:PHE:CE1	2.63	0.67
2:C0:209:VAL:O	2:C0:209:VAL:HG12	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:13:ARG:HB3	2:C2:27:GLN:OE1	1.94	0.67
2:C2:120:HIS:CD2	2:C2:205:PRO:HD2	2.29	0.67
2:C2:135:THR:HB	2:C2:139:ALA:HA	1.77	0.67
2:C8:212:THR:HG21	3:D9:188:LEU:HD22	1.75	0.67
2:CA:115:ASN:ND2	3:DW:190:ALA:O	2.26	0.67
2:CO:115:ASN:C	3:DP:119:LYS:HZ3	2.03	0.67
2:CR:209:VAL:H	2:CR:210:PRO:CD	2.07	0.67
2:CW:120:HIS:CD2	2:CW:205:PRO:HD2	2.29	0.67
2:CX:209:VAL:O	2:CX:209:VAL:HG12	1.94	0.67
2:CY:49:ASP:HB2	3:DU:161:SER:HB3	1.76	0.67
2:Cb:49:ASP:HB2	3:Dc:161:SER:HB3	1.76	0.67
2:Ce:209:VAL:O	2:Ce:209:VAL:HG12	1.94	0.67
2:Cf:13:ARG:HB3	2:Cf:27:GLN:OE1	1.94	0.67
2:Cg:212:THR:HG21	3:D3:188:LEU:HD22	1.75	0.67
2:Cg:223:ASN:H	2:Cg:223:ASN:HD22	1.41	0.67
2:Cl:209:VAL:H	2:Cl:210:PRO:CD	2.07	0.67
2:Cm:212:THR:HG21	3:DD:188:LEU:HD22	1.75	0.67
2:Ct:209:VAL:H	2:Ct:210:PRO:CD	2.07	0.67
2:Cw:152:TYR:CZ	3:ED:60:PRO:HD3	2.28	0.67
3:D6:8:VAL:HB	3:D6:10:GLU:HG2	1.77	0.67
3:D7:66:ASN:HA	3:D7:190:ALA:HB1	1.77	0.67
3:DB:56:ILE:O	3:DB:59:LYS:HG2	1.94	0.67
3:DG:19:PRO:O	3:DG:20:ASP:HB2	1.94	0.67
3:DK:8:VAL:HB	3:DK:10:GLU:HG2	1.77	0.67
3:DP:8:VAL:HB	3:DP:10:GLU:HG2	1.77	0.67
3:DW:66:ASN:HA	3:DW:190:ALA:HB1	1.77	0.67
3:DX:56:ILE:O	3:DX:59:LYS:HG2	1.94	0.67
3:Dn:66:ASN:HA	3:Dn:190:ALA:HB1	1.77	0.67
3:Ds:66:ASN:HA	3:Ds:190:ALA:HB1	1.77	0.67
3:ED:56:ILE:O	3:ED:59:LYS:HG2	1.94	0.67
3:EE:8:VAL:HB	3:EE:10:GLU:HG2	1.77	0.67
1:A1:88:PHE:CZ	1:A1:205:GLY:HA3	2.30	0.66
1:A3:110:GLY:H	1:A4:242:ASN:HD22	1.43	0.66
1:A6:210:ARG:NH1	3:D7:14:PHE:CE1	2.63	0.66
1:A8:130:ILE:CD1	1:A8:135:VAL:HG12	2.24	0.66
1:AI:77:TYR:HD1	1:AI:168:PRO:HA	1.60	0.66
1:AI:88:PHE:CZ	1:AI:205:GLY:HA3	2.30	0.66
1:AI:113:THR:HB	1:AJ:240:PRO:O	1.93	0.66
1:AM:130:ILE:CD1	1:AM:135:VAL:HG12	2.25	0.66
1:AN:110:GLY:H	1:AO:242:ASN:HD22	1.43	0.66
1:AN:210:ARG:NH1	3:DN:14:PHE:CE1	2.63	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:57:LEU:HD21	1:AO:195:ILE:HG12	1.76	0.66
1:AP:88:PHE:CZ	1:AP:205:GLY:HA3	2.31	0.66
1:AS:210:ARG:NH1	3:DT:14:PHE:CE1	2.63	0.66
1:AT:88:PHE:CZ	1:AT:205:GLY:HA3	2.31	0.66
1:AT:110:GLY:H	1:AU:242:ASN:HD22	1.43	0.66
1:AU:88:PHE:HE2	1:AU:146:ILE:HG21	1.58	0.66
1:AY:210:ARG:NH1	3:DZ:14:PHE:CE1	2.63	0.66
1:Aa:82:LEU:HD11	1:Aa:211:TYR:CD2	2.26	0.66
1:Ab:77:TYR:HD1	1:Ab:168:PRO:HA	1.60	0.66
1:Ab:210:ARG:NH1	3:Dd:14:PHE:CE1	2.63	0.66
1:Ae:40:VAL:HB	1:Ae:68:TRP:CZ2	2.30	0.66
1:Ae:88:PHE:CZ	1:Ae:205:GLY:HA3	2.30	0.66
1:Ae:210:ARG:NH1	3:Dg:14:PHE:CE1	2.63	0.66
1:Ag:77:TYR:HD1	1:Ag:168:PRO:HA	1.60	0.66
1:Aj:164:TRP:HZ2	1:Aj:187:LEU:HD21	1.58	0.66
1:Ak:130:ILE:CD1	1:Ak:135:VAL:HG12	2.24	0.66
2:C1:49:ASP:HB2	3:D2:161:SER:HB3	1.76	0.66
2:C6:209:VAL:O	2:C6:209:VAL:HG12	1.94	0.66
2:C8:49:ASP:HB2	3:D4:161:SER:HB3	1.76	0.66
2:C8:135:THR:HB	2:C8:139:ALA:HA	1.78	0.66
2:C8:209:VAL:H	2:C8:210:PRO:CD	2.07	0.66
2:C9:209:VAL:O	2:C9:209:VAL:HG12	1.94	0.66
2:CF:13:ARG:HB3	2:CF:27:GLN:OE1	1.94	0.66
2:CJ:49:ASP:HB2	3:DF:161:SER:HB3	1.76	0.66
2:CJ:120:HIS:CD2	2:CJ:205:PRO:HD2	2.29	0.66
2:CP:120:HIS:CD2	2:CP:205:PRO:HD2	2.29	0.66
2:CP:212:THR:HG21	3:D1:188:LEU:HD22	1.75	0.66
2:CQ:13:ARG:HB3	2:CQ:27:GLN:OE1	1.95	0.66
2:CU:120:HIS:CD2	2:CU:205:PRO:HD2	2.29	0.66
2:Cd:135:THR:HB	2:Cd:139:ALA:HA	1.77	0.66
2:Cg:115:ASN:ND2	3:D3:190:ALA:O	2.26	0.66
2:Cn:223:ASN:H	2:Cn:223:ASN:HD22	1.41	0.66
2:Cp:115:ASN:C	3:D0:119:LYS:HZ3	2.02	0.66
2:Cr:49:ASP:HB2	3:Ds:161:SER:HB3	1.76	0.66
2:Cs:223:ASN:HD22	2:Cs:223:ASN:H	1.41	0.66
2:Ct:209:VAL:HG12	2:Ct:209:VAL:O	1.94	0.66
2:Cu:120:HIS:CD2	2:Cu:205:PRO:HD2	2.29	0.66
2:Cx:120:HIS:CD2	2:Cx:205:PRO:HD2	2.29	0.66
3:D1:8:VAL:HB	3:D1:10:GLU:HG2	1.77	0.66
3:D3:56:ILE:O	3:D3:59:LYS:HG2	1.94	0.66
3:D8:56:ILE:O	3:D8:59:LYS:HG2	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:19:PRO:O	3:DA:20:ASP:HB2	1.94	0.66
3:DE:19:PRO:O	3:DE:20:ASP:HB2	1.94	0.66
3:DN:19:PRO:O	3:DN:20:ASP:HB2	1.94	0.66
3:DR:66:ASN:HA	3:DR:190:ALA:HB1	1.77	0.66
3:DZ:116:THR:CG2	3:DZ:191:LEU:HD21	2.21	0.66
3:Dg:56:ILE:O	3:Dg:59:LYS:HG2	1.94	0.66
3:Di:66:ASN:HA	3:Di:190:ALA:HB1	1.77	0.66
3:Dm:8:VAL:HB	3:Dm:10:GLU:HG2	1.77	0.66
3:Do:56:ILE:HG13	3:Do:74:PHE:CE1	2.29	0.66
3:Ds:56:ILE:O	3:Ds:59:LYS:HG2	1.94	0.66
3:EA:56:ILE:O	3:EA:59:LYS:HG2	1.94	0.66
3:ED:19:PRO:O	3:ED:20:ASP:HB2	1.94	0.66
3:EE:56:ILE:O	3:EE:59:LYS:HG2	1.94	0.66
1:A0:40:VAL:HB	1:A0:68:TRP:CZ2	2.30	0.66
1:A1:57:LEU:HD21	1:A1:195:ILE:HG12	1.76	0.66
1:A2:110:GLY:H	1:AY:242:ASN:HD22	1.43	0.66
1:A5:57:LEU:HD21	1:A5:195:ILE:HG12	1.76	0.66
1:A6:77:TYR:HD1	1:A6:168:PRO:HA	1.60	0.66
1:A6:130:ILE:CD1	1:A6:135:VAL:HG12	2.24	0.66
1:A8:210:ARG:NH1	3:D9:14:PHE:CE1	2.63	0.66
1:AC:130:ILE:CD1	1:AC:135:VAL:HG12	2.24	0.66
1:AE:40:VAL:HB	1:AE:68:TRP:CZ2	2.30	0.66
1:AG:210:ARG:NH1	3:DG:14:PHE:CE1	2.63	0.66
1:AH:88:PHE:CZ	1:AH:205:GLY:HA3	2.30	0.66
1:AN:40:VAL:HB	1:AN:68:TRP:CZ2	2.30	0.66
1:AW:110:GLY:H	1:AX:242:ASN:HD22	1.43	0.66
1:AW:210:ARG:NH1	3:DX:14:PHE:CE1	2.63	0.66
1:AX:164:TRP:HZ2	1:AX:187:LEU:HD21	1.58	0.66
1:AY:77:TYR:HD1	1:AY:168:PRO:HA	1.60	0.66
1:Ab:83:GLU:HG2	1:Ab:157:SER:HA	1.76	0.66
1:Ab:130:ILE:CD1	1:Ab:135:VAL:HG12	2.24	0.66
1:Ac:83:GLU:HG2	1:Ac:157:SER:HA	1.76	0.66
1:Ac:88:PHE:CZ	1:Ac:205:GLY:HA3	2.30	0.66
1:Af:57:LEU:HD21	1:Af:195:ILE:HG12	1.76	0.66
1:Af:210:ARG:NH1	3:Dh:14:PHE:CE1	2.63	0.66
1:Ah:77:TYR:HD1	1:Ah:168:PRO:HA	1.60	0.66
1:Aj:210:ARG:NH1	3:Di:14:PHE:CE1	2.63	0.66
1:Al:57:LEU:HD21	1:Al:195:ILE:HG12	1.76	0.66
1:Am:57:LEU:HD21	1:Am:195:ILE:HG12	1.76	0.66
1:Am:83:GLU:HG2	1:Am:157:SER:HA	1.76	0.66
1:An:210:ARG:NH1	3:Db:14:PHE:CE1	2.63	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:130:ILE:CD1	1:BE:135:VAL:HG12	2.24	0.66
1:BF:130:ILE:CD1	1:BF:135:VAL:HG12	2.25	0.66
1:BG:77:TYR:HD1	1:BG:168:PRO:HA	1.60	0.66
2:CA:120:HIS:CD2	2:CA:205:PRO:HD2	2.29	0.66
2:CA:223:ASN:H	2:CA:223:ASN:HD22	1.41	0.66
2:CK:120:HIS:CD2	2:CK:205:PRO:HD2	2.29	0.66
2:CN:135:THR:HB	2:CN:139:ALA:HA	1.78	0.66
2:CN:209:VAL:H	2:CN:210:PRO:CD	2.07	0.66
2:CR:120:HIS:CD2	2:CR:205:PRO:HD2	2.29	0.66
2:CW:223:ASN:H	2:CW:223:ASN:HD22	1.41	0.66
2:CY:13:ARG:HB3	2:CY:27:GLN:OE1	1.95	0.66
2:Cd:223:ASN:H	2:Cd:223:ASN:HD22	1.41	0.66
2:Cj:49:ASP:HB2	3:Dk:161:SER:HB3	1.76	0.66
2:Cj:58:LEU:HD13	2:Cj:94:PHE:CA	2.23	0.66
2:Cl:115:ASN:C	3:D8:119:LYS:HZ3	2.02	0.66
2:Cn:120:HIS:CD2	2:Cn:205:PRO:HD2	2.29	0.66
2:Co:223:ASN:H	2:Co:223:ASN:HD22	1.41	0.66
2:Ct:13:ARG:HB3	2:Ct:27:GLN:OE1	1.95	0.66
2:Ct:120:HIS:CD2	2:Ct:205:PRO:HD2	2.29	0.66
2:Cu:13:ARG:HB3	2:Cu:27:GLN:OE1	1.95	0.66
2:Cx:209:VAL:O	2:Cx:209:VAL:HG12	1.94	0.66
3:D0:8:VAL:HB	3:D0:10:GLU:HG2	1.77	0.66
3:D8:56:ILE:HG13	3:D8:74:PHE:CE1	2.29	0.66
3:DC:83:ALA:O	3:DC:86:HIS:HB3	1.96	0.66
3:DK:116:THR:CG2	3:DK:191:LEU:HD21	2.21	0.66
3:DO:8:VAL:HB	3:DO:10:GLU:HG2	1.77	0.66
3:DO:66:ASN:HA	3:DO:190:ALA:HB1	1.76	0.66
3:DR:116:THR:CG2	3:DR:191:LEU:HD21	2.21	0.66
3:DT:8:VAL:HB	3:DT:10:GLU:HG2	1.77	0.66
3:DU:56:ILE:O	3:DU:59:LYS:HG2	1.94	0.66
3:DU:66:ASN:HA	3:DU:190:ALA:HB1	1.77	0.66
3:DU:83:ALA:O	3:DU:86:HIS:HB3	1.96	0.66
3:Dc:119:LYS:HG2	3:Dc:147:ASP:OD2	1.93	0.66
3:Dr:83:ALA:O	3:Dr:86:HIS:HB3	1.96	0.66
1:A1:210:ARG:NH1	3:D2:14:PHE:CE1	2.63	0.66
1:A2:40:VAL:HB	1:A2:68:TRP:CZ2	2.30	0.66
1:A3:40:VAL:HB	1:A3:68:TRP:CZ2	2.30	0.66
1:A5:88:PHE:CZ	1:A5:205:GLY:HA3	2.30	0.66
1:A5:121:LEU:HD21	1:A6:206:GLY:HA3	1.78	0.66
1:A5:187:LEU:CD2	1:A5:188:PRO:HD2	2.25	0.66
1:A9:40:VAL:HB	1:A9:68:TRP:CZ2	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:88:PHE:HE2	1:AA:146:ILE:HG21	1.58	0.66
1:AC:88:PHE:CZ	1:AC:205:GLY:HA3	2.30	0.66
1:AC:164:TRP:HZ2	1:AC:187:LEU:HD21	1.58	0.66
1:AD:88:PHE:CZ	1:AD:205:GLY:HA3	2.31	0.66
1:AL:88:PHE:CZ	1:AL:205:GLY:HA3	2.30	0.66
1:AL:130:ILE:CD1	1:AL:135:VAL:HG12	2.25	0.66
1:AM:110:GLY:H	1:AN:242:ASN:HD22	1.43	0.66
1:AS:88:PHE:CZ	1:AS:205:GLY:HA3	2.30	0.66
1:AT:130:ILE:CD1	1:AT:135:VAL:HG12	2.24	0.66
1:AY:209:LEU:HD13	1:AY:210:ARG:H	1.61	0.66
1:AZ:164:TRP:HZ2	1:AZ:187:LEU:HD21	1.58	0.66
1:Ab:40:VAL:HB	1:Ab:68:TRP:CZ2	2.30	0.66
1:Ac:57:LEU:HD21	1:Ac:195:ILE:HG12	1.76	0.66
1:Ac:121:LEU:HD21	1:Ad:206:GLY:HA3	1.78	0.66
1:Ad:40:VAL:HB	1:Ad:68:TRP:CZ2	2.30	0.66
1:Ae:77:TYR:HD1	1:Ae:168:PRO:HA	1.60	0.66
1:Ah:83:GLU:HG2	1:Ah:157:SER:HA	1.76	0.66
1:Ah:209:LEU:HD13	1:Ah:210:ARG:H	1.61	0.66
1:Ai:77:TYR:HD1	1:Ai:168:PRO:HA	1.60	0.66
1:Aj:88:PHE:CZ	1:Aj:205:GLY:HA3	2.31	0.66
1:Ao:83:GLU:HG2	1:Ao:157:SER:HA	1.76	0.66
1:BB:209:LEU:HD13	1:BB:210:ARG:H	1.61	0.66
1:BD:82:LEU:HD11	1:BD:211:TYR:CD2	2.26	0.66
1:BF:88:PHE:CZ	1:BF:205:GLY:HA3	2.30	0.66
1:BG:164:TRP:HZ2	1:BG:187:LEU:HD21	1.58	0.66
1:BH:121:LEU:HD21	1:BI:206:GLY:HA3	1.78	0.66
1:BI:57:LEU:HD21	1:BI:195:ILE:HG12	1.76	0.66
2:C0:120:HIS:CD2	2:C0:205:PRO:HD2	2.29	0.66
2:C0:209:VAL:H	2:C0:210:PRO:CD	2.07	0.66
2:C2:212:THR:HG21	3:Dh:188:LEU:HD22	1.75	0.66
2:C7:115:ASN:C	3:Dm:119:LYS:HZ3	2.03	0.66
2:CE:13:ARG:HB3	2:CE:27:GLN:OE1	1.94	0.66
2:CF:209:VAL:O	2:CF:209:VAL:HG12	1.94	0.66
2:CI:223:ASN:H	2:CI:223:ASN:HD22	1.41	0.66
2:CJ:13:ARG:HB3	2:CJ:27:GLN:OE1	1.95	0.66
2:CQ:209:VAL:O	2:CQ:209:VAL:HG12	1.94	0.66
2:CX:120:HIS:CD2	2:CX:205:PRO:HD2	2.29	0.66
2:CX:209:VAL:H	2:CX:210:PRO:CD	2.07	0.66
2:Cd:49:ASP:HB2	3:D9:161:SER:HB3	1.76	0.66
2:Cd:115:ASN:ND2	3:D4:190:ALA:O	2.26	0.66
2:Ce:120:HIS:CD2	2:Ce:205:PRO:HD2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cg:58:LEU:HD13	2:Cg:94:PHE:CA	2.23	0.66
2:Ci:58:LEU:HD13	2:Ci:94:PHE:CA	2.23	0.66
2:Ck:13:ARG:HB3	2:Ck:27:GLN:OE1	1.95	0.66
2:Cv:49:ASP:HB2	3:ED:161:SER:HB3	1.76	0.66
2:Cw:223:ASN:H	2:Cw:223:ASN:HD22	1.41	0.66
2:Cx:13:ARG:HB3	2:Cx:27:GLN:OE1	1.95	0.66
3:D0:19:PRO:O	3:D0:20:ASP:HB2	1.94	0.66
3:D0:83:ALA:O	3:D0:86:HIS:HB3	1.96	0.66
3:D5:83:ALA:O	3:D5:86:HIS:HB3	1.96	0.66
3:D9:8:VAL:HB	3:D9:10:GLU:HG2	1.77	0.66
3:DK:56:ILE:O	3:DK:59:LYS:HG2	1.94	0.66
3:DP:19:PRO:O	3:DP:20:ASP:HB2	1.94	0.66
3:DP:56:ILE:O	3:DP:59:LYS:HG2	1.94	0.66
3:DQ:8:VAL:HB	3:DQ:10:GLU:HG2	1.77	0.66
3:DS:19:PRO:O	3:DS:20:ASP:HB2	1.94	0.66
3:DT:66:ASN:HA	3:DT:190:ALA:HB1	1.77	0.66
3:Dd:19:PRO:O	3:Dd:20:ASP:HB2	1.94	0.66
3:Dk:8:VAL:HB	3:Dk:10:GLU:HG2	1.77	0.66
1:A1:40:VAL:HB	1:A1:68:TRP:CZ2	2.30	0.66
1:A2:88:PHE:CZ	1:A2:205:GLY:HA3	2.30	0.66
1:A3:57:LEU:HD21	1:A3:195:ILE:HG12	1.76	0.66
1:A4:88:PHE:CZ	1:A4:205:GLY:HA3	2.30	0.66
1:A4:209:LEU:HD13	1:A4:210:ARG:H	1.61	0.66
1:A6:121:LEU:HD21	1:A7:206:GLY:HA3	1.78	0.66
1:A7:82:LEU:HD11	1:A7:211:TYR:CD2	2.26	0.66
1:AE:82:LEU:HD11	1:AE:211:TYR:CD2	2.26	0.66
1:AE:209:LEU:HD13	1:AE:210:ARG:H	1.61	0.66
1:AG:209:LEU:HD13	1:AG:210:ARG:H	1.61	0.66
1:AJ:210:ARG:NH1	3:DJ:14:PHE:CE1	2.63	0.66
1:AM:77:TYR:HD1	1:AM:168:PRO:HA	1.60	0.66
1:AN:209:LEU:HD13	1:AN:210:ARG:H	1.61	0.66
1:AR:40:VAL:HB	1:AR:68:TRP:CZ2	2.30	0.66
1:AR:210:ARG:NH1	3:DR:14:PHE:CE1	2.63	0.66
1:AT:187:LEU:CD2	1:AT:188:PRO:HD2	2.25	0.66
1:AV:121:LEU:HD21	1:AW:206:GLY:HA3	1.78	0.66
1:AX:40:VAL:HB	1:AX:68:TRP:CZ2	2.30	0.66
1:Ac:210:ARG:NH1	3:De:14:PHE:CE1	2.63	0.66
1:Ag:88:PHE:HE2	1:Ag:146:ILE:HG21	1.58	0.66
1:Ag:209:LEU:HD13	1:Ag:210:ARG:H	1.61	0.66
1:Ah:82:LEU:HD11	1:Ah:211:TYR:CD2	2.26	0.66
1:Ai:83:GLU:HG2	1:Ai:157:SER:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:130:ILE:CD1	1:Am:135:VAL:HG12	2.25	0.66
1:Am:242:ASN:HD22	1:BD:110:GLY:H	1.43	0.66
1:An:130:ILE:CD1	1:An:135:VAL:HG12	2.24	0.66
1:BB:77:TYR:HD1	1:BB:168:PRO:HA	1.60	0.66
1:BC:88:PHE:HE2	1:BC:146:ILE:HG21	1.58	0.66
1:BI:88:PHE:CZ	1:BI:205:GLY:HA3	2.31	0.66
2:C6:120:HIS:CD2	2:C6:205:PRO:HD2	2.29	0.66
2:C7:49:ASP:HB2	3:D8:161:SER:HB3	1.76	0.66
2:CA:49:ASP:HB2	3:DB:161:SER:HB3	1.76	0.66
2:CA:58:LEU:HD22	2:CA:93:SER:HB3	1.78	0.66
2:CC:120:HIS:CD2	2:CC:205:PRO:HD2	2.29	0.66
2:CC:209:VAL:O	2:CC:209:VAL:HG12	1.94	0.66
2:CG:20:GLY:HA2	2:CG:56:PRO:O	1.94	0.66
2:CL:135:THR:HB	2:CL:139:ALA:HA	1.77	0.66
2:CM:49:ASP:HB2	3:DN:161:SER:HB3	1.76	0.66
2:CO:135:THR:HB	2:CO:139:ALA:HA	1.78	0.66
2:CQ:135:THR:HB	2:CQ:139:ALA:HA	1.77	0.66
2:CR:223:ASN:HD22	2:CR:223:ASN:H	1.41	0.66
2:CT:20:GLY:HA2	2:CT:56:PRO:O	1.94	0.66
2:CW:212:THR:HG21	3:DJ:188:LEU:HD22	1.75	0.66
2:Ca:209:VAL:O	2:Ca:209:VAL:HG12	1.94	0.66
2:Cb:120:HIS:CD2	2:Cb:205:PRO:HD2	2.29	0.66
2:Cg:120:HIS:CD2	2:Cg:205:PRO:HD2	2.29	0.66
2:Cl:58:LEU:HD22	2:Cl:93:SER:HB3	1.78	0.66
2:Cq:49:ASP:HB2	3:Dr:161:SER:HB3	1.76	0.66
2:Cs:49:ASP:HB2	3:Do:161:SER:HB3	1.76	0.66
2:Cs:209:VAL:HG12	2:Cs:209:VAL:O	1.94	0.66
2:Cu:49:ASP:HB2	3:EC:161:SER:HB3	1.76	0.66
2:Cu:209:VAL:H	2:Cu:210:PRO:CD	2.07	0.66
3:D2:42:ASN:O	3:D2:45:ASP:HB2	1.96	0.66
3:D4:56:ILE:O	3:D4:59:LYS:HG2	1.94	0.66
3:D7:83:ALA:O	3:D7:86:HIS:HB3	1.96	0.66
3:D8:19:PRO:O	3:D8:20:ASP:HB2	1.94	0.66
3:D9:116:THR:CG2	3:D9:191:LEU:HD21	2.21	0.66
3:DB:66:ASN:HA	3:DB:190:ALA:HB1	1.77	0.66
3:DK:19:PRO:O	3:DK:20:ASP:HB2	1.94	0.66
3:DO:42:ASN:O	3:DO:45:ASP:HB2	1.96	0.66
3:DQ:83:ALA:O	3:DQ:86:HIS:HB3	1.96	0.66
3:DW:8:VAL:HB	3:DW:10:GLU:HG2	1.77	0.66
3:DZ:42:ASN:O	3:DZ:45:ASP:HB2	1.96	0.66
3:Da:19:PRO:O	3:Da:20:ASP:HB2	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dk:42:ASN:O	3:Dk:45:ASP:HB2	1.96	0.66
3:Dp:42:ASN:O	3:Dp:45:ASP:HB2	1.96	0.66
3:Dr:19:PRO:O	3:Dr:20:ASP:HB2	1.94	0.66
3:EB:42:ASN:O	3:EB:45:ASP:HB2	1.96	0.66
3:ED:83:ALA:O	3:ED:86:HIS:HB3	1.96	0.66
1:A0:88:PHE:CZ	1:A0:205:GLY:HA3	2.31	0.66
1:A1:110:GLY:H	1:A2:242:ASN:HD22	1.43	0.66
1:A6:164:TRP:HZ2	1:A6:187:LEU:HD21	1.58	0.66
1:A7:40:VAL:HB	1:A7:68:TRP:CZ2	2.30	0.66
1:A9:121:LEU:HD21	1:An:206:GLY:HA3	1.78	0.66
1:AA:187:LEU:CD2	1:AA:188:PRO:HD2	2.25	0.66
1:AB:88:PHE:CZ	1:AB:205:GLY:HA3	2.30	0.66
1:AC:210:ARG:NH1	3:DC:14:PHE:CE1	2.63	0.66
1:AD:40:VAL:HB	1:AD:68:TRP:CZ2	2.30	0.66
1:AF:210:ARG:NH1	3:DF:14:PHE:CE1	2.63	0.66
1:AG:88:PHE:CZ	1:AG:205:GLY:HA3	2.30	0.66
1:AH:210:ARG:NH1	3:DH:14:PHE:CE1	2.63	0.66
1:AI:210:ARG:NH1	3:DI:14:PHE:CE1	2.63	0.66
1:AL:40:VAL:HB	1:AL:68:TRP:CZ2	2.30	0.66
1:AL:121:LEU:HD11	1:AM:206:GLY:N	2.11	0.66
1:AM:121:LEU:HD21	1:AN:206:GLY:HA3	1.78	0.66
1:AP:121:LEU:HD11	1:AQ:206:GLY:N	2.11	0.66
1:AQ:77:TYR:HD1	1:AQ:168:PRO:HA	1.60	0.66
1:AQ:110:GLY:H	1:AR:242:ASN:HD22	1.42	0.66
1:AR:77:TYR:HD1	1:AR:168:PRO:HA	1.60	0.66
1:AT:209:LEU:HD13	1:AT:210:ARG:H	1.61	0.66
1:AW:121:LEU:HD11	1:AX:206:GLY:N	2.11	0.66
1:AX:77:TYR:HD1	1:AX:168:PRO:HA	1.60	0.66
1:AY:57:LEU:HD21	1:AY:195:ILE:HG12	1.76	0.66
1:AY:121:LEU:HD21	1:AZ:206:GLY:HA3	1.78	0.66
1:Aa:77:TYR:HD1	1:Aa:168:PRO:HA	1.60	0.66
1:Ac:77:TYR:HD1	1:Ac:168:PRO:HA	1.60	0.66
1:Ac:130:ILE:CD1	1:Ac:135:VAL:HG12	2.24	0.66
1:Af:130:ILE:CD1	1:Af:135:VAL:HG12	2.25	0.66
1:Ah:130:ILE:CD1	1:Ah:135:VAL:HG12	2.24	0.66
1:Al:210:ARG:NH1	3:Dn:14:PHE:CE1	2.63	0.66
1:Am:40:VAL:HB	1:Am:68:TRP:CZ2	2.30	0.66
1:Am:206:GLY:HA3	1:BD:121:LEU:HD21	1.78	0.66
1:BE:206:GLY:N	1:BI:121:LEU:HD11	2.11	0.66
1:BF:110:GLY:H	1:BG:242:ASN:HD22	1.43	0.66
1:BG:130:ILE:CD1	1:BG:135:VAL:HG12	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:77:TYR:HD1	1:BH:168:PRO:HA	1.60	0.66
1:BH:110:GLY:H	1:BI:242:ASN:HD22	1.43	0.66
1:BH:209:LEU:HD13	1:BH:210:ARG:H	1.61	0.66
2:C1:135:THR:HB	2:C1:139:ALA:HA	1.78	0.66
2:C2:223:ASN:HD22	2:C2:223:ASN:H	1.41	0.66
2:C5:58:LEU:HD22	2:C5:93:SER:HB3	1.78	0.66
2:C9:120:HIS:CD2	2:C9:205:PRO:HD2	2.29	0.66
2:CE:58:LEU:HD13	2:CE:94:PHE:CA	2.23	0.66
2:CI:120:HIS:CD2	2:CI:205:PRO:HD2	2.29	0.66
2:CL:120:HIS:CD2	2:CL:205:PRO:HD2	2.29	0.66
2:CM:135:THR:HB	2:CM:139:ALA:HA	1.78	0.66
2:CO:58:LEU:HD22	2:CO:93:SER:HB3	1.78	0.66
2:CR:13:ARG:HB3	2:CR:27:GLN:OE1	1.95	0.66
2:CR:49:ASP:HB2	3:DS:161:SER:HB3	1.76	0.66
2:CS:49:ASP:HB2	3:DT:161:SER:HB3	1.76	0.66
2:CT:65:LYS:HB2	3:DK:135:ARG:HH21	1.61	0.66
2:Cc:13:ARG:HB3	2:Cc:27:GLN:OE1	1.94	0.66
2:Cc:209:VAL:H	2:Cc:210:PRO:CD	2.07	0.66
2:Cg:135:THR:HB	2:Cg:139:ALA:HA	1.78	0.66
2:Cg:209:VAL:H	2:Cg:210:PRO:CD	2.07	0.66
2:Cu:135:THR:HB	2:Cu:139:ALA:HA	1.77	0.66
2:Cv:13:ARG:HB3	2:Cv:27:GLN:OE1	1.95	0.66
2:Cw:58:LEU:HD22	2:Cw:93:SER:HB3	1.78	0.66
3:D3:83:ALA:O	3:D3:86:HIS:HB3	1.96	0.66
3:D4:19:PRO:O	3:D4:20:ASP:HB2	1.94	0.66
3:D6:19:PRO:O	3:D6:20:ASP:HB2	1.94	0.66
3:D7:8:VAL:HB	3:D7:10:GLU:HG2	1.77	0.66
3:DG:83:ALA:O	3:DG:86:HIS:HB3	1.96	0.66
3:DM:56:ILE:O	3:DM:59:LYS:HG2	1.94	0.66
3:DN:56:ILE:HG13	3:DN:74:PHE:CE1	2.29	0.66
3:DO:56:ILE:HG13	3:DO:74:PHE:CE1	2.29	0.66
3:DO:83:ALA:O	3:DO:86:HIS:HB3	1.96	0.66
3:DS:42:ASN:O	3:DS:45:ASP:HB2	1.96	0.66
3:DS:66:ASN:HA	3:DS:190:ALA:HB1	1.77	0.66
3:DV:8:VAL:HB	3:DV:10:GLU:HG2	1.77	0.66
3:DV:83:ALA:O	3:DV:86:HIS:HB3	1.96	0.66
3:DX:83:ALA:O	3:DX:86:HIS:HB3	1.96	0.66
3:Da:42:ASN:O	3:Da:45:ASP:HB2	1.96	0.66
3:Db:83:ALA:O	3:Db:86:HIS:HB3	1.96	0.66
3:Dg:8:VAL:HB	3:Dg:10:GLU:HG2	1.77	0.66
3:Dj:83:ALA:O	3:Dj:86:HIS:HB3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dn:83:ALA:O	3:Dn:86:HIS:HB3	1.96	0.66
3:EA:83:ALA:O	3:EA:86:HIS:HB3	1.96	0.66
3:EE:66:ASN:HA	3:EE:190:ALA:HB1	1.77	0.66
1:A4:77:TYR:HD1	1:A4:168:PRO:HA	1.60	0.66
1:A4:110:GLY:H	1:A5:242:ASN:HD22	1.43	0.66
1:AB:210:ARG:NH1	3:DB:14:PHE:CE1	2.63	0.66
1:AC:209:LEU:HD13	1:AC:210:ARG:H	1.61	0.66
1:AE:57:LEU:HD21	1:AE:195:ILE:HG12	1.76	0.66
1:AG:164:TRP:HZ2	1:AG:187:LEU:HD21	1.58	0.66
1:AH:121:LEU:HD21	1:AI:206:GLY:HA3	1.78	0.66
1:AK:121:LEU:HD21	1:AL:206:GLY:HA3	1.78	0.66
1:AQ:40:VAL:HB	1:AQ:68:TRP:CZ2	2.30	0.66
1:AR:187:LEU:CD2	1:AR:188:PRO:HD2	2.25	0.66
1:AT:242:ASN:HD22	1:AX:110:GLY:H	1.43	0.66
1:AU:77:TYR:HD1	1:AU:168:PRO:HA	1.60	0.66
1:AV:88:PHE:CZ	1:AV:205:GLY:HA3	2.30	0.66
1:AW:40:VAL:HB	1:AW:68:TRP:CZ2	2.30	0.66
1:AX:210:ARG:NH1	3:DY:14:PHE:CE1	2.63	0.66
1:Ac:121:LEU:HD11	1:Ad:206:GLY:N	2.11	0.66
1:Ae:121:LEU:HD11	1:Af:206:GLY:N	2.11	0.66
1:Ah:206:GLY:HA3	1:Al:121:LEU:HD21	1.78	0.66
1:Ah:210:ARG:NH1	3:Dj:14:PHE:CE1	2.63	0.66
1:Ah:242:ASN:HD22	1:Al:110:GLY:H	1.43	0.66
1:Ai:121:LEU:HD21	1:Aj:206:GLY:HA3	1.78	0.66
1:Ai:130:ILE:CD1	1:Ai:135:VAL:HG12	2.25	0.66
1:Ak:210:ARG:NH1	3:Dm:14:PHE:CE1	2.63	0.66
1:An:88:PHE:CZ	1:An:205:GLY:HA3	2.30	0.66
1:Ao:209:LEU:HD13	1:Ao:210:ARG:H	1.61	0.66
1:BA:88:PHE:CZ	1:BA:205:GLY:HA3	2.30	0.66
1:BB:121:LEU:HD21	1:BC:206:GLY:HA3	1.78	0.66
1:BC:88:PHE:CZ	1:BC:205:GLY:HA3	2.30	0.66
1:BI:77:TYR:HD1	1:BI:168:PRO:HA	1.60	0.66
2:C3:209:VAL:HG12	2:C3:209:VAL:O	1.94	0.66
2:C5:49:ASP:HB2	3:D6:161:SER:HB3	1.76	0.66
2:C8:209:VAL:O	2:C8:209:VAL:HG12	1.94	0.66
2:CA:13:ARG:HB3	2:CA:27:GLN:OE1	1.94	0.66
2:CB:65:LYS:HB2	3:Df:135:ARG:HH21	1.61	0.66
2:CC:13:ARG:HB3	2:CC:27:GLN:OE1	1.95	0.66
2:CE:49:ASP:HB2	3:DA:161:SER:HB3	1.76	0.66
2:CJ:209:VAL:H	2:CJ:210:PRO:CD	2.07	0.66
2:CM:65:LYS:HB2	3:Di:135:ARG:HH21	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:58:LEU:HD22	2:CR:93:SER:HB3	1.78	0.66
2:CR:209:VAL:HG12	2:CR:209:VAL:O	1.94	0.66
2:CS:209:VAL:HG12	2:CS:209:VAL:O	1.94	0.66
2:CT:13:ARG:HB3	2:CT:27:GLN:OE1	1.94	0.66
2:CU:209:VAL:O	2:CU:209:VAL:HG12	1.94	0.66
2:Cb:13:ARG:HB3	2:Cb:27:GLN:OE1	1.94	0.66
2:Cd:13:ARG:HB3	2:Cd:27:GLN:OE1	1.94	0.66
2:Cd:58:LEU:HD22	2:Cd:93:SER:HB3	1.78	0.66
2:Cd:209:VAL:O	2:Cd:209:VAL:HG12	1.94	0.66
2:Cf:120:HIS:CD2	2:Cf:205:PRO:HD2	2.29	0.66
2:Cg:49:ASP:HB2	3:Dh:161:SER:HB3	1.76	0.66
2:Cm:58:LEU:HD22	2:Cm:93:SER:HB3	1.78	0.66
2:Cn:49:ASP:HB2	3:Dj:161:SER:HB3	1.76	0.66
2:Co:58:LEU:HD13	2:Co:94:PHE:CA	2.23	0.66
3:D4:42:ASN:O	3:D4:45:ASP:HB2	1.96	0.66
3:D4:83:ALA:O	3:D4:86:HIS:HB3	1.96	0.66
3:DE:56:ILE:O	3:DE:59:LYS:HG2	1.94	0.66
3:DG:66:ASN:HA	3:DG:190:ALA:HB1	1.77	0.66
3:DO:19:PRO:O	3:DO:20:ASP:HB2	1.94	0.66
3:DQ:42:ASN:O	3:DQ:45:ASP:HB2	1.96	0.66
3:DT:19:PRO:O	3:DT:20:ASP:HB2	1.94	0.66
3:DT:56:ILE:O	3:DT:59:LYS:HG2	1.94	0.66
3:DY:42:ASN:O	3:DY:45:ASP:HB2	1.96	0.66
3:De:83:ALA:O	3:De:86:HIS:HB3	1.96	0.66
3:Dg:42:ASN:O	3:Dg:45:ASP:HB2	1.96	0.66
3:Dh:8:VAL:HB	3:Dh:10:GLU:HG2	1.77	0.66
3:Dj:19:PRO:O	3:Dj:20:ASP:HB2	1.94	0.66
3:Dl:19:PRO:O	3:Dl:20:ASP:HB2	1.94	0.66
3:Dm:66:ASN:HA	3:Dm:190:ALA:HB1	1.77	0.66
3:Do:83:ALA:O	3:Do:86:HIS:HB3	1.96	0.66
3:Dr:56:ILE:O	3:Dr:59:LYS:HG2	1.94	0.66
3:EC:83:ALA:O	3:EC:86:HIS:HB3	1.96	0.66
1:A0:206:GLY:HA3	1:AZ:121:LEU:HD21	1.78	0.66
1:A1:164:TRP:HZ2	1:A1:187:LEU:HD21	1.58	0.66
1:A2:209:LEU:HD13	1:A2:210:ARG:H	1.61	0.66
1:A7:78:PHE:O	1:A7:167:VAL:HB	1.96	0.66
1:A8:40:VAL:HB	1:A8:68:TRP:CZ2	2.30	0.66
1:A9:209:LEU:HD13	1:A9:210:ARG:H	1.61	0.66
1:AE:88:PHE:CZ	1:AE:205:GLY:HA3	2.31	0.66
1:AG:78:PHE:O	1:AG:167:VAL:HB	1.96	0.66
1:AH:77:TYR:HD1	1:AH:168:PRO:HA	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:121:LEU:HD21	1:AJ:206:GLY:HA3	1.78	0.66
1:AL:78:PHE:O	1:AL:167:VAL:HB	1.96	0.66
1:AL:209:LEU:HD13	1:AL:210:ARG:H	1.61	0.66
1:AM:40:VAL:HB	1:AM:68:TRP:CZ2	2.30	0.66
1:AT:77:TYR:HD1	1:AT:168:PRO:HA	1.60	0.66
1:AY:88:PHE:CZ	1:AY:205:GLY:HA3	2.31	0.66
1:AY:187:LEU:CD2	1:AY:188:PRO:HD2	2.25	0.66
1:Aa:110:GLY:H	1:Ab:242:ASN:HD22	1.43	0.66
1:Aa:206:GLY:N	1:An:121:LEU:HD11	2.11	0.66
1:Ab:88:PHE:CZ	1:Ab:205:GLY:HA3	2.30	0.66
1:Ad:77:TYR:HD1	1:Ad:168:PRO:HA	1.60	0.66
1:Af:40:VAL:HB	1:Af:68:TRP:CZ2	2.30	0.66
1:Af:209:LEU:HD13	1:Af:210:ARG:H	1.61	0.66
1:Ag:40:VAL:HB	1:Ag:68:TRP:CZ2	2.30	0.66
1:Aj:83:GLU:HG2	1:Aj:157:SER:HA	1.76	0.66
1:BD:40:VAL:HB	1:BD:68:TRP:CZ2	2.30	0.66
1:BD:210:ARG:NH1	3:Ds:14:PHE:CE1	2.63	0.66
1:BF:210:ARG:NH1	3:EB:14:PHE:CE1	2.63	0.66
2:C0:49:ASP:HB2	3:D1:161:SER:HB3	1.76	0.66
2:C3:58:LEU:HD22	2:C3:93:SER:HB3	1.78	0.66
2:C3:223:ASN:H	2:C3:223:ASN:HD22	1.41	0.66
2:C7:65:LYS:HB2	3:Dm:135:ARG:HH21	1.61	0.66
2:C8:120:HIS:CD2	2:C8:205:PRO:HD2	2.29	0.66
2:CC:135:THR:HB	2:CC:139:ALA:HA	1.78	0.66
2:CF:115:ASN:C	3:D6:119:LYS:HZ3	2.02	0.66
2:CN:209:VAL:O	2:CN:209:VAL:HG12	1.94	0.66
2:CO:65:LYS:HB2	3:DP:135:ARG:HH21	1.61	0.66
2:CQ:58:LEU:HD13	2:CQ:94:PHE:CA	2.23	0.66
2:CT:49:ASP:HB2	3:DP:161:SER:HB3	1.76	0.66
2:CU:135:THR:HB	2:CU:139:ALA:HA	1.77	0.66
2:CV:209:VAL:H	2:CV:210:PRO:CD	2.07	0.66
2:CZ:223:ASN:H	2:CZ:223:ASN:HD22	1.41	0.66
2:Cb:65:LYS:HB2	3:DT:135:ARG:HH21	1.61	0.66
2:Cg:209:VAL:O	2:Cg:209:VAL:HG12	1.94	0.66
2:Cs:65:LYS:HB2	3:EA:135:ARG:HH21	1.61	0.66
3:D5:42:ASN:O	3:D5:45:ASP:HB2	1.96	0.66
3:DB:42:ASN:O	3:DB:45:ASP:HB2	1.96	0.66
3:DJ:42:ASN:O	3:DJ:45:ASP:HB2	1.96	0.66
3:DM:42:ASN:O	3:DM:45:ASP:HB2	1.96	0.66
3:DM:66:ASN:HA	3:DM:190:ALA:HB1	1.77	0.66
3:DT:42:ASN:O	3:DT:45:ASP:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:8:VAL:HB	3:DU:10:GLU:HG2	1.77	0.66
3:DV:116:THR:CG2	3:DV:191:LEU:HD21	2.21	0.66
3:DX:42:ASN:O	3:DX:45:ASP:HB2	1.96	0.66
3:DY:66:ASN:HA	3:DY:190:ALA:HB1	1.77	0.66
3:Di:42:ASN:O	3:Di:45:ASP:HB2	1.96	0.66
3:Dk:56:ILE:O	3:Dk:59:LYS:HG2	1.94	0.66
3:Dq:42:ASN:O	3:Dq:45:ASP:HB2	1.96	0.66
3:EA:8:VAL:HB	3:EA:10:GLU:HG2	1.77	0.66
3:ED:8:VAL:HB	3:ED:10:GLU:HG2	1.77	0.66
1:A2:210:ARG:NH1	3:D3:14:PHE:CE1	2.63	0.66
1:A3:88:PHE:CZ	1:A3:205:GLY:HA3	2.30	0.66
1:A7:130:ILE:CD1	1:A7:135:VAL:HG12	2.25	0.66
1:A8:57:LEU:HD21	1:A8:195:ILE:HG12	1.76	0.66
1:AA:121:LEU:HD21	1:AB:206:GLY:HA3	1.78	0.66
1:AF:206:GLY:N	1:AJ:121:LEU:HD11	2.11	0.66
1:AH:130:ILE:CD1	1:AH:135:VAL:HG12	2.25	0.66
1:AJ:187:LEU:CD2	1:AJ:188:PRO:HD2	2.25	0.66
1:AK:209:LEU:HD13	1:AK:210:ARG:H	1.61	0.66
1:AP:206:GLY:HA3	1:AS:121:LEU:HD21	1.78	0.66
1:AR:121:LEU:HD11	1:Ao:206:GLY:N	2.11	0.66
1:AU:88:PHE:CZ	1:AU:205:GLY:HA3	2.30	0.66
1:AU:121:LEU:HD21	1:AV:206:GLY:HA3	1.78	0.66
1:AW:88:PHE:CZ	1:AW:205:GLY:HA3	2.31	0.66
1:AZ:209:LEU:HD13	1:AZ:210:ARG:H	1.61	0.66
1:Af:77:TYR:HD1	1:Af:168:PRO:HA	1.60	0.66
1:Al:88:PHE:CZ	1:Al:205:GLY:HA3	2.31	0.66
1:Am:210:ARG:NH1	3:Do:14:PHE:CE1	2.63	0.66
1:An:83:GLU:HG2	1:An:157:SER:HA	1.76	0.66
1:BE:206:GLY:HA3	1:BI:121:LEU:HD21	1.78	0.66
1:BG:78:PHE:O	1:BG:167:VAL:HB	1.96	0.66
1:BG:121:LEU:HD11	1:BH:206:GLY:N	2.11	0.66
1:BI:82:LEU:HD11	1:BI:211:TYR:CD2	2.26	0.66
2:C4:135:THR:HB	2:C4:139:ALA:HA	1.78	0.66
2:C4:223:ASN:H	2:C4:223:ASN:HD22	1.41	0.66
2:C5:65:LYS:HB2	3:DG:135:ARG:HH21	1.61	0.66
2:C7:120:HIS:CD2	2:C7:205:PRO:HD2	2.29	0.66
2:C9:135:THR:HB	2:C9:139:ALA:HA	1.77	0.66
2:CA:65:LYS:HB2	3:DW:135:ARG:HH21	1.61	0.66
2:CB:58:LEU:HD22	2:CB:93:SER:HB3	1.78	0.66
2:CB:209:VAL:O	2:CB:209:VAL:HG12	1.94	0.66
2:CD:13:ARG:HB3	2:CD:27:GLN:OE1	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:135:THR:HB	2:CG:139:ALA:HA	1.77	0.66
2:CO:209:VAL:O	2:CO:209:VAL:HG12	1.94	0.66
2:CS:58:LEU:HD22	2:CS:93:SER:HB3	1.78	0.66
2:CT:120:HIS:CD2	2:CT:205:PRO:HD2	2.29	0.66
2:CV:58:LEU:HD22	2:CV:93:SER:HB3	1.78	0.66
2:CZ:115:ASN:C	3:Dq:119:LYS:HZ3	2.03	0.66
2:Ca:65:LYS:HB2	3:DL:135:ARG:HH21	1.61	0.66
2:Cc:135:THR:HB	2:Cc:139:ALA:HA	1.78	0.66
2:Ci:58:LEU:HD22	2:Ci:93:SER:HB3	1.78	0.66
2:Cl:135:THR:HB	2:Cl:139:ALA:HA	1.78	0.66
2:Cl:209:VAL:O	2:Cl:209:VAL:HG12	1.94	0.66
2:Co:49:ASP:HB2	3:Dp:161:SER:HB3	1.77	0.66
2:Cp:13:ARG:HB3	2:Cp:27:GLN:OE1	1.95	0.66
2:Cv:135:THR:HB	2:Cv:139:ALA:HA	1.77	0.66
3:D2:83:ALA:O	3:D2:86:HIS:HB3	1.96	0.66
3:D6:83:ALA:O	3:D6:86:HIS:HB3	1.96	0.66
3:DA:8:VAL:HB	3:DA:10:GLU:HG2	1.77	0.66
3:DA:83:ALA:O	3:DA:86:HIS:HB3	1.96	0.66
3:DG:42:ASN:O	3:DG:45:ASP:HB2	1.96	0.66
3:DH:8:VAL:HB	3:DH:10:GLU:HG2	1.77	0.66
3:DJ:66:ASN:HA	3:DJ:190:ALA:HB1	1.77	0.66
3:DL:8:VAL:HB	3:DL:10:GLU:HG2	1.77	0.66
3:DQ:19:PRO:O	3:DQ:20:ASP:HB2	1.94	0.66
3:DR:19:PRO:O	3:DR:20:ASP:HB2	1.94	0.66
3:DV:42:ASN:O	3:DV:45:ASP:HB2	1.96	0.66
3:DW:42:ASN:O	3:DW:45:ASP:HB2	1.96	0.66
3:Df:66:ASN:HA	3:Df:190:ALA:HB1	1.77	0.66
3:Dh:83:ALA:O	3:Dh:86:HIS:HB3	1.96	0.66
3:Di:116:THR:CG2	3:Di:191:LEU:HD21	2.21	0.66
3:Dq:66:ASN:HA	3:Dq:190:ALA:HB1	1.77	0.66
3:EA:19:PRO:O	3:EA:20:ASP:HB2	1.94	0.66
3:EC:66:ASN:HA	3:EC:190:ALA:HB1	1.77	0.66
3:EE:42:ASN:O	3:EE:45:ASP:HB2	1.96	0.66
1:A0:210:ARG:NH1	3:D1:14:PHE:CE1	2.63	0.66
1:A3:77:TYR:HD1	1:A3:168:PRO:HA	1.60	0.66
1:A3:121:LEU:HD11	1:A4:206:GLY:N	2.11	0.66
1:AB:110:GLY:H	1:AC:242:ASN:HD22	1.43	0.66
1:AC:40:VAL:HB	1:AC:68:TRP:CZ2	2.30	0.66
1:AC:121:LEU:HD21	1:AD:206:GLY:HA3	1.78	0.66
1:AD:78:PHE:O	1:AD:167:VAL:HB	1.96	0.66
1:AF:121:LEU:HD11	1:AG:206:GLY:N	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:40:VAL:HB	1:AG:68:TRP:CZ2	2.30	0.66
1:AG:187:LEU:CD2	1:AG:188:PRO:HD2	2.25	0.66
1:AK:88:PHE:CZ	1:AK:205:GLY:HA3	2.30	0.66
1:AM:209:LEU:HD13	1:AM:210:ARG:H	1.61	0.66
1:AN:83:GLU:HG2	1:AN:157:SER:HA	1.76	0.66
1:AO:130:ILE:CD1	1:AO:135:VAL:HG12	2.24	0.66
1:AP:82:LEU:HD11	1:AP:211:TYR:CD2	2.26	0.66
1:AP:210:ARG:NH1	3:DP:14:PHE:CE1	2.63	0.66
1:AP:242:ASN:HD22	1:AS:110:GLY:H	1.43	0.66
1:AR:57:LEU:HD21	1:AR:195:ILE:HG12	1.76	0.66
1:AR:88:PHE:CZ	1:AR:205:GLY:HA3	2.30	0.66
1:AR:164:TRP:HZ2	1:AR:187:LEU:HD21	1.58	0.66
1:AT:78:PHE:O	1:AT:167:VAL:HB	1.96	0.66
1:AT:121:LEU:HD11	1:AU:206:GLY:N	2.11	0.66
1:AU:57:LEU:HD21	1:AU:195:ILE:HG12	1.76	0.66
1:AZ:88:PHE:CZ	1:AZ:205:GLY:HA3	2.31	0.66
1:Aa:206:GLY:HA3	1:An:121:LEU:HD21	1.78	0.66
1:Ac:206:GLY:HA3	1:Ag:121:LEU:HD21	1.78	0.66
1:Ah:88:PHE:CZ	1:Ah:205:GLY:HA3	2.30	0.66
1:Ah:110:GLY:H	1:Ai:242:ASN:HD22	1.43	0.66
1:Ai:40:VAL:HB	1:Ai:68:TRP:CZ2	2.30	0.66
1:Ai:209:LEU:HD13	1:Ai:210:ARG:H	1.61	0.66
1:Ao:57:LEU:HD21	1:Ao:195:ILE:HG12	1.76	0.66
1:BB:210:ARG:NH1	3:Dq:14:PHE:CE1	2.63	0.66
1:BC:121:LEU:HD21	1:BD:206:GLY:HA3	1.78	0.66
1:BE:78:PHE:O	1:BE:167:VAL:HB	1.96	0.66
1:BE:88:PHE:CZ	1:BE:205:GLY:HA3	2.30	0.66
1:BE:121:LEU:HD11	1:BF:206:GLY:N	2.11	0.66
1:BG:209:LEU:HD13	1:BG:210:ARG:H	1.61	0.66
2:C3:135:THR:HB	2:C3:139:ALA:HA	1.78	0.66
2:C6:65:LYS:HB2	3:DE:135:ARG:HH21	1.61	0.66
2:C7:135:THR:HB	2:C7:139:ALA:HA	1.77	0.66
2:C8:223:ASN:H	2:C8:223:ASN:HD22	1.41	0.66
2:C9:58:LEU:HD22	2:C9:93:SER:HB3	1.78	0.66
2:CD:58:LEU:HD22	2:CD:93:SER:HB3	1.78	0.66
2:CG:49:ASP:HB2	3:DH:161:SER:HB3	1.76	0.66
2:CJ:209:VAL:O	2:CJ:209:VAL:HG12	1.94	0.66
2:CM:13:ARG:HB3	2:CM:27:GLN:OE1	1.95	0.66
2:CN:58:LEU:HD22	2:CN:93:SER:HB3	1.78	0.66
2:CO:49:ASP:HB2	3:DK:161:SER:HB3	1.76	0.66
2:CP:13:ARG:HB3	2:CP:27:GLN:OE1	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CS:115:ASN:C	3:Dc:119:LYS:HZ3	2.04	0.66
2:Ci:115:ASN:C	3:Dj:119:LYS:HZ3	2.04	0.66
2:Cj:135:THR:HB	2:Cj:139:ALA:HA	1.78	0.66
2:Ck:209:VAL:O	2:Ck:209:VAL:HG12	1.94	0.66
2:Co:120:HIS:CD2	2:Co:205:PRO:HD2	2.29	0.66
2:Cp:135:THR:HB	2:Cp:139:ALA:HA	1.78	0.66
3:D1:83:ALA:O	3:D1:86:HIS:HB3	1.96	0.66
3:D9:66:ASN:HA	3:D9:190:ALA:HB1	1.77	0.66
3:DE:83:ALA:O	3:DE:86:HIS:HB3	1.96	0.66
3:DF:56:ILE:O	3:DF:59:LYS:HG2	1.94	0.66
3:DH:83:ALA:O	3:DH:86:HIS:HB3	1.96	0.66
3:DI:83:ALA:O	3:DI:86:HIS:HB3	1.96	0.66
3:DN:42:ASN:O	3:DN:45:ASP:HB2	1.96	0.66
3:DQ:66:ASN:HA	3:DQ:190:ALA:HB1	1.77	0.66
3:DU:42:ASN:O	3:DU:45:ASP:HB2	1.96	0.66
3:DX:19:PRO:O	3:DX:20:ASP:HB2	1.94	0.66
3:DY:83:ALA:O	3:DY:86:HIS:HB3	1.96	0.66
3:DZ:19:PRO:O	3:DZ:20:ASP:HB2	1.94	0.66
3:Da:8:VAL:HB	3:Da:10:GLU:HG2	1.77	0.66
3:Db:42:ASN:O	3:Db:45:ASP:HB2	1.96	0.66
3:Dd:66:ASN:HA	3:Dd:190:ALA:HB1	1.77	0.66
3:Dl:8:VAL:HB	3:Dl:10:GLU:HG2	1.77	0.66
3:Dq:56:ILE:O	3:Dq:59:LYS:HG2	1.94	0.66
3:Ds:83:ALA:O	3:Ds:86:HIS:HB3	1.96	0.66
1:A1:121:LEU:HD11	1:A2:206:GLY:N	2.11	0.66
1:A4:121:LEU:HD21	1:A5:206:GLY:HA3	1.78	0.66
1:A6:88:PHE:CZ	1:A6:205:GLY:HA3	2.31	0.66
1:A9:110:GLY:H	1:An:242:ASN:HD22	1.42	0.66
1:AA:206:GLY:HA3	1:AE:121:LEU:HD21	1.78	0.66
1:AB:121:LEU:HD11	1:AC:206:GLY:N	2.11	0.66
1:AD:110:GLY:H	1:AE:242:ASN:HD22	1.43	0.66
1:AF:77:TYR:HD1	1:AF:168:PRO:HA	1.60	0.66
1:AF:187:LEU:CD2	1:AF:188:PRO:HD2	2.25	0.66
1:AG:121:LEU:HD21	1:AH:206:GLY:HA3	1.78	0.66
1:AH:209:LEU:HD13	1:AH:210:ARG:H	1.61	0.66
1:AP:206:GLY:N	1:AS:121:LEU:HD11	2.11	0.66
1:AP:209:LEU:HD13	1:AP:210:ARG:H	1.61	0.66
1:AR:121:LEU:HD21	1:Ao:206:GLY:HA3	1.78	0.66
1:AT:206:GLY:N	1:AX:121:LEU:HD11	2.11	0.66
1:AW:78:PHE:O	1:AW:167:VAL:HB	1.96	0.66
1:Aa:83:GLU:HG2	1:Aa:157:SER:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:78:PHE:O	1:Ab:167:VAL:HB	1.96	0.66
1:Ac:110:GLY:H	1:Ad:242:ASN:HD22	1.43	0.66
1:Ad:83:GLU:HG2	1:Ad:157:SER:HA	1.76	0.66
1:Af:88:PHE:CZ	1:Af:205:GLY:HA3	2.30	0.66
1:Ai:88:PHE:CZ	1:Ai:205:GLY:HA3	2.31	0.66
1:Ak:40:VAL:HB	1:Ak:68:TRP:CZ2	2.30	0.66
1:Am:88:PHE:CZ	1:Am:205:GLY:HA3	2.30	0.66
1:Am:206:GLY:N	1:BD:121:LEU:HD11	2.11	0.66
1:An:78:PHE:O	1:An:167:VAL:HB	1.96	0.66
1:Ao:88:PHE:CZ	1:Ao:205:GLY:HA3	2.30	0.66
1:Ao:130:ILE:CD1	1:Ao:135:VAL:HG12	2.24	0.66
1:BB:78:PHE:O	1:BB:167:VAL:HB	1.96	0.66
1:BC:77:TYR:HD1	1:BC:168:PRO:HA	1.60	0.66
1:BD:78:PHE:O	1:BD:167:VAL:HB	1.96	0.66
1:BD:88:PHE:CZ	1:BD:205:GLY:HA3	2.30	0.66
1:BG:40:VAL:HB	1:BG:68:TRP:CZ2	2.30	0.66
2:CC:49:ASP:HB2	3:DD:161:SER:HB3	1.76	0.66
2:CD:135:THR:HB	2:CD:139:ALA:HA	1.77	0.66
2:CF:135:THR:HB	2:CF:139:ALA:HA	1.78	0.66
2:CR:58:LEU:HD13	2:CR:94:PHE:CA	2.23	0.66
2:CU:49:ASP:HB2	3:DV:161:SER:HB3	1.76	0.66
2:CW:209:VAL:O	2:CW:209:VAL:HG12	1.94	0.66
2:CX:115:ASN:C	3:Dr:119:LYS:HZ3	2.04	0.66
2:Ca:209:VAL:H	2:Ca:210:PRO:CD	2.07	0.66
2:Ch:58:LEU:HD22	2:Ch:93:SER:HB3	1.78	0.66
2:Ci:209:VAL:HG12	2:Ci:209:VAL:O	1.94	0.66
2:Cj:115:ASN:C	3:DM:119:LYS:HZ3	2.03	0.66
2:Ck:49:ASP:HB2	3:Dl:161:SER:HB3	1.76	0.66
2:Cp:65:LYS:HB2	3:D0:135:ARG:HH21	1.61	0.66
2:Cs:120:HIS:CD2	2:Cs:205:PRO:HD2	2.29	0.66
2:Cw:135:THR:HB	2:Cw:139:ALA:HA	1.78	0.66
3:DE:8:VAL:HB	3:DE:10:GLU:HG2	1.77	0.66
3:DE:66:ASN:HA	3:DE:190:ALA:HB1	1.77	0.66
3:DF:42:ASN:O	3:DF:45:ASP:HB2	1.96	0.66
3:DG:56:ILE:O	3:DG:59:LYS:HG2	1.94	0.66
3:Dd:8:VAL:HB	3:Dd:10:GLU:HG2	1.77	0.66
3:Dl:83:ALA:O	3:Dl:86:HIS:HB3	1.96	0.66
3:Dn:121:LEU:HD23	3:Dn:121:LEU:C	2.21	0.66
3:Dp:56:ILE:O	3:Dp:59:LYS:HG2	1.94	0.66
1:A0:78:PHE:O	1:A0:167:VAL:HB	1.96	0.65
1:A0:130:ILE:CD1	1:A0:135:VAL:HG12	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:77:TYR:HD1	1:A2:168:PRO:HA	1.60	0.65
1:A4:59:PRO:O	1:A4:72:LEU:HD13	1.97	0.65
1:A5:77:TYR:HD1	1:A5:168:PRO:HA	1.60	0.65
1:A7:88:PHE:CZ	1:A7:205:GLY:HA3	2.31	0.65
1:AA:40:VAL:HB	1:AA:68:TRP:CZ2	2.30	0.65
1:AA:77:TYR:HD1	1:AA:168:PRO:HA	1.60	0.65
1:AA:209:LEU:HD13	1:AA:210:ARG:H	1.61	0.65
1:AB:78:PHE:O	1:AB:167:VAL:HB	1.96	0.65
1:AB:82:LEU:HD11	1:AB:211:TYR:CD2	2.26	0.65
1:AC:77:TYR:HD1	1:AC:168:PRO:HA	1.60	0.65
1:AC:78:PHE:O	1:AC:167:VAL:HB	1.96	0.65
1:AC:121:LEU:HD11	1:AD:206:GLY:N	2.11	0.65
1:AD:121:LEU:HD11	1:AE:206:GLY:N	2.11	0.65
1:AF:209:LEU:HD13	1:AF:210:ARG:H	1.61	0.65
1:AG:110:GLY:H	1:AH:242:ASN:HD22	1.43	0.65
1:AI:78:PHE:O	1:AI:167:VAL:HB	1.96	0.65
1:AJ:40:VAL:HB	1:AJ:68:TRP:CZ2	2.30	0.65
1:AL:59:PRO:O	1:AL:72:LEU:HD13	1.97	0.65
1:AL:83:GLU:HG2	1:AL:157:SER:HA	1.76	0.65
1:AL:121:LEU:HD21	1:AM:206:GLY:HA3	1.78	0.65
1:AL:164:TRP:HZ2	1:AL:187:LEU:HD21	1.58	0.65
1:AO:78:PHE:O	1:AO:167:VAL:HB	1.96	0.65
1:AP:78:PHE:O	1:AP:167:VAL:HB	1.96	0.65
1:AQ:209:LEU:HD13	1:AQ:210:ARG:H	1.61	0.65
1:AU:82:LEU:HD11	1:AU:211:TYR:CD2	2.26	0.65
1:AX:59:PRO:O	1:AX:72:LEU:HD13	1.97	0.65
1:AX:78:PHE:O	1:AX:167:VAL:HB	1.96	0.65
1:AX:88:PHE:CZ	1:AX:205:GLY:HA3	2.30	0.65
1:Ac:242:ASN:HD22	1:Ag:110:GLY:H	1.43	0.65
1:Ae:121:LEU:HD21	1:Af:206:GLY:HA3	1.78	0.65
1:Ah:78:PHE:O	1:Ah:167:VAL:HB	1.96	0.65
1:Ah:206:GLY:N	1:Al:121:LEU:HD11	2.11	0.65
1:Aj:121:LEU:HD11	1:Ak:206:GLY:N	2.11	0.65
1:Am:121:LEU:HD21	1:BA:206:GLY:HA3	1.78	0.65
1:Am:209:LEU:HD13	1:Am:210:ARG:H	1.61	0.65
1:An:209:LEU:HD13	1:An:210:ARG:H	1.61	0.65
1:BA:59:PRO:O	1:BA:72:LEU:HD13	1.97	0.65
1:BA:78:PHE:O	1:BA:167:VAL:HB	1.96	0.65
1:BE:40:VAL:HB	1:BE:68:TRP:CZ2	2.30	0.65
1:BI:209:LEU:HD13	1:BI:210:ARG:H	1.61	0.65
2:C5:135:THR:HB	2:C5:139:ALA:HA	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:65:LYS:HB2	3:D9:135:ARG:HH21	1.61	0.65
2:CA:135:THR:HB	2:CA:139:ALA:HA	1.78	0.65
2:CH:58:LEU:HD22	2:CH:93:SER:HB3	1.78	0.65
2:CK:58:LEU:HD22	2:CK:93:SER:HB3	1.78	0.65
2:CL:49:ASP:HB2	3:DM:161:SER:HB3	1.76	0.65
2:CP:58:LEU:HD22	2:CP:93:SER:HB3	1.78	0.65
2:CQ:49:ASP:HB2	3:DR:161:SER:HB3	1.76	0.65
2:CQ:209:VAL:H	2:CQ:210:PRO:CD	2.07	0.65
2:CS:65:LYS:HB2	3:Dc:135:ARG:HH21	1.61	0.65
2:CZ:13:ARG:HB3	2:CZ:27:GLN:OE1	1.95	0.65
2:Ca:58:LEU:HD22	2:Ca:93:SER:HB3	1.78	0.65
2:Cf:65:LYS:HB2	3:DV:135:ARG:HH21	1.61	0.65
2:Ci:135:THR:HB	2:Ci:139:ALA:HA	1.78	0.65
2:Cn:58:LEU:HD22	2:Cn:93:SER:HB3	1.78	0.65
2:Cr:58:LEU:HD22	2:Cr:93:SER:HB3	1.78	0.65
3:D8:42:ASN:O	3:D8:45:ASP:HB2	1.96	0.65
3:D8:83:ALA:O	3:D8:86:HIS:HB3	1.96	0.65
3:D9:83:ALA:O	3:D9:86:HIS:HB3	1.96	0.65
3:DB:121:LEU:HD23	3:DB:121:LEU:C	2.22	0.65
3:DF:83:ALA:O	3:DF:86:HIS:HB3	1.96	0.65
3:DK:83:ALA:O	3:DK:86:HIS:HB3	1.96	0.65
3:DM:8:VAL:HB	3:DM:10:GLU:HG2	1.77	0.65
3:DM:83:ALA:O	3:DM:86:HIS:HB3	1.96	0.65
3:DR:83:ALA:O	3:DR:86:HIS:HB3	1.96	0.65
3:DS:83:ALA:O	3:DS:86:HIS:HB3	1.96	0.65
3:DT:83:ALA:O	3:DT:86:HIS:HB3	1.96	0.65
3:DV:19:PRO:O	3:DV:20:ASP:HB2	1.94	0.65
3:DX:66:ASN:HA	3:DX:190:ALA:HB1	1.77	0.65
3:Db:66:ASN:HA	3:Db:190:ALA:HB1	1.77	0.65
3:Dg:66:ASN:HA	3:Dg:190:ALA:HB1	1.77	0.65
3:Ds:8:VAL:HB	3:Ds:10:GLU:HG2	1.77	0.65
3:Ds:42:ASN:O	3:Ds:45:ASP:HB2	1.96	0.65
3:Ds:99:GLN:OE1	3:Ds:217:ARG:HD2	1.93	0.65
3:Ds:121:LEU:HD23	3:Ds:121:LEU:C	2.22	0.65
3:EB:66:ASN:HA	3:EB:190:ALA:HB1	1.77	0.65
1:A1:78:PHE:O	1:A1:167:VAL:HB	1.96	0.65
1:A3:59:PRO:O	1:A3:72:LEU:HD13	1.96	0.65
1:A5:59:PRO:O	1:A5:72:LEU:HD13	1.97	0.65
1:A8:77:TYR:HD1	1:A8:168:PRO:HA	1.60	0.65
1:A8:121:LEU:HD11	1:A9:206:GLY:N	2.11	0.65
1:AB:121:LEU:HD21	1:AC:206:GLY:HA3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:82:LEU:HD11	1:AC:211:TYR:CD2	2.26	0.65
1:AI:110:GLY:H	1:AJ:242:ASN:HD22	1.43	0.65
1:AK:110:GLY:H	1:AL:242:ASN:HD22	1.43	0.65
1:AN:77:TYR:HD1	1:AN:168:PRO:HA	1.60	0.65
1:AQ:121:LEU:HD21	1:AR:206:GLY:HA3	1.78	0.65
1:Aa:78:PHE:O	1:Aa:167:VAL:HB	1.96	0.65
1:Ab:209:LEU:HD13	1:Ab:210:ARG:H	1.61	0.65
1:Ae:130:ILE:CD1	1:Ae:135:VAL:HG12	2.24	0.65
1:Af:78:PHE:O	1:Af:167:VAL:HB	1.96	0.65
1:Ah:121:LEU:HD11	1:Ai:206:GLY:N	2.11	0.65
1:Am:164:TRP:HZ2	1:Am:187:LEU:HD21	1.58	0.65
1:Ao:77:TYR:HD1	1:Ao:168:PRO:HA	1.60	0.65
1:BA:77:TYR:HD1	1:BA:168:PRO:HA	1.60	0.65
1:BC:40:VAL:HB	1:BC:68:TRP:CZ2	2.30	0.65
1:BC:209:LEU:HD13	1:BC:210:ARG:H	1.61	0.65
1:BF:209:LEU:HD13	1:BF:210:ARG:H	1.61	0.65
1:BG:88:PHE:CZ	1:BG:205:GLY:HA3	2.30	0.65
2:C1:13:ARG:HB3	2:C1:27:GLN:OE1	1.95	0.65
2:CI:65:LYS:HB2	3:DX:135:ARG:HH21	1.61	0.65
2:CK:65:LYS:HB2	3:Db:135:ARG:HH21	1.61	0.65
2:CM:58:LEU:HD22	2:CM:93:SER:HB3	1.78	0.65
2:Cd:65:LYS:HB2	3:D4:135:ARG:HH21	1.61	0.65
2:Cg:58:LEU:HD22	2:Cg:93:SER:HB3	1.78	0.65
2:CI:65:LYS:HB2	3:Dj:135:ARG:HH21	1.61	0.65
2:Cj:65:LYS:HB2	3:DM:135:ARG:HH21	1.61	0.65
2:Cm:49:ASP:HB2	3:Dn:161:SER:HB3	1.76	0.65
2:Cr:65:LYS:HB2	3:DI:135:ARG:HH21	1.61	0.65
2:Cv:58:LEU:HD22	2:Cv:93:SER:HB3	1.78	0.65
3:D7:121:LEU:C	3:D7:121:LEU:HD23	2.22	0.65
3:DA:121:LEU:C	3:DA:121:LEU:HD23	2.22	0.65
3:DB:8:VAL:HB	3:DB:10:GLU:HG2	1.77	0.65
3:DD:121:LEU:HD23	3:DD:121:LEU:C	2.22	0.65
3:DE:42:ASN:O	3:DE:45:ASP:HB2	1.96	0.65
3:DF:121:LEU:HD23	3:DF:121:LEU:C	2.22	0.65
3:DH:19:PRO:O	3:DH:20:ASP:HB2	1.94	0.65
3:DI:8:VAL:HB	3:DI:10:GLU:HG2	1.77	0.65
3:DN:8:VAL:HB	3:DN:10:GLU:HG2	1.77	0.65
3:DP:66:ASN:HA	3:DP:190:ALA:HB1	1.77	0.65
3:DQ:121:LEU:HD23	3:DQ:121:LEU:C	2.22	0.65
3:DZ:83:ALA:O	3:DZ:86:HIS:HB3	1.96	0.65
3:DZ:121:LEU:HD23	3:DZ:121:LEU:C	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dc:121:LEU:HD23	3:Dc:121:LEU:C	2.22	0.65
3:Df:8:VAL:HB	3:Df:10:GLU:HG2	1.77	0.65
3:Df:83:ALA:O	3:Df:86:HIS:HB3	1.96	0.65
3:Dk:121:LEU:HD23	3:Dk:121:LEU:C	2.22	0.65
3:Do:66:ASN:HA	3:Do:190:ALA:HB1	1.77	0.65
3:EB:83:ALA:O	3:EB:86:HIS:HB3	1.96	0.65
3:EB:132:PRO:HG2	3:EB:184:GLN:HE22	1.62	0.65
1:A0:121:LEU:HD21	1:A1:206:GLY:HA3	1.78	0.65
1:A0:242:ASN:HD22	1:AZ:110:GLY:H	1.43	0.65
1:A1:77:TYR:HD1	1:A1:168:PRO:HA	1.60	0.65
1:A3:242:ASN:HD22	1:A7:110:GLY:H	1.43	0.65
1:A4:57:LEU:HD21	1:A4:195:ILE:HG12	1.76	0.65
1:A4:78:PHE:O	1:A4:167:VAL:HB	1.96	0.65
1:A4:187:LEU:CD2	1:A4:188:PRO:HD2	2.25	0.65
1:AB:130:ILE:CD1	1:AB:135:VAL:HG12	2.25	0.65
1:AF:88:PHE:CZ	1:AF:205:GLY:HA3	2.30	0.65
1:AF:242:ASN:HD22	1:AJ:110:GLY:H	1.43	0.65
1:AJ:78:PHE:O	1:AJ:167:VAL:HB	1.96	0.65
1:AJ:88:PHE:CZ	1:AJ:205:GLY:HA3	2.30	0.65
1:AM:78:PHE:O	1:AM:167:VAL:HB	1.96	0.65
1:AO:40:VAL:HB	1:AO:68:TRP:CZ2	2.30	0.65
1:AP:77:TYR:HD1	1:AP:168:PRO:HA	1.60	0.65
1:AS:40:VAL:HB	1:AS:68:TRP:CZ2	2.30	0.65
1:AT:40:VAL:HB	1:AT:68:TRP:CZ2	2.30	0.65
1:AU:40:VAL:HB	1:AU:68:TRP:CZ2	2.30	0.65
1:AV:59:PRO:O	1:AV:72:LEU:HD13	1.96	0.65
1:AY:110:GLY:H	1:AZ:242:ASN:HD22	1.43	0.65
1:Aa:121:LEU:HD21	1:Ab:206:GLY:HA3	1.78	0.65
1:Ae:59:PRO:O	1:Ae:72:LEU:HD13	1.97	0.65
1:Ag:59:PRO:O	1:Ag:72:LEU:HD13	1.97	0.65
1:Ah:121:LEU:HD21	1:Ai:206:GLY:HA3	1.78	0.65
1:Al:187:LEU:CD2	1:Al:188:PRO:HD2	2.25	0.65
1:Am:187:LEU:CD2	1:Am:188:PRO:HD2	2.25	0.65
1:Ao:210:ARG:NH1	3:DS:14:PHE:CE1	2.63	0.65
1:BB:82:LEU:HD11	1:BB:211:TYR:CD2	2.26	0.65
1:BF:77:TYR:HD1	1:BF:168:PRO:HA	1.60	0.65
1:BF:121:LEU:HD21	1:BG:206:GLY:HA3	1.78	0.65
1:BG:59:PRO:O	1:BG:72:LEU:HD13	1.97	0.65
1:BH:40:VAL:HB	1:BH:68:TRP:CZ2	2.30	0.65
1:BH:78:PHE:O	1:BH:167:VAL:HB	1.96	0.65
1:BI:59:PRO:O	1:BI:72:LEU:HD13	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:135:THR:HB	2:C0:139:ALA:HA	1.77	0.65
2:C8:13:ARG:HB3	2:C8:27:GLN:OE1	1.95	0.65
2:CB:49:ASP:HB2	3:DC:161:SER:HB3	1.76	0.65
2:CI:115:ASN:C	3:DX:119:LYS:HZ3	2.04	0.65
2:CN:65:LYS:HB2	3:D2:135:ARG:HH21	1.61	0.65
2:CP:209:VAL:O	2:CP:209:VAL:HG12	1.94	0.65
2:CQ:58:LEU:HD22	2:CQ:93:SER:HB3	1.78	0.65
2:CQ:65:LYS:HB2	3:Dp:135:ARG:HH21	1.61	0.65
2:CY:115:ASN:C	3:DZ:119:LYS:HZ3	2.04	0.65
2:Ch:65:LYS:HB2	3:DN:135:ARG:HH21	1.61	0.65
2:Cj:209:VAL:HG12	2:Cj:209:VAL:O	1.94	0.65
2:Co:209:VAL:H	2:Co:210:PRO:CD	2.07	0.65
2:Cu:58:LEU:HD22	2:Cu:93:SER:HB3	1.78	0.65
2:Cw:65:LYS:HB2	3:DS:135:ARG:HH21	1.61	0.65
3:D3:19:PRO:O	3:D3:20:ASP:HB2	1.94	0.65
3:D4:119:LYS:HA	3:D4:147:ASP:HA	1.79	0.65
3:D6:119:LYS:HA	3:D6:147:ASP:HA	1.79	0.65
3:DB:83:ALA:O	3:DB:86:HIS:HB3	1.96	0.65
3:DC:132:PRO:HG2	3:DC:184:GLN:HE22	1.62	0.65
3:DE:132:PRO:HG2	3:DE:184:GLN:HE22	1.62	0.65
3:DK:121:LEU:HD23	3:DK:121:LEU:C	2.22	0.65
3:DL:42:ASN:O	3:DL:45:ASP:HB2	1.96	0.65
3:DO:121:LEU:HD23	3:DO:121:LEU:C	2.22	0.65
3:DR:121:LEU:HD23	3:DR:121:LEU:C	2.22	0.65
3:DW:83:ALA:O	3:DW:86:HIS:HB3	1.96	0.65
3:DW:121:LEU:HD23	3:DW:121:LEU:C	2.22	0.65
3:DY:121:LEU:HD23	3:DY:121:LEU:C	2.22	0.65
3:Dc:42:ASN:O	3:Dc:45:ASP:HB2	1.96	0.65
3:Dc:119:LYS:HA	3:Dc:147:ASP:HA	1.79	0.65
3:Dj:42:ASN:O	3:Dj:45:ASP:HB2	1.96	0.65
3:Dk:19:PRO:O	3:Dk:20:ASP:HB2	1.94	0.65
3:Dk:83:ALA:O	3:Dk:86:HIS:HB3	1.96	0.65
3:Dl:42:ASN:O	3:Dl:45:ASP:HB2	1.96	0.65
3:Dl:121:LEU:HD23	3:Dl:121:LEU:C	2.22	0.65
3:Ds:119:LYS:HA	3:Ds:147:ASP:HA	1.79	0.65
3:EC:42:ASN:O	3:EC:45:ASP:HB2	1.96	0.65
3:ED:132:PRO:HG2	3:ED:184:GLN:HE22	1.62	0.65
1:A2:78:PHE:O	1:A2:167:VAL:HB	1.96	0.65
1:A2:121:LEU:HD11	1:AY:206:GLY:N	2.11	0.65
1:A3:82:LEU:HD11	1:A3:211:TYR:CD2	2.26	0.65
1:A3:206:GLY:HA3	1:A7:121:LEU:HD21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:78:PHE:O	1:A5:167:VAL:HB	1.96	0.65
1:AD:59:PRO:O	1:AD:72:LEU:HD13	1.97	0.65
1:AE:77:TYR:HD1	1:AE:168:PRO:HA	1.60	0.65
1:AF:110:GLY:H	1:AG:242:ASN:HD22	1.43	0.65
1:AF:164:TRP:HZ2	1:AF:187:LEU:HD21	1.58	0.65
1:AI:121:LEU:HD11	1:AJ:206:GLY:N	2.11	0.65
1:AO:77:TYR:HD1	1:AO:168:PRO:HA	1.60	0.65
1:AQ:59:PRO:O	1:AQ:72:LEU:HD13	1.97	0.65
1:AS:78:PHE:O	1:AS:167:VAL:HB	1.96	0.65
1:AS:206:GLY:HA3	1:Ao:121:LEU:HD21	1.78	0.65
1:AU:78:PHE:O	1:AU:167:VAL:HB	1.96	0.65
1:AV:209:LEU:HD13	1:AV:210:ARG:H	1.61	0.65
1:Ad:59:PRO:O	1:Ad:72:LEU:HD13	1.96	0.65
1:Ad:78:PHE:O	1:Ad:167:VAL:HB	1.96	0.65
1:Ai:121:LEU:HD11	1:Aj:206:GLY:N	2.11	0.65
1:Aj:59:PRO:O	1:Aj:72:LEU:HD13	1.96	0.65
1:Aj:78:PHE:O	1:Aj:167:VAL:HB	1.96	0.65
1:Ak:59:PRO:O	1:Ak:72:LEU:HD13	1.97	0.65
1:Ao:59:PRO:O	1:Ao:72:LEU:HD13	1.97	0.65
1:BB:110:GLY:H	1:BC:242:ASN:HD22	1.43	0.65
1:BB:187:LEU:CD2	1:BB:188:PRO:HD2	2.25	0.65
1:BC:82:LEU:HD11	1:BC:211:TYR:CD2	2.26	0.65
1:BI:40:VAL:HB	1:BI:68:TRP:CZ2	2.30	0.65
2:C1:120:HIS:CD2	2:C1:205:PRO:HD2	2.29	0.65
2:C4:58:LEU:HD22	2:C4:93:SER:HB3	1.78	0.65
2:CI:135:THR:HB	2:CI:139:ALA:HA	1.78	0.65
2:CM:209:VAL:H	2:CM:210:PRO:CD	2.07	0.65
2:CP:209:VAL:H	2:CP:210:PRO:CD	2.07	0.65
2:CR:65:LYS:HB2	3:EE:135:ARG:HH21	1.61	0.65
2:CT:135:THR:HB	2:CT:139:ALA:HA	1.78	0.65
2:Ca:135:THR:HB	2:Ca:139:ALA:HA	1.78	0.65
2:Cf:209:VAL:O	2:Cf:209:VAL:HG12	1.94	0.65
3:D2:119:LYS:HA	3:D2:147:ASP:HA	1.79	0.65
3:D5:53:PHE:CE2	3:D5:205:LEU:HB3	2.31	0.65
3:D9:121:LEU:HD23	3:D9:121:LEU:C	2.22	0.65
3:DA:119:LYS:HA	3:DA:147:ASP:HA	1.79	0.65
3:DF:119:LYS:HA	3:DF:147:ASP:HA	1.79	0.65
3:DI:119:LYS:HA	3:DI:147:ASP:HA	1.79	0.65
3:DJ:119:LYS:HA	3:DJ:147:ASP:HA	1.79	0.65
3:DO:132:PRO:HG2	3:DO:184:GLN:HE22	1.62	0.65
3:Da:121:LEU:HD23	3:Da:121:LEU:C	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Db:119:LYS:HA	3:Db:147:ASP:HA	1.79	0.65
3:Dc:66:ASN:HA	3:Dc:190:ALA:HB1	1.77	0.65
3:De:66:ASN:HA	3:De:190:ALA:HB1	1.77	0.65
3:Df:19:PRO:O	3:Df:20:ASP:HB2	1.94	0.65
3:Dj:8:VAL:HB	3:Dj:10:GLU:HG2	1.77	0.65
3:Dj:66:ASN:HA	3:Dj:190:ALA:HB1	1.77	0.65
3:Dr:121:LEU:C	3:Dr:121:LEU:HD23	2.22	0.65
3:EC:8:VAL:HB	3:EC:10:GLU:HG2	1.77	0.65
1:A0:164:TRP:HZ2	1:A0:187:LEU:HD21	1.58	0.65
1:A3:206:GLY:N	1:A7:121:LEU:HD11	2.11	0.65
1:A3:209:LEU:HD13	1:A3:210:ARG:H	1.61	0.65
1:A5:110:GLY:H	1:A6:242:ASN:HD22	1.42	0.65
1:A6:110:GLY:H	1:A7:242:ASN:HD22	1.43	0.65
1:A8:78:PHE:O	1:A8:167:VAL:HB	1.96	0.65
1:AA:121:LEU:HD11	1:AB:206:GLY:N	2.11	0.65
1:AA:242:ASN:HD22	1:AE:110:GLY:H	1.43	0.65
1:AD:77:TYR:HD1	1:AD:168:PRO:HA	1.60	0.65
1:AD:209:LEU:HD13	1:AD:210:ARG:H	1.61	0.65
1:AE:78:PHE:O	1:AE:167:VAL:HB	1.96	0.65
1:AH:40:VAL:HB	1:AH:68:TRP:CZ2	2.30	0.65
1:AK:206:GLY:N	1:AO:121:LEU:HD11	2.11	0.65
1:AM:83:GLU:HG2	1:AM:157:SER:HA	1.76	0.65
1:AM:121:LEU:HD11	1:AN:206:GLY:N	2.11	0.65
1:AP:59:PRO:O	1:AP:72:LEU:HD13	1.97	0.65
1:AR:110:GLY:N	1:Ao:242:ASN:HD22	1.95	0.65
1:AV:164:TRP:HZ2	1:AV:187:LEU:HD21	1.58	0.65
1:Ac:59:PRO:O	1:Ac:72:LEU:HD13	1.97	0.65
1:Ac:78:PHE:O	1:Ac:167:VAL:HB	1.96	0.65
1:Ae:209:LEU:HD13	1:Ae:210:ARG:H	1.61	0.65
1:Af:59:PRO:O	1:Af:72:LEU:HD13	1.97	0.65
1:Aj:77:TYR:HD1	1:Aj:168:PRO:HA	1.60	0.65
1:BF:78:PHE:O	1:BF:167:VAL:HB	1.96	0.65
1:BH:88:PHE:CZ	1:BH:205:GLY:HA3	2.30	0.65
2:C4:65:LYS:HB2	3:EC:135:ARG:HH21	1.61	0.65
2:CD:209:VAL:H	2:CD:210:PRO:CD	2.07	0.65
2:CV:135:THR:HB	2:CV:139:ALA:HA	1.78	0.65
2:CZ:58:LEU:HD22	2:CZ:93:SER:HB3	1.78	0.65
2:Ca:223:ASN:H	2:Ca:223:ASN:HD22	1.41	0.65
2:Cc:58:LEU:HD22	2:Cc:93:SER:HB3	1.78	0.65
2:Cj:58:LEU:HD22	2:Cj:93:SER:HB3	1.78	0.65
2:Co:58:LEU:HD22	2:Co:93:SER:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cs:58:LEU:HD22	2:Cs:93:SER:HB3	1.78	0.65
3:D0:121:LEU:HD23	3:D0:121:LEU:C	2.22	0.65
3:D3:121:LEU:HD23	3:D3:121:LEU:C	2.21	0.65
3:D6:42:ASN:O	3:D6:45:ASP:HB2	1.96	0.65
3:D9:42:ASN:O	3:D9:45:ASP:HB2	1.96	0.65
3:DB:19:PRO:O	3:DB:20:ASP:HB2	1.94	0.65
3:DC:121:LEU:HD23	3:DC:121:LEU:C	2.22	0.65
3:DF:66:ASN:HA	3:DF:190:ALA:HB1	1.77	0.65
3:DH:121:LEU:HD23	3:DH:121:LEU:C	2.22	0.65
3:DK:42:ASN:O	3:DK:45:ASP:HB2	1.96	0.65
3:DL:119:LYS:HA	3:DL:147:ASP:HA	1.79	0.65
3:DM:132:PRO:HG2	3:DM:184:GLN:HE22	1.62	0.65
3:DN:66:ASN:HA	3:DN:190:ALA:HB1	1.77	0.65
3:DT:121:LEU:HD23	3:DT:121:LEU:C	2.21	0.65
3:Dc:8:VAL:HB	3:Dc:10:GLU:HG2	1.77	0.65
3:Dc:132:PRO:HG2	3:Dc:184:GLN:HE22	1.62	0.65
3:De:119:LYS:HA	3:De:147:ASP:HA	1.79	0.65
3:Dg:132:PRO:HG2	3:Dg:184:GLN:HE22	1.62	0.65
3:Dh:66:ASN:HA	3:Dh:190:ALA:HB1	1.77	0.65
3:Dh:121:LEU:C	3:Dh:121:LEU:HD23	2.22	0.65
3:Di:83:ALA:O	3:Di:86:HIS:HB3	1.96	0.65
3:Di:119:LYS:HA	3:Di:147:ASP:HA	1.79	0.65
3:Di:121:LEU:HD23	3:Di:121:LEU:C	2.22	0.65
3:Dl:119:LYS:HA	3:Dl:147:ASP:HA	1.79	0.65
3:Dm:53:PHE:CE2	3:Dm:205:LEU:HB3	2.31	0.65
3:Dm:83:ALA:O	3:Dm:86:HIS:HB3	1.96	0.65
3:Do:42:ASN:O	3:Do:45:ASP:HB2	1.96	0.65
3:Dq:83:ALA:O	3:Dq:86:HIS:HB3	1.96	0.65
3:EA:42:ASN:O	3:EA:45:ASP:HB2	1.96	0.65
3:EC:121:LEU:HD23	3:EC:121:LEU:C	2.22	0.65
1:A0:77:TYR:HD1	1:A0:168:PRO:HA	1.60	0.65
1:A1:121:LEU:HD21	1:A2:206:GLY:HA3	1.78	0.65
1:A1:209:LEU:HD13	1:A1:210:ARG:H	1.61	0.65
1:A5:209:LEU:HD13	1:A5:210:ARG:H	1.61	0.65
1:A7:59:PRO:O	1:A7:72:LEU:HD13	1.97	0.65
1:A8:88:PHE:CZ	1:A8:205:GLY:HA3	2.31	0.65
1:A8:206:GLY:HA3	1:Ab:121:LEU:HD21	1.78	0.65
1:A8:209:LEU:HD13	1:A8:210:ARG:H	1.61	0.65
1:A9:78:PHE:O	1:A9:167:VAL:HB	1.96	0.65
1:AA:206:GLY:N	1:AE:121:LEU:HD11	2.11	0.65
1:AB:77:TYR:HD1	1:AB:168:PRO:HA	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:110:GLY:N	1:AI:242:ASN:HD22	1.95	0.65
1:AI:59:PRO:O	1:AI:72:LEU:HD13	1.97	0.65
1:AN:59:PRO:O	1:AN:72:LEU:HD13	1.96	0.65
1:AN:164:TRP:HZ2	1:AN:187:LEU:HD21	1.58	0.65
1:AO:209:LEU:HD13	1:AO:210:ARG:H	1.61	0.65
1:AP:110:GLY:N	1:AQ:242:ASN:HD22	1.95	0.65
1:AQ:121:LEU:HD11	1:AR:206:GLY:N	2.11	0.65
1:AS:164:TRP:HZ2	1:AS:187:LEU:HD21	1.58	0.65
1:AT:206:GLY:HA3	1:AX:121:LEU:HD21	1.78	0.65
1:AU:209:LEU:HD13	1:AU:210:ARG:H	1.61	0.65
1:AV:78:PHE:O	1:AV:167:VAL:HB	1.96	0.65
1:AV:110:GLY:N	1:AW:242:ASN:HD22	1.95	0.65
1:AZ:78:PHE:O	1:AZ:167:VAL:HB	1.96	0.65
1:Ac:242:ASN:HD22	1:Ag:110:GLY:N	1.95	0.65
1:Am:121:LEU:HD11	1:BA:206:GLY:N	2.11	0.65
1:Am:242:ASN:HD22	1:BD:110:GLY:N	1.95	0.65
1:BE:209:LEU:HD13	1:BE:210:ARG:H	1.61	0.65
1:BH:59:PRO:O	1:BH:72:LEU:HD13	1.97	0.65
1:BI:78:PHE:O	1:BI:167:VAL:HB	1.96	0.65
2:C4:209:VAL:H	2:C4:210:PRO:CD	2.07	0.65
2:CC:209:VAL:H	2:CC:210:PRO:CD	2.07	0.65
2:CE:135:THR:HB	2:CE:139:ALA:HA	1.78	0.65
2:CJ:58:LEU:HD22	2:CJ:93:SER:HB3	1.78	0.65
2:CP:135:THR:HB	2:CP:139:ALA:HA	1.77	0.65
2:CW:65:LYS:HB2	3:DJ:135:ARG:HH21	1.61	0.65
2:CZ:65:LYS:HB2	3:Dq:135:ARG:HH21	1.61	0.65
2:CZ:135:THR:HB	2:CZ:139:ALA:HA	1.78	0.65
2:Ch:135:THR:HB	2:Ch:139:ALA:HA	1.78	0.65
2:Cj:209:VAL:H	2:Cj:210:PRO:CD	2.07	0.65
2:Ck:58:LEU:HD22	2:Ck:93:SER:HB3	1.78	0.65
2:Co:65:LYS:HB2	3:DR:135:ARG:HH21	1.61	0.65
2:Co:135:THR:HB	2:Co:139:ALA:HA	1.78	0.65
2:Cx:65:LYS:HB2	3:Do:135:ARG:HH21	1.61	0.65
2:Cx:209:VAL:H	2:Cx:210:PRO:CD	2.07	0.65
3:D1:132:PRO:HG2	3:D1:184:GLN:HE22	1.62	0.65
3:D2:56:ILE:O	3:D2:59:LYS:HG2	1.94	0.65
3:D7:42:ASN:O	3:D7:45:ASP:HB2	1.96	0.65
3:DA:42:ASN:O	3:DA:45:ASP:HB2	1.96	0.65
3:DB:119:LYS:HA	3:DB:147:ASP:HA	1.79	0.65
3:DD:42:ASN:O	3:DD:45:ASP:HB2	1.96	0.65
3:DO:53:PHE:CE2	3:DO:205:LEU:HB3	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:53:PHE:CE2	3:DZ:205:LEU:HB3	2.31	0.65
3:DZ:119:LYS:HA	3:DZ:147:ASP:HA	1.79	0.65
3:Db:121:LEU:HD23	3:Db:121:LEU:C	2.22	0.65
3:Dd:42:ASN:O	3:Dd:45:ASP:HB2	1.96	0.65
3:De:121:LEU:HD23	3:De:121:LEU:C	2.22	0.65
3:Di:8:VAL:HB	3:Di:10:GLU:HG2	1.77	0.65
3:Do:119:LYS:HA	3:Do:147:ASP:HA	1.79	0.65
3:Do:121:LEU:HD23	3:Do:121:LEU:C	2.22	0.65
3:Dr:119:LYS:HA	3:Dr:147:ASP:HA	1.79	0.65
3:EA:66:ASN:HA	3:EA:190:ALA:HB1	1.77	0.65
3:ED:42:ASN:O	3:ED:45:ASP:HB2	1.96	0.65
3:ED:119:LYS:HA	3:ED:147:ASP:HA	1.79	0.65
3:ED:121:LEU:HD23	3:ED:121:LEU:C	2.22	0.65
1:A0:209:LEU:HD13	1:A0:210:ARG:H	1.61	0.65
1:A6:59:PRO:O	1:A6:72:LEU:HD13	1.97	0.65
1:A9:88:PHE:CZ	1:A9:205:GLY:HA3	2.30	0.65
1:AA:88:PHE:CZ	1:AA:205:GLY:HA3	2.30	0.65
1:AB:59:PRO:O	1:AB:72:LEU:HD13	1.96	0.65
1:AC:187:LEU:CD2	1:AC:188:PRO:HD2	2.25	0.65
1:AN:88:PHE:CZ	1:AN:205:GLY:HA3	2.31	0.65
1:AY:121:LEU:HD11	1:AZ:206:GLY:N	2.11	0.65
1:Ad:88:PHE:CZ	1:Ad:205:GLY:HA3	2.30	0.65
1:Ad:209:LEU:HD13	1:Ad:210:ARG:H	1.61	0.65
1:Af:121:LEU:HD11	1:Ag:206:GLY:N	2.11	0.65
1:Ag:88:PHE:CZ	1:Ag:205:GLY:HA3	2.31	0.65
1:Ak:88:PHE:CZ	1:Ak:205:GLY:HA3	2.30	0.65
1:Ak:121:LEU:HD21	1:Al:206:GLY:HA3	1.78	0.65
1:Ao:82:LEU:HD11	1:Ao:211:TYR:CD2	2.26	0.65
1:BB:88:PHE:CZ	1:BB:205:GLY:HA3	2.30	0.65
1:BE:59:PRO:O	1:BE:72:LEU:HD13	1.97	0.65
1:BF:121:LEU:HD11	1:BG:206:GLY:N	2.11	0.65
1:BH:82:LEU:HD11	1:BH:211:TYR:CD2	2.26	0.65
2:C0:65:LYS:HB2	3:DQ:135:ARG:HH21	1.61	0.65
2:CE:58:LEU:HD22	2:CE:93:SER:HB3	1.78	0.65
2:CF:209:VAL:H	2:CF:210:PRO:CD	2.07	0.65
2:CW:135:THR:HB	2:CW:139:ALA:HA	1.78	0.65
2:Cb:135:THR:HB	2:Cb:139:ALA:HA	1.77	0.65
2:Cg:65:LYS:HB2	3:D3:135:ARG:HH21	1.61	0.65
2:Ck:135:THR:HB	2:Ck:139:ALA:HA	1.77	0.65
2:Cp:58:LEU:HD22	2:Cp:93:SER:HB3	1.78	0.65
3:D6:121:LEU:HD23	3:D6:121:LEU:C	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:132:PRO:HG2	3:D9:184:GLN:HE22	1.62	0.65
3:DC:19:PRO:O	3:DC:20:ASP:HB2	1.94	0.65
3:DI:42:ASN:O	3:DI:45:ASP:HB2	1.96	0.65
3:DJ:83:ALA:O	3:DJ:86:HIS:HB3	1.96	0.65
3:DJ:121:LEU:HD23	3:DJ:121:LEU:C	2.22	0.65
3:DM:119:LYS:HA	3:DM:147:ASP:HA	1.79	0.65
3:DN:83:ALA:O	3:DN:86:HIS:HB3	1.96	0.65
3:DT:132:PRO:HG2	3:DT:184:GLN:HE22	1.62	0.65
3:DV:121:LEU:HD23	3:DV:121:LEU:C	2.22	0.65
3:DY:132:PRO:HG2	3:DY:184:GLN:HE22	1.62	0.65
3:Dd:83:ALA:O	3:Dd:86:HIS:HB3	1.96	0.65
3:De:42:ASN:O	3:De:45:ASP:HB2	1.96	0.65
3:Df:42:ASN:O	3:Df:45:ASP:HB2	1.96	0.65
3:Df:119:LYS:HA	3:Df:147:ASP:HA	1.79	0.65
3:Dh:42:ASN:O	3:Dh:45:ASP:HB2	1.96	0.65
3:Dp:83:ALA:O	3:Dp:86:HIS:HB3	1.96	0.65
3:Dq:8:VAL:HB	3:Dq:10:GLU:HG2	1.77	0.65
3:Dr:8:VAL:HB	3:Dr:10:GLU:HG2	1.77	0.65
3:Ds:53:PHE:CE2	3:Ds:205:LEU:HB3	2.31	0.65
3:EB:121:LEU:HD23	3:EB:121:LEU:C	2.22	0.65
3:EE:121:LEU:C	3:EE:121:LEU:HD23	2.21	0.65
1:A0:187:LEU:CD2	1:A0:188:PRO:HD2	2.25	0.65
1:A2:121:LEU:HD21	1:AY:206:GLY:HA3	1.78	0.65
1:A3:121:LEU:HD21	1:A4:206:GLY:HA3	1.78	0.65
1:A4:82:LEU:HD11	1:A4:211:TYR:CD2	2.26	0.65
1:A5:164:TRP:HZ2	1:A5:187:LEU:HD21	1.58	0.65
1:A8:242:ASN:HD22	1:Ab:110:GLY:N	1.95	0.65
1:A9:77:TYR:HD1	1:A9:168:PRO:HA	1.60	0.65
1:A9:110:GLY:N	1:An:242:ASN:HD22	1.95	0.65
1:A9:121:LEU:HD11	1:An:206:GLY:N	2.11	0.65
1:AF:110:GLY:N	1:AG:242:ASN:HD22	1.95	0.65
1:AK:242:ASN:HD22	1:AO:110:GLY:N	1.95	0.65
1:AM:88:PHE:CZ	1:AM:205:GLY:HA3	2.31	0.65
1:AN:110:GLY:N	1:AO:242:ASN:HD22	1.95	0.65
1:AW:209:LEU:HD13	1:AW:210:ARG:H	1.61	0.65
1:Aa:121:LEU:HD11	1:Ab:206:GLY:N	2.11	0.65
1:Ac:206:GLY:N	1:Ag:121:LEU:HD11	2.11	0.65
1:Ac:209:LEU:HD13	1:Ac:210:ARG:H	1.61	0.65
1:Ah:110:GLY:N	1:Ai:242:ASN:HD22	1.95	0.65
1:Ak:209:LEU:HD13	1:Ak:210:ARG:H	1.61	0.65
1:Am:59:PRO:O	1:Am:72:LEU:HD13	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:78:PHE:O	1:Am:167:VAL:HB	1.96	0.65
1:BA:110:GLY:N	1:BB:242:ASN:HD22	1.95	0.65
1:BA:121:LEU:HD11	1:BB:206:GLY:N	2.11	0.65
1:BA:121:LEU:HD21	1:BB:206:GLY:HA3	1.78	0.65
1:BA:164:TRP:HZ2	1:BA:187:LEU:HD21	1.58	0.65
1:BD:59:PRO:O	1:BD:72:LEU:HD13	1.97	0.65
1:BG:110:GLY:N	1:BH:242:ASN:HD22	1.95	0.65
2:C6:135:THR:HB	2:C6:139:ALA:HA	1.78	0.65
2:CV:65:LYS:HB2	3:DB:135:ARG:HH21	1.61	0.65
2:CX:65:LYS:HB2	3:Dr:135:ARG:HH21	1.61	0.65
2:Ch:209:VAL:H	2:Ch:210:PRO:CD	2.07	0.65
2:Cq:135:THR:HB	2:Cq:139:ALA:HA	1.78	0.65
3:D0:42:ASN:O	3:D0:45:ASP:HB2	1.96	0.65
3:D3:42:ASN:O	3:D3:45:ASP:HB2	1.96	0.65
3:D7:132:PRO:HG2	3:D7:184:GLN:HE22	1.62	0.65
3:D8:132:PRO:HG2	3:D8:184:GLN:HE22	1.62	0.65
3:DC:42:ASN:O	3:DC:45:ASP:HB2	1.96	0.65
3:DG:132:PRO:HG2	3:DG:184:GLN:HE22	1.62	0.65
3:DK:132:PRO:HG2	3:DK:184:GLN:HE22	1.62	0.65
3:DN:119:LYS:HA	3:DN:147:ASP:HA	1.79	0.65
3:DP:42:ASN:O	3:DP:45:ASP:HB2	1.96	0.65
3:DP:132:PRO:HG2	3:DP:184:GLN:HE22	1.62	0.65
3:DR:42:ASN:O	3:DR:45:ASP:HB2	1.96	0.65
3:DS:119:LYS:HA	3:DS:147:ASP:HA	1.79	0.65
3:Dd:121:LEU:HD23	3:Dd:121:LEU:C	2.22	0.65
3:Dd:132:PRO:HG2	3:Dd:184:GLN:HE22	1.62	0.65
3:Dj:119:LYS:HA	3:Dj:147:ASP:HA	1.79	0.65
3:Dj:121:LEU:HD23	3:Dj:121:LEU:C	2.22	0.65
3:Dm:132:PRO:HG2	3:Dm:184:GLN:HE22	1.62	0.65
3:Dn:42:ASN:O	3:Dn:45:ASP:HB2	1.96	0.65
3:EA:121:LEU:HD23	3:EA:121:LEU:C	2.22	0.65
1:A2:187:LEU:CD2	1:A2:188:PRO:HD2	2.25	0.65
1:A5:121:LEU:HD11	1:A6:206:GLY:N	2.11	0.65
1:AA:164:TRP:HZ2	1:AA:187:LEU:HD21	1.58	0.65
1:AB:209:LEU:HD13	1:AB:210:ARG:H	1.61	0.65
1:AH:59:PRO:O	1:AH:72:LEU:HD13	1.97	0.65
1:AH:78:PHE:O	1:AH:167:VAL:HB	1.96	0.65
1:AK:143:VAL:H	3:DL:14:PHE:HB3	1.62	0.65
1:AR:209:LEU:HD13	1:AR:210:ARG:H	1.61	0.65
1:AS:206:GLY:N	1:Ao:121:LEU:HD11	2.11	0.65
1:AS:209:LEU:HD13	1:AS:210:ARG:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:121:LEU:HD21	1:AU:206:GLY:HA3	1.78	0.65
1:AU:187:LEU:CD2	1:AU:188:PRO:HD2	2.25	0.65
1:AV:121:LEU:HD11	1:AW:206:GLY:N	2.11	0.65
1:AY:110:GLY:N	1:AZ:242:ASN:HD22	1.95	0.65
1:Aa:59:PRO:O	1:Aa:72:LEU:HD13	1.97	0.65
1:Aa:88:PHE:CZ	1:Aa:205:GLY:HA3	2.31	0.65
1:Ab:59:PRO:O	1:Ab:72:LEU:HD13	1.97	0.65
1:Ab:143:VAL:H	3:D9:14:PHE:HB3	1.62	0.65
1:Ac:110:GLY:N	1:Ad:242:ASN:HD22	1.95	0.65
1:Ad:110:GLY:N	1:Ae:242:ASN:HD22	1.95	0.65
1:Ai:78:PHE:O	1:Ai:167:VAL:HB	1.96	0.65
1:BF:59:PRO:O	1:BF:72:LEU:HD13	1.97	0.65
2:C1:65:LYS:HB2	3:DO:135:ARG:HH21	1.61	0.65
2:C3:65:LYS:HB2	3:DU:135:ARG:HH21	1.61	0.65
2:CC:58:LEU:HD22	2:CC:93:SER:HB3	1.78	0.65
2:CX:135:THR:HB	2:CX:139:ALA:HA	1.78	0.65
2:Cd:115:ASN:C	3:D4:119:LYS:HZ3	2.04	0.65
2:Ce:58:LEU:HD22	2:Ce:93:SER:HB3	1.78	0.65
2:Cf:58:LEU:HD22	2:Cf:93:SER:HB3	1.78	0.65
2:Ci:223:ASN:HD22	2:Ci:223:ASN:H	1.41	0.65
2:Ck:209:VAL:H	2:Ck:210:PRO:CD	2.07	0.65
2:Cs:135:THR:HB	2:Cs:139:ALA:HA	1.78	0.65
3:D2:132:PRO:HG2	3:D2:184:GLN:HE22	1.62	0.65
3:DN:121:LEU:HD23	3:DN:121:LEU:C	2.22	0.65
3:DS:121:LEU:HD23	3:DS:121:LEU:C	2.22	0.65
3:DX:119:LYS:HA	3:DX:147:ASP:HA	1.79	0.65
3:DY:119:LYS:HA	3:DY:147:ASP:HA	1.79	0.65
3:Da:132:PRO:HG2	3:Da:184:GLN:HE22	1.62	0.65
3:Dg:53:PHE:CE2	3:Dg:205:LEU:HB3	2.31	0.65
3:Dg:83:ALA:O	3:Dg:86:HIS:HB3	1.96	0.65
3:Dg:121:LEU:HD23	3:Dg:121:LEU:C	2.22	0.65
3:Dh:132:PRO:HG2	3:Dh:184:GLN:HE22	1.62	0.65
3:Di:132:PRO:HG2	3:Di:184:GLN:HE22	1.62	0.65
3:Dp:119:LYS:HA	3:Dp:147:ASP:HA	1.79	0.65
3:EC:132:PRO:HG2	3:EC:184:GLN:HE22	1.62	0.65
3:EE:53:PHE:CE2	3:EE:205:LEU:HB3	2.31	0.65
1:A0:110:GLY:H	1:A1:242:ASN:HD22	1.43	0.65
1:A9:59:PRO:O	1:A9:72:LEU:HD13	1.97	0.65
1:AC:110:GLY:N	1:AD:242:ASN:HD22	1.95	0.65
1:AF:206:GLY:HA3	1:AJ:121:LEU:HD21	1.78	0.65
1:AK:121:LEU:HD11	1:AL:206:GLY:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:78:PHE:O	1:AN:167:VAL:HB	1.96	0.65
1:AQ:78:PHE:O	1:AQ:167:VAL:HB	1.96	0.65
1:AQ:143:VAL:H	3:DR:14:PHE:HB3	1.62	0.65
1:AS:59:PRO:O	1:AS:72:LEU:HD13	1.96	0.65
1:AT:242:ASN:HD22	1:AX:110:GLY:N	1.95	0.65
1:AW:59:PRO:O	1:AW:72:LEU:HD13	1.96	0.65
1:AW:187:LEU:CD2	1:AW:188:PRO:HD2	2.25	0.65
1:Aa:242:ASN:HD22	1:An:110:GLY:N	1.95	0.65
1:Ae:78:PHE:O	1:Ae:167:VAL:HB	1.96	0.65
1:Ag:82:LEU:HD11	1:Ag:211:TYR:CD2	2.26	0.65
1:Ai:59:PRO:O	1:Ai:72:LEU:HD13	1.96	0.65
1:Aj:209:LEU:HD13	1:Aj:210:ARG:H	1.61	0.65
1:Ak:143:VAL:H	3:Dn:14:PHE:HB3	1.62	0.65
1:Al:77:TYR:HD1	1:Al:168:PRO:HA	1.60	0.65
1:BA:209:LEU:HD13	1:BA:210:ARG:H	1.61	0.65
1:BC:78:PHE:O	1:BC:167:VAL:HB	1.96	0.65
2:C1:58:LEU:HD22	2:C1:93:SER:HB3	1.78	0.65
2:CG:115:ASN:C	3:EB:119:LYS:HZ3	2.04	0.65
2:CI:209:VAL:H	2:CI:210:PRO:CD	2.07	0.65
2:CJ:65:LYS:HB2	3:DA:135:ARG:HH21	1.61	0.65
2:CK:135:THR:HB	2:CK:139:ALA:HA	1.78	0.65
2:CL:58:LEU:HD22	2:CL:93:SER:HB3	1.78	0.65
2:CT:209:VAL:H	2:CT:210:PRO:CD	2.07	0.65
2:Cs:115:ASN:C	3:EA:119:LYS:HZ3	2.04	0.65
3:DD:19:PRO:O	3:DD:20:ASP:HB2	1.94	0.65
3:DG:8:VAL:HB	3:DG:10:GLU:HG2	1.77	0.65
3:DH:42:ASN:O	3:DH:45:ASP:HB2	1.96	0.65
3:DI:115:ALA:HB1	3:DI:194:THR:OG1	1.97	0.65
3:DJ:53:PHE:CE2	3:DJ:205:LEU:HB3	2.31	0.65
3:DL:83:ALA:O	3:DL:86:HIS:HB3	1.96	0.65
3:DL:132:PRO:HG2	3:DL:184:GLN:HE22	1.62	0.65
3:DN:132:PRO:HG2	3:DN:184:GLN:HE22	1.62	0.65
3:DW:119:LYS:HA	3:DW:147:ASP:HA	1.79	0.65
3:De:19:PRO:O	3:De:20:ASP:HB2	1.94	0.65
3:Dg:19:PRO:O	3:Dg:20:ASP:HB2	1.94	0.65
3:Dm:42:ASN:O	3:Dm:45:ASP:HB2	1.96	0.65
3:Dm:119:LYS:HA	3:Dm:147:ASP:HA	1.79	0.65
3:Do:132:PRO:HG2	3:Do:184:GLN:HE22	1.62	0.65
1:A0:121:LEU:HD11	1:A1:206:GLY:N	2.11	0.64
1:A2:143:VAL:H	3:DZ:14:PHE:HB3	1.62	0.64
1:A4:121:LEU:HD11	1:A5:206:GLY:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:78:PHE:O	1:A6:167:VAL:HB	1.96	0.64
1:A6:110:GLY:N	1:A7:242:ASN:HD22	1.95	0.64
1:A8:206:GLY:N	1:Ab:121:LEU:HD11	2.11	0.64
1:AA:78:PHE:O	1:AA:167:VAL:HB	1.96	0.64
1:AC:59:PRO:O	1:AC:72:LEU:HD13	1.96	0.64
1:AE:59:PRO:O	1:AE:72:LEU:HD13	1.97	0.64
1:AL:110:GLY:H	1:AM:242:ASN:HD22	1.43	0.64
1:AO:143:VAL:H	3:DK:14:PHE:HB3	1.62	0.64
1:AR:143:VAL:H	3:DS:14:PHE:HB3	1.62	0.64
1:AS:130:ILE:CD1	1:AS:135:VAL:HG12	2.24	0.64
1:AZ:143:VAL:H	3:D1:14:PHE:HB3	1.62	0.64
1:Ad:121:LEU:HD21	1:Ae:206:GLY:HA3	1.78	0.64
1:Aj:121:LEU:HD21	1:Ak:206:GLY:HA3	1.78	0.64
1:Ak:121:LEU:HD11	1:Al:206:GLY:N	2.11	0.64
1:Al:209:LEU:HD13	1:Al:210:ARG:H	1.61	0.64
1:Am:143:VAL:H	3:Dp:14:PHE:HB3	1.62	0.64
1:BB:59:PRO:O	1:BB:72:LEU:HD13	1.96	0.64
1:BB:121:LEU:HD11	1:BC:206:GLY:N	2.11	0.64
1:BD:77:TYR:HD1	1:BD:168:PRO:HA	1.60	0.64
2:C6:115:ASN:C	3:DE:119:LYS:HZ3	2.05	0.64
2:CF:120:HIS:HA	2:CF:203:THR:O	1.98	0.64
2:CU:58:LEU:HD22	2:CU:93:SER:HB3	1.78	0.64
2:CY:58:LEU:HD22	2:CY:93:SER:HB3	1.78	0.64
2:CY:135:THR:HB	2:CY:139:ALA:HA	1.78	0.64
2:CY:209:VAL:H	2:CY:210:PRO:CD	2.07	0.64
2:Cb:58:LEU:HD22	2:Cb:93:SER:HB3	1.78	0.64
2:Cd:120:HIS:HA	2:Cd:203:THR:O	1.98	0.64
2:Cl:65:LYS:HB2	3:D8:135:ARG:HH21	1.61	0.64
2:Cn:135:THR:HB	2:Cn:139:ALA:HA	1.78	0.64
2:Ct:135:THR:HB	2:Ct:139:ALA:HA	1.78	0.64
2:Cx:58:LEU:HD22	2:Cx:93:SER:HB3	1.78	0.64
2:Cx:135:THR:HB	2:Cx:139:ALA:HA	1.77	0.64
3:D0:119:LYS:HA	3:D0:147:ASP:HA	1.79	0.64
3:D1:42:ASN:O	3:D1:45:ASP:HB2	1.96	0.64
3:DA:115:ALA:HB1	3:DA:194:THR:OG1	1.98	0.64
3:DP:115:ALA:HB1	3:DP:194:THR:OG1	1.98	0.64
3:DR:119:LYS:HA	3:DR:147:ASP:HA	1.79	0.64
3:DS:8:VAL:HB	3:DS:10:GLU:HG2	1.77	0.64
3:DU:119:LYS:HA	3:DU:147:ASP:HA	1.79	0.64
3:Dr:42:ASN:O	3:Dr:45:ASP:HB2	1.96	0.64
3:EC:53:PHE:CE2	3:EC:205:LEU:HB3	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:119:LYS:HA	3:EE:147:ASP:HA	1.79	0.64
1:A1:59:PRO:O	1:A1:72:LEU:HD13	1.97	0.64
1:A8:164:TRP:HZ2	1:A8:187:LEU:HD21	1.58	0.64
1:AA:110:GLY:N	1:AB:242:ASN:HD22	1.95	0.64
1:AA:143:VAL:H	3:DB:14:PHE:HB3	1.62	0.64
1:AH:143:VAL:H	3:DI:14:PHE:HB3	1.62	0.64
1:AI:209:LEU:HD13	1:AI:210:ARG:H	1.61	0.64
1:AK:78:PHE:O	1:AK:167:VAL:HB	1.96	0.64
1:AK:110:GLY:N	1:AL:242:ASN:HD22	1.95	0.64
1:AK:187:LEU:CD2	1:AK:188:PRO:HD2	2.25	0.64
1:AN:143:VAL:H	3:DO:14:PHE:HB3	1.62	0.64
1:AO:59:PRO:O	1:AO:72:LEU:HD13	1.97	0.64
1:AO:88:PHE:CZ	1:AO:205:GLY:HA3	2.31	0.64
1:AS:242:ASN:HD22	1:Ao:110:GLY:H	1.43	0.64
1:AT:59:PRO:O	1:AT:72:LEU:HD13	1.97	0.64
1:AU:110:GLY:N	1:AV:242:ASN:HD22	1.95	0.64
1:AY:59:PRO:O	1:AY:72:LEU:HD13	1.96	0.64
1:AY:82:LEU:HD11	1:AY:211:TYR:CD2	2.26	0.64
1:Ae:110:GLY:N	1:Af:242:ASN:HD22	1.95	0.64
1:Af:82:LEU:HD11	1:Af:211:TYR:CD2	2.26	0.64
1:An:59:PRO:O	1:An:72:LEU:HD13	1.97	0.64
2:C0:115:ASN:C	3:DQ:119:LYS:HZ3	2.05	0.64
2:C8:58:LEU:HD22	2:C8:93:SER:HB3	1.78	0.64
2:CB:209:VAL:H	2:CB:210:PRO:CD	2.07	0.64
2:Cb:209:VAL:H	2:Cb:210:PRO:CD	2.07	0.64
2:Cl:120:HIS:HA	2:Cl:203:THR:O	1.98	0.64
2:Cn:120:HIS:HA	2:Cn:203:THR:O	1.98	0.64
2:Cq:65:LYS:HB2	3:DY:135:ARG:HH21	1.61	0.64
2:Ct:58:LEU:HD22	2:Ct:93:SER:HB3	1.78	0.64
2:Cu:65:LYS:HB2	3:D5:135:ARG:HH21	1.61	0.64
3:D4:115:ALA:HB1	3:D4:194:THR:OG1	1.97	0.64
3:D6:53:PHE:CE2	3:D6:205:LEU:HB3	2.31	0.64
3:D6:115:ALA:HB1	3:D6:194:THR:OG1	1.98	0.64
3:DD:83:ALA:O	3:DD:86:HIS:HB3	1.96	0.64
3:DG:119:LYS:HA	3:DG:147:ASP:HA	1.79	0.64
3:DI:121:LEU:HD23	3:DI:121:LEU:C	2.22	0.64
3:DL:66:ASN:HA	3:DL:190:ALA:HB1	1.77	0.64
3:DO:119:LYS:HA	3:DO:147:ASP:HA	1.79	0.64
3:Dd:119:LYS:HA	3:Dd:147:ASP:HA	1.79	0.64
3:Df:132:PRO:HG2	3:Df:184:GLN:HE22	1.62	0.64
3:Dg:115:ALA:HB1	3:Dg:194:THR:OG1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dp:121:LEU:HD23	3:Dp:121:LEU:C	2.22	0.64
3:Ds:115:ALA:HB1	3:Ds:194:THR:OG1	1.98	0.64
3:EE:83:ALA:O	3:EE:86:HIS:HB3	1.96	0.64
1:A0:110:GLY:N	1:A1:242:ASN:HD22	1.95	0.64
1:A0:143:VAL:H	3:D2:14:PHE:HB3	1.62	0.64
1:A0:206:GLY:N	1:AZ:121:LEU:HD11	2.11	0.64
1:A2:59:PRO:O	1:A2:72:LEU:HD13	1.97	0.64
1:A3:78:PHE:O	1:A3:167:VAL:HB	1.96	0.64
1:A5:110:GLY:N	1:A6:242:ASN:HD22	1.95	0.64
1:A5:143:VAL:H	3:D7:14:PHE:HB3	1.62	0.64
1:A7:143:VAL:H	3:D4:14:PHE:HB3	1.62	0.64
1:AF:121:LEU:HD21	1:AG:206:GLY:HA3	1.78	0.64
1:AI:110:GLY:N	1:AJ:242:ASN:HD22	1.95	0.64
1:AM:110:GLY:N	1:AN:242:ASN:HD22	1.95	0.64
1:AQ:88:PHE:CZ	1:AQ:205:GLY:HA3	2.31	0.64
1:AR:78:PHE:O	1:AR:167:VAL:HB	1.96	0.64
1:AS:143:VAL:H	3:DP:14:PHE:HB3	1.62	0.64
1:AS:242:ASN:HD22	1:Ao:110:GLY:N	1.95	0.64
1:AT:143:VAL:H	3:DV:14:PHE:HB3	1.62	0.64
1:Ad:121:LEU:HD11	1:Ae:206:GLY:N	2.11	0.64
1:Ai:143:VAL:H	3:DI:14:PHE:HB3	1.62	0.64
1:Al:59:PRO:O	1:Al:72:LEU:HD13	1.97	0.64
1:Ao:78:PHE:O	1:Ao:167:VAL:HB	1.96	0.64
1:BA:82:LEU:HD11	1:BA:211:TYR:CD2	2.26	0.64
1:BB:110:GLY:N	1:BC:242:ASN:HD22	1.95	0.64
1:BC:59:PRO:O	1:BC:72:LEU:HD13	1.97	0.64
1:BE:110:GLY:H	1:BF:242:ASN:HD22	1.43	0.64
2:CF:58:LEU:HD22	2:CF:93:SER:HB3	1.78	0.64
2:CG:58:LEU:HD22	2:CG:93:SER:HB3	1.78	0.64
2:CI:58:LEU:HD22	2:CI:93:SER:HB3	1.78	0.64
2:CR:135:THR:HB	2:CR:139:ALA:HA	1.78	0.64
2:Cc:65:LYS:HB2	3:ED:135:ARG:HH21	1.61	0.64
2:Cf:135:THR:HB	2:Cf:139:ALA:HA	1.78	0.64
2:Cn:65:LYS:HB2	3:De:135:ARG:HH21	1.61	0.64
3:D1:121:LEU:HD23	3:D1:121:LEU:C	2.21	0.64
3:D3:119:LYS:HA	3:D3:147:ASP:HA	1.79	0.64
3:D4:121:LEU:HD23	3:D4:121:LEU:C	2.22	0.64
3:D5:121:LEU:HD23	3:D5:121:LEU:C	2.22	0.64
3:D8:119:LYS:HA	3:D8:147:ASP:HA	1.79	0.64
3:DC:66:ASN:HA	3:DC:190:ALA:HB1	1.77	0.64
3:DF:115:ALA:HB1	3:DF:194:THR:OG1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:132:PRO:HG2	3:DF:184:GLN:HE22	1.62	0.64
3:DH:132:PRO:HG2	3:DH:184:GLN:HE22	1.62	0.64
3:DM:121:LEU:HD23	3:DM:121:LEU:C	2.22	0.64
3:DO:115:ALA:HB1	3:DO:194:THR:OG1	1.98	0.64
3:DP:119:LYS:HA	3:DP:147:ASP:HA	1.79	0.64
3:DP:121:LEU:HD23	3:DP:121:LEU:C	2.22	0.64
3:DQ:119:LYS:HA	3:DQ:147:ASP:HA	1.79	0.64
3:DU:115:ALA:HB1	3:DU:194:THR:OG1	1.97	0.64
3:DV:115:ALA:HB1	3:DV:194:THR:OG1	1.97	0.64
3:Da:119:LYS:HA	3:Da:147:ASP:HA	1.79	0.64
3:Dn:53:PHE:CE2	3:Dn:205:LEU:HB3	2.31	0.64
3:Dp:53:PHE:CE2	3:Dp:205:LEU:HB3	2.31	0.64
1:A3:143:VAL:H	3:D5:14:PHE:HB3	1.62	0.64
1:A6:209:LEU:HD13	1:A6:210:ARG:H	1.61	0.64
1:AD:121:LEU:HD21	1:AE:206:GLY:HA3	1.78	0.64
1:AG:59:PRO:O	1:AG:72:LEU:HD13	1.97	0.64
1:AG:121:LEU:HD11	1:AH:206:GLY:N	2.11	0.64
1:AK:206:GLY:HA3	1:AO:121:LEU:HD21	1.78	0.64
1:AN:121:LEU:HD21	1:AO:206:GLY:HA3	1.78	0.64
1:AQ:110:GLY:N	1:AR:242:ASN:HD22	1.95	0.64
1:AV:143:VAL:H	3:DX:14:PHE:HB3	1.62	0.64
1:AZ:59:PRO:O	1:AZ:72:LEU:HD13	1.97	0.64
1:Ac:143:VAL:H	3:Df:14:PHE:HB3	1.62	0.64
1:Ah:164:TRP:HZ2	1:Ah:187:LEU:HD21	1.58	0.64
1:Al:78:PHE:O	1:Al:167:VAL:HB	1.96	0.64
1:BE:110:GLY:N	1:BF:242:ASN:HD22	1.95	0.64
2:C0:58:LEU:HD22	2:C0:93:SER:HB3	1.78	0.64
2:C1:120:HIS:HA	2:C1:203:THR:O	1.98	0.64
2:C2:65:LYS:HB2	3:Dh:135:ARG:HH21	1.61	0.64
2:C5:117:SER:HB3	3:DG:192:THR:HG22	1.80	0.64
2:C8:120:HIS:HA	2:C8:203:THR:O	1.98	0.64
2:CB:117:SER:HB3	3:Df:192:THR:HG22	1.80	0.64
2:CG:65:LYS:HB2	3:EB:135:ARG:HH21	1.61	0.64
2:CG:120:HIS:HA	2:CG:203:THR:O	1.98	0.64
2:CH:117:SER:HB3	3:Ds:192:THR:HG22	1.80	0.64
2:CO:120:HIS:HA	2:CO:203:THR:O	1.98	0.64
2:CP:120:HIS:HA	2:CP:203:THR:O	1.98	0.64
2:CR:120:HIS:HA	2:CR:203:THR:O	1.98	0.64
2:CS:117:SER:HB3	3:Dc:192:THR:HG22	1.80	0.64
2:CS:135:THR:HB	2:CS:139:ALA:HA	1.78	0.64
2:CT:120:HIS:HA	2:CT:203:THR:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ce:135:THR:HB	2:Ce:139:ALA:HA	1.77	0.64
2:Cg:120:HIS:HA	2:Cg:203:THR:O	1.98	0.64
2:Cn:117:SER:HB3	3:De:192:THR:HG22	1.80	0.64
2:Cq:58:LEU:HD22	2:Cq:93:SER:HB3	1.78	0.64
3:D4:132:PRO:HG2	3:D4:184:GLN:HE22	1.62	0.64
3:DC:119:LYS:HA	3:DC:147:ASP:HA	1.79	0.64
3:DG:115:ALA:HB1	3:DG:194:THR:OG1	1.98	0.64
3:DH:119:LYS:HA	3:DH:147:ASP:HA	1.79	0.64
3:DK:115:ALA:HB1	3:DK:194:THR:OG1	1.98	0.64
3:DN:115:ALA:HB1	3:DN:194:THR:OG1	1.98	0.64
3:DX:132:PRO:HG2	3:DX:184:GLN:HE22	1.62	0.64
3:Da:83:ALA:O	3:Da:86:HIS:HB3	1.96	0.64
3:De:132:PRO:HG2	3:De:184:GLN:HE22	1.62	0.64
3:Di:115:ALA:HB1	3:Di:194:THR:OG1	1.98	0.64
3:Di:132:PRO:HG2	3:Di:184:GLN:HE22	1.62	0.64
3:Dr:115:ALA:HB1	3:Dr:194:THR:OG1	1.98	0.64
3:EC:119:LYS:HA	3:EC:147:ASP:HA	1.79	0.64
3:ED:115:ALA:HB1	3:ED:194:THR:OG1	1.98	0.64
1:A0:59:PRO:O	1:A0:72:LEU:HD13	1.97	0.64
1:A4:143:VAL:H	3:D6:14:PHE:HB3	1.62	0.64
1:A6:87:GLN:O	1:A6:88:PHE:HB3	1.98	0.64
1:A8:59:PRO:O	1:A8:72:LEU:HD13	1.97	0.64
1:A9:143:VAL:H	3:Db:14:PHE:HB3	1.62	0.64
1:AB:88:PHE:CE1	1:AB:205:GLY:CA	2.81	0.64
1:AC:143:VAL:H	3:DD:14:PHE:HB3	1.63	0.64
1:AE:143:VAL:H	3:DA:14:PHE:HB3	1.62	0.64
1:AE:187:LEU:CD2	1:AE:188:PRO:HD2	2.25	0.64
1:AH:121:LEU:HD11	1:AI:206:GLY:N	2.11	0.64
1:AK:59:PRO:O	1:AK:72:LEU:HD13	1.96	0.64
1:AX:187:LEU:CD2	1:AX:188:PRO:HD2	2.25	0.64
1:Ab:88:PHE:CE1	1:Ab:205:GLY:CA	2.81	0.64
1:Ag:78:PHE:O	1:Ag:167:VAL:HB	1.96	0.64
1:Ao:164:TRP:HZ2	1:Ao:187:LEU:HD21	1.58	0.64
1:BC:110:GLY:N	1:BD:242:ASN:HD22	1.95	0.64
1:BC:164:TRP:HZ2	1:BC:187:LEU:HD21	1.58	0.64
1:BG:143:VAL:H	3:ED:14:PHE:HB3	1.62	0.64
1:BH:143:VAL:H	3:EE:14:PHE:HB3	1.62	0.64
1:BI:87:GLN:O	1:BI:88:PHE:HB3	1.98	0.64
2:C7:120:HIS:HA	2:C7:203:THR:O	1.98	0.64
2:CA:120:HIS:HA	2:CA:203:THR:O	1.98	0.64
2:CD:65:LYS:HB2	3:D7:135:ARG:HH21	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:117:SER:HB3	3:DF:192:THR:HG22	1.80	0.64
2:CH:209:VAL:H	2:CH:210:PRO:CD	2.07	0.64
2:CI:120:HIS:HA	2:CI:203:THR:O	1.98	0.64
2:CL:65:LYS:HB2	3:Dk:135:ARG:HH21	1.61	0.64
2:CM:115:ASN:C	3:Di:119:LYS:HZ3	2.04	0.64
2:CP:32:THR:HG23	2:CP:172:HIS:CE1	2.33	0.64
2:CW:115:ASN:C	3:DJ:119:LYS:HZ3	2.05	0.64
2:CW:120:HIS:HA	2:CW:203:THR:O	1.98	0.64
2:CX:117:SER:HB3	3:Dr:192:THR:HG22	1.80	0.64
2:CZ:117:SER:HB3	3:Dq:192:THR:HG22	1.80	0.64
2:Cs:117:SER:HB3	3:EA:192:THR:HG22	1.80	0.64
2:Cv:117:SER:HB3	3:Dd:192:THR:HG22	1.80	0.64
2:Cw:115:ASN:C	3:DS:119:LYS:HZ3	2.05	0.64
2:Cx:117:SER:HB3	3:Do:192:THR:HG22	1.80	0.64
3:D2:115:ALA:HB1	3:D2:194:THR:OG1	1.98	0.64
3:DD:53:PHE:CE2	3:DD:205:LEU:HB3	2.31	0.64
3:DD:132:PRO:HG2	3:DD:184:GLN:HE22	1.62	0.64
3:DH:115:ALA:HB1	3:DH:194:THR:OG1	1.98	0.64
3:DL:121:LEU:HD23	3:DL:121:LEU:C	2.22	0.64
3:DS:115:ALA:HB1	3:DS:194:THR:OG1	1.98	0.64
3:DU:121:LEU:HD23	3:DU:121:LEU:C	2.22	0.64
3:DW:115:ALA:HB1	3:DW:194:THR:OG1	1.98	0.64
3:Da:115:ALA:HB1	3:Da:194:THR:OG1	1.98	0.64
3:Dc:83:ALA:O	3:Dc:86:HIS:HB3	1.96	0.64
3:Dd:115:ALA:HB1	3:Dd:194:THR:OG1	1.98	0.64
3:Dl:66:ASN:HA	3:Dl:190:ALA:HB1	1.77	0.64
3:Dm:115:ALA:HB1	3:Dm:194:THR:OG1	1.98	0.64
3:Dn:115:ALA:HB1	3:Dn:194:THR:OG1	1.97	0.64
1:A0:87:GLN:O	1:A0:88:PHE:HB3	1.98	0.64
1:A4:110:GLY:N	1:A5:242:ASN:HD22	1.95	0.64
1:A7:88:PHE:CE1	1:A7:205:GLY:CA	2.81	0.64
1:A8:121:LEU:HD21	1:A9:206:GLY:HA3	1.78	0.64
1:A8:143:VAL:H	3:Da:14:PHE:HB3	1.62	0.64
1:AB:110:GLY:N	1:AC:242:ASN:HD22	1.95	0.64
1:AF:59:PRO:O	1:AF:72:LEU:HD13	1.97	0.64
1:AG:77:TYR:HD1	1:AG:168:PRO:HA	1.60	0.64
1:AM:59:PRO:O	1:AM:72:LEU:HD13	1.96	0.64
1:AN:121:LEU:HD11	1:AO:206:GLY:N	2.11	0.64
1:AO:104:VAL:HG22	1:AO:197:LEU:HD23	1.80	0.64
1:AP:242:ASN:HD22	1:AS:110:GLY:N	1.95	0.64
1:AR:59:PRO:O	1:AR:72:LEU:HD13	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:187:LEU:CD2	1:AS:188:PRO:HD2	2.25	0.64
1:AU:59:PRO:O	1:AU:72:LEU:HD13	1.97	0.64
1:AU:121:LEU:HD11	1:AV:206:GLY:N	2.11	0.64
1:AW:87:GLN:O	1:AW:88:PHE:HB3	1.98	0.64
1:AX:143:VAL:H	3:DU:14:PHE:HB3	1.62	0.64
1:BH:121:LEU:HD11	1:BI:206:GLY:N	2.11	0.64
2:C5:32:THR:HG23	2:C5:172:HIS:CE1	2.33	0.64
2:C7:32:THR:HG23	2:C7:172:HIS:CE1	2.33	0.64
2:C7:58:LEU:HD22	2:C7:93:SER:HB3	1.78	0.64
2:C9:120:HIS:HA	2:C9:203:THR:O	1.98	0.64
2:CC:65:LYS:HB2	3:Dn:135:ARG:HH21	1.61	0.64
2:CF:32:THR:HG23	2:CF:172:HIS:CE1	2.33	0.64
2:CH:135:THR:HB	2:CH:139:ALA:HA	1.78	0.64
2:CJ:117:SER:HB3	3:DA:192:THR:HG22	1.80	0.64
2:CJ:135:THR:HB	2:CJ:139:ALA:HA	1.78	0.64
2:CN:120:HIS:HA	2:CN:203:THR:O	1.98	0.64
2:CQ:120:HIS:HA	2:CQ:203:THR:O	1.98	0.64
2:CT:58:LEU:HD22	2:CT:93:SER:HB3	1.78	0.64
2:CU:120:HIS:HA	2:CU:203:THR:O	1.98	0.64
2:CW:117:SER:HB3	3:DJ:192:THR:HG22	1.80	0.64
2:Ce:117:SER:HB3	3:DC:192:THR:HG22	1.80	0.64
2:Cn:32:THR:HG23	2:Cn:172:HIS:CE1	2.33	0.64
2:Co:120:HIS:HA	2:Co:203:THR:O	1.98	0.64
2:Cw:120:HIS:HA	2:Cw:203:THR:O	1.98	0.64
3:D0:132:PRO:HG2	3:D0:184:GLN:HE22	1.62	0.64
3:D1:115:ALA:HB1	3:D1:194:THR:OG1	1.98	0.64
3:D7:115:ALA:HB1	3:D7:194:THR:OG1	1.98	0.64
3:D8:121:LEU:HD23	3:D8:121:LEU:C	2.22	0.64
3:DB:115:ALA:HB1	3:DB:194:THR:OG1	1.97	0.64
3:DD:115:ALA:HB1	3:DD:194:THR:OG1	1.97	0.64
3:DR:53:PHE:CE2	3:DR:205:LEU:HB3	2.31	0.64
3:DR:132:PRO:HG2	3:DR:184:GLN:HE22	1.62	0.64
3:DV:132:PRO:HG2	3:DV:184:GLN:HE22	1.62	0.64
3:DZ:115:ALA:HB1	3:DZ:194:THR:OG1	1.98	0.64
3:Dm:121:LEU:C	3:Dm:121:LEU:HD23	2.22	0.64
3:Do:115:ALA:HB1	3:Do:194:THR:OG1	1.97	0.64
3:Dq:53:PHE:CE2	3:Dq:205:LEU:HB3	2.31	0.64
3:Dq:121:LEU:HD23	3:Dq:121:LEU:C	2.22	0.64
3:Dr:132:PRO:HG2	3:Dr:184:GLN:HE22	1.62	0.64
1:A0:242:ASN:HD22	1:AZ:110:GLY:N	1.95	0.64
1:A7:209:LEU:HD13	1:A7:210:ARG:H	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:104:VAL:HG22	1:A8:197:LEU:HD23	1.80	0.64
1:AC:104:VAL:HG22	1:AC:197:LEU:HD23	1.80	0.64
1:AD:164:TRP:HZ2	1:AD:187:LEU:HD21	1.58	0.64
1:AE:88:PHE:CE1	1:AE:205:GLY:CA	2.81	0.64
1:AF:78:PHE:O	1:AF:167:VAL:HB	1.96	0.64
1:AF:143:VAL:H	3:DG:14:PHE:HB3	1.62	0.64
1:AG:104:VAL:HG22	1:AG:197:LEU:HD23	1.80	0.64
1:AW:88:PHE:CE1	1:AW:205:GLY:CA	2.81	0.64
1:AW:143:VAL:H	3:DY:14:PHE:HB3	1.62	0.64
1:AY:78:PHE:O	1:AY:167:VAL:HB	1.96	0.64
1:Aa:209:LEU:HD13	1:Aa:210:ARG:H	1.61	0.64
1:Ac:87:GLN:O	1:Ac:88:PHE:HB3	1.98	0.64
1:Ae:110:GLY:H	1:Af:242:ASN:HD22	1.43	0.64
1:Af:104:VAL:HG22	1:Af:197:LEU:HD23	1.80	0.64
1:Af:110:GLY:N	1:Ag:242:ASN:HD22	1.95	0.64
1:Ai:88:PHE:CE1	1:Ai:205:GLY:CA	2.81	0.64
1:Ai:110:GLY:N	1:Aj:242:ASN:HD22	1.95	0.64
1:Ak:77:TYR:HD1	1:Ak:168:PRO:HA	1.60	0.64
1:BA:87:GLN:O	1:BA:88:PHE:HB3	1.98	0.64
1:BG:87:GLN:O	1:BG:88:PHE:HB3	1.98	0.64
2:C1:32:THR:HG23	2:C1:172:HIS:CE1	2.33	0.64
2:C1:209:VAL:H	2:C1:210:PRO:CD	2.07	0.64
2:CB:120:HIS:HA	2:CB:203:THR:O	1.98	0.64
2:CB:135:THR:HB	2:CB:139:ALA:HA	1.78	0.64
2:CE:120:HIS:HA	2:CE:203:THR:O	1.98	0.64
2:CK:120:HIS:HA	2:CK:203:THR:O	1.98	0.64
2:CP:65:LYS:HB2	3:D1:135:ARG:HH21	1.61	0.64
2:CQ:117:SER:HB3	3:Dp:192:THR:HG22	1.80	0.64
2:CS:120:HIS:HA	2:CS:203:THR:O	1.98	0.64
2:CY:120:HIS:HA	2:CY:203:THR:O	1.98	0.64
2:Cc:115:ASN:C	3:ED:119:LYS:HZ3	2.04	0.64
2:Cg:117:SER:HB3	3:D3:192:THR:HG22	1.80	0.64
2:Ck:65:LYS:HB2	3:Da:135:ARG:HH21	1.61	0.64
2:Cm:65:LYS:HB2	3:DD:135:ARG:HH21	1.61	0.64
2:Cp:120:HIS:HA	2:Cp:203:THR:O	1.98	0.64
2:Cq:32:THR:HG23	2:Cq:172:HIS:CE1	2.33	0.64
2:Cr:120:HIS:HA	2:Cr:203:THR:O	1.98	0.64
3:DI:132:PRO:HG2	3:DI:184:GLN:HE22	1.62	0.64
3:DL:115:ALA:HB1	3:DL:194:THR:OG1	1.97	0.64
3:DP:101:ARG:NH1	3:DP:165:ASP:HB3	2.13	0.64
3:DQ:132:PRO:HG2	3:DQ:184:GLN:HE22	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DS:132:PRO:HG2	3:DS:184:GLN:HE22	1.62	0.64
3:DW:53:PHE:CE2	3:DW:205:LEU:HB3	2.31	0.64
3:DX:121:LEU:HD23	3:DX:121:LEU:C	2.22	0.64
3:Dg:101:ARG:NH1	3:Dg:165:ASP:HB3	2.13	0.64
3:Dg:119:LYS:HA	3:Dg:147:ASP:HA	1.79	0.64
3:Dn:119:LYS:HA	3:Dn:147:ASP:HA	1.79	0.64
3:Ds:132:PRO:HG2	3:Ds:184:GLN:HE22	1.62	0.64
3:EB:115:ALA:HB1	3:EB:194:THR:OG1	1.97	0.64
1:A4:164:TRP:HZ2	1:A4:187:LEU:HD21	1.58	0.64
1:A5:104:VAL:HG22	1:A5:197:LEU:HD23	1.80	0.64
1:AA:59:PRO:O	1:AA:72:LEU:HD13	1.97	0.64
1:AA:87:GLN:O	1:AA:88:PHE:HB3	1.98	0.64
1:AF:242:ASN:HD22	1:AJ:110:GLY:N	1.95	0.64
1:AJ:87:GLN:O	1:AJ:88:PHE:HB3	1.98	0.64
1:AJ:104:VAL:HG22	1:AJ:197:LEU:HD23	1.80	0.64
1:AK:164:TRP:HZ2	1:AK:187:LEU:HD21	1.58	0.64
1:AS:87:GLN:O	1:AS:88:PHE:HB3	1.98	0.64
1:Aj:87:GLN:O	1:Aj:88:PHE:HB3	1.98	0.64
1:Al:87:GLN:O	1:Al:88:PHE:HB3	1.98	0.64
1:BB:104:VAL:HG22	1:BB:197:LEU:HD23	1.80	0.64
1:BC:121:LEU:HD11	1:BD:206:GLY:N	2.11	0.64
1:BD:209:LEU:HD13	1:BD:210:ARG:H	1.61	0.64
1:BE:242:ASN:HD22	1:BI:110:GLY:N	1.95	0.64
1:BI:143:VAL:H	3:EA:14:PHE:HB3	1.62	0.64
2:C2:58:LEU:HD22	2:C2:93:SER:HB3	1.78	0.64
2:C2:120:HIS:HA	2:C2:203:THR:O	1.98	0.64
2:C3:117:SER:HB3	3:DU:192:THR:HG22	1.80	0.64
2:C8:32:THR:HG23	2:C8:172:HIS:CE1	2.33	0.64
2:CA:117:SER:HB3	3:DW:192:THR:HG22	1.80	0.64
2:CG:63:THR:H	3:EB:139:MET:HG3	1.63	0.64
2:CR:115:ASN:C	3:EE:119:LYS:HZ3	2.06	0.64
2:CU:65:LYS:HB2	3:Dg:135:ARG:HH21	1.61	0.64
2:Ca:117:SER:HB3	3:DL:192:THR:HG22	1.80	0.64
2:Ce:65:LYS:HB2	3:DC:135:ARG:HH21	1.61	0.64
2:Cg:32:THR:HG23	2:Cg:172:HIS:CE1	2.33	0.64
2:Ch:117:SER:HB3	3:DN:192:THR:HG22	1.80	0.64
2:Ci:117:SER:HB3	3:Dj:192:THR:HG22	1.80	0.64
2:Ci:120:HIS:HA	2:Ci:203:THR:O	1.98	0.64
2:Ck:63:THR:H	3:Da:139:MET:HG3	1.63	0.64
2:Ck:120:HIS:HA	2:Ck:203:THR:O	1.98	0.64
2:Co:117:SER:HB3	3:DR:192:THR:HG22	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cp:209:VAL:H	2:Cp:210:PRO:CD	2.07	0.64
2:Cr:32:THR:HG23	2:Cr:172:HIS:CE1	2.33	0.64
2:Cr:135:THR:HB	2:Cr:139:ALA:HA	1.78	0.64
2:Ct:65:LYS:HB2	3:DH:135:ARG:HH21	1.61	0.64
2:Cw:117:SER:HB3	3:DS:192:THR:HG22	1.80	0.64
3:D0:53:PHE:CE2	3:D0:205:LEU:HB3	2.31	0.64
3:D1:119:LYS:HA	3:D1:147:ASP:HA	1.79	0.64
3:D3:132:PRO:HG2	3:D3:184:GLN:HE22	1.62	0.64
3:DA:132:PRO:HG2	3:DA:184:GLN:HE22	1.62	0.64
3:DE:115:ALA:HB1	3:DE:194:THR:OG1	1.97	0.64
3:DH:101:ARG:NH1	3:DH:165:ASP:HB3	2.13	0.64
3:DT:119:LYS:HA	3:DT:147:ASP:HA	1.79	0.64
3:DU:101:ARG:NH1	3:DU:165:ASP:HB3	2.13	0.64
3:DU:132:PRO:HG2	3:DU:184:GLN:HE22	1.62	0.64
3:DW:132:PRO:HG2	3:DW:184:GLN:HE22	1.62	0.64
3:De:53:PHE:CE2	3:De:205:LEU:HB3	2.31	0.64
3:Df:121:LEU:HD23	3:Df:121:LEU:C	2.22	0.64
3:Dh:42:ASN:HD22	3:Dh:44:ILE:H	1.46	0.64
3:Dh:101:ARG:NH1	3:Dh:165:ASP:HB3	2.13	0.64
3:Dk:119:LYS:HA	3:Dk:147:ASP:HA	1.79	0.64
3:Dn:132:PRO:HG2	3:Dn:184:GLN:HE22	1.62	0.64
1:A6:121:LEU:HD11	1:A7:206:GLY:N	2.11	0.64
1:A8:87:GLN:O	1:A8:88:PHE:HB3	1.98	0.64
1:AA:242:ASN:HD22	1:AE:110:GLY:N	1.95	0.64
1:AE:104:VAL:HG22	1:AE:197:LEU:HD23	1.80	0.64
1:AH:87:GLN:O	1:AH:88:PHE:HB3	1.98	0.64
1:AJ:59:PRO:O	1:AJ:72:LEU:HD13	1.97	0.64
1:AL:110:GLY:N	1:AM:242:ASN:HD22	1.95	0.64
1:AP:104:VAL:HG22	1:AP:197:LEU:HD23	1.80	0.64
1:AS:104:VAL:HG22	1:AS:197:LEU:HD23	1.80	0.64
1:AT:104:VAL:HG22	1:AT:197:LEU:HD23	1.80	0.64
1:AW:121:LEU:HD21	1:AX:206:GLY:HA3	1.78	0.64
1:AX:209:LEU:HD13	1:AX:210:ARG:H	1.61	0.64
1:Ac:104:VAL:HG22	1:Ac:197:LEU:HD23	1.80	0.64
1:Ah:143:VAL:H	3:Dk:14:PHE:HB3	1.62	0.64
1:Ah:242:ASN:HD22	1:Al:110:GLY:N	1.95	0.64
1:Aj:110:GLY:N	1:Ak:242:ASN:HD22	1.95	0.64
1:Ak:78:PHE:O	1:Ak:167:VAL:HB	1.96	0.64
1:Am:104:VAL:HG22	1:Am:197:LEU:HD23	1.80	0.64
1:An:104:VAL:HG22	1:An:197:LEU:HD23	1.80	0.64
1:An:187:LEU:CD2	1:An:188:PRO:HD2	2.25	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:121:LEU:HD21	1:BH:206:GLY:HA3	1.78	0.64
2:C0:32:THR:HG23	2:C0:172:HIS:CE1	2.33	0.64
2:C0:117:SER:HB3	3:DQ:192:THR:HG22	1.80	0.64
2:C1:63:THR:H	3:DO:139:MET:HG3	1.63	0.64
2:CG:32:THR:HG23	2:CG:172:HIS:CE1	2.33	0.64
2:CI:117:SER:HB3	3:DX:192:THR:HG22	1.80	0.64
2:CM:120:HIS:HA	2:CM:203:THR:O	1.98	0.64
2:CN:32:THR:HG23	2:CN:172:HIS:CE1	2.33	0.64
2:CR:32:THR:HG23	2:CR:172:HIS:CE1	2.33	0.64
2:CU:63:THR:H	3:Dg:139:MET:HG3	1.63	0.64
2:Cc:32:THR:HG23	2:Cc:172:HIS:CE1	2.33	0.64
2:Cc:120:HIS:HA	2:Cc:203:THR:O	1.98	0.64
2:Co:32:THR:HG23	2:Co:172:HIS:CE1	2.33	0.64
2:Cr:117:SER:HB3	3:DI:192:THR:HG22	1.80	0.64
2:Cu:120:HIS:HA	2:Cu:203:THR:O	1.98	0.64
3:D3:115:ALA:HB1	3:D3:194:THR:OG1	1.98	0.64
3:D9:42:ASN:HD22	3:D9:44:ILE:H	1.46	0.64
3:DC:115:ALA:HB1	3:DC:194:THR:OG1	1.98	0.64
3:DD:42:ASN:HD22	3:DD:44:ILE:H	1.46	0.64
3:DE:121:LEU:HD23	3:DE:121:LEU:C	2.22	0.64
3:DF:42:ASN:HD22	3:DF:44:ILE:H	1.46	0.64
3:DG:42:ASN:HD22	3:DG:44:ILE:H	1.46	0.64
3:DG:121:LEU:HD23	3:DG:121:LEU:C	2.22	0.64
3:DP:83:ALA:O	3:DP:86:HIS:HB3	1.96	0.64
3:DR:101:ARG:NH1	3:DR:165:ASP:HB3	2.13	0.64
3:DS:42:ASN:HD22	3:DS:44:ILE:H	1.46	0.64
3:Db:115:ALA:HB1	3:Db:194:THR:OG1	1.98	0.64
3:De:115:ALA:HB1	3:De:194:THR:OG1	1.98	0.64
3:Di:53:PHE:CE2	3:Di:205:LEU:HB3	2.31	0.64
3:Dl:42:ASN:HD22	3:Dl:44:ILE:H	1.46	0.64
3:Dl:101:ARG:NH1	3:Dl:165:ASP:HB3	2.13	0.64
3:EB:119:LYS:HA	3:EB:147:ASP:HA	1.79	0.64
3:EC:101:ARG:NH1	3:EC:165:ASP:HB3	2.13	0.64
1:A7:87:GLN:O	1:A7:88:PHE:HB3	1.98	0.64
1:AD:110:GLY:N	1:AE:242:ASN:HD22	1.95	0.64
1:AJ:209:LEU:HD13	1:AJ:210:ARG:H	1.61	0.64
1:AR:104:VAL:HG22	1:AR:197:LEU:HD23	1.80	0.64
1:AV:87:GLN:O	1:AV:88:PHE:HB3	1.98	0.64
1:AW:110:GLY:N	1:AX:242:ASN:HD22	1.95	0.64
1:Ae:87:GLN:O	1:Ae:88:PHE:HB3	1.98	0.64
1:Ag:143:VAL:H	3:De:14:PHE:HB3	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:59:PRO:O	1:Ah:72:LEU:HD13	1.97	0.64
1:Aj:104:VAL:HG22	1:Aj:197:LEU:HD23	1.80	0.64
1:BB:143:VAL:H	3:Dr:14:PHE:HB3	1.62	0.64
1:BD:88:PHE:CE1	1:BD:205:GLY:CA	2.81	0.64
1:BE:87:GLN:O	1:BE:88:PHE:HB3	1.98	0.64
1:BE:121:LEU:HD21	1:BF:206:GLY:HA3	1.78	0.64
1:BH:110:GLY:N	1:BI:242:ASN:HD22	1.95	0.64
2:C0:63:THR:H	3:DQ:139:MET:HG3	1.63	0.64
2:C3:32:THR:HG23	2:C3:172:HIS:CE1	2.33	0.64
2:C5:120:HIS:HA	2:C5:203:THR:O	1.98	0.64
2:C6:63:THR:H	3:DE:139:MET:HG3	1.63	0.64
2:C6:117:SER:HB3	3:DE:192:THR:HG22	1.80	0.64
2:C7:117:SER:HB3	3:Dm:192:THR:HG22	1.80	0.64
2:CD:120:HIS:HA	2:CD:203:THR:O	1.98	0.64
2:CE:32:THR:HG23	2:CE:172:HIS:CE1	2.33	0.64
2:CE:65:LYS:HB2	3:DF:135:ARG:HH21	1.61	0.64
2:CH:65:LYS:HB2	3:Ds:135:ARG:HH21	1.61	0.64
2:CJ:63:THR:H	3:DA:139:MET:HG3	1.63	0.64
2:CJ:120:HIS:HA	2:CJ:203:THR:O	1.98	0.64
2:CK:117:SER:HB3	3:Db:192:THR:HG22	1.80	0.64
2:CR:117:SER:HB3	3:EE:192:THR:HG22	1.80	0.64
2:CS:63:THR:H	3:Dc:139:MET:HG3	1.63	0.64
2:CY:32:THR:HG23	2:CY:172:HIS:CE1	2.33	0.64
2:CZ:32:THR:HG23	2:CZ:172:HIS:CE1	2.33	0.64
2:Cb:117:SER:HB3	3:DT:192:THR:HG22	1.80	0.64
2:Cd:117:SER:HB3	3:D4:192:THR:HG22	1.80	0.64
2:Ce:63:THR:H	3:DC:139:MET:HG3	1.63	0.64
2:Cj:117:SER:HB3	3:DM:192:THR:HG22	1.80	0.64
2:Cn:209:VAL:H	2:Cn:210:PRO:CD	2.07	0.64
2:Cq:63:THR:H	3:DY:139:MET:HG3	1.63	0.64
2:Cs:32:THR:HG23	2:Cs:172:HIS:CE1	2.33	0.64
2:Ct:117:SER:HB3	3:DH:192:THR:HG22	1.80	0.64
3:D2:101:ARG:NH1	3:D2:165:ASP:HB3	2.13	0.64
3:D2:121:LEU:C	3:D2:121:LEU:HD23	2.22	0.64
3:D7:119:LYS:HA	3:D7:147:ASP:HA	1.79	0.64
3:DD:101:ARG:NH1	3:DD:165:ASP:HB3	2.13	0.64
3:DE:119:LYS:HA	3:DE:147:ASP:HA	1.79	0.64
3:DI:53:PHE:CE2	3:DI:205:LEU:HB3	2.31	0.64
3:DK:119:LYS:HA	3:DK:147:ASP:HA	1.79	0.64
3:DL:42:ASN:HD22	3:DL:44:ILE:H	1.46	0.64
3:DP:42:ASN:HD22	3:DP:44:ILE:H	1.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DY:42:ASN:HD22	3:DY:44:ILE:H	1.46	0.64
3:DY:101:ARG:NH1	3:DY:165:ASP:HB3	2.13	0.64
3:Da:53:PHE:CE2	3:Da:205:LEU:HB3	2.31	0.64
3:Dc:115:ALA:HB1	3:Dc:194:THR:OG1	1.98	0.64
3:Df:115:ALA:HB1	3:Df:194:THR:OG1	1.98	0.64
3:Dj:115:ALA:HB1	3:Dj:194:THR:OG1	1.98	0.64
3:Dm:101:ARG:NH1	3:Dm:165:ASP:HB3	2.13	0.64
3:Dn:101:ARG:NH1	3:Dn:165:ASP:HB3	2.13	0.64
3:Dq:119:LYS:HA	3:Dq:147:ASP:HA	1.79	0.64
3:ED:101:ARG:NH1	3:ED:165:ASP:HB3	2.13	0.64
3:EE:115:ALA:HB1	3:EE:194:THR:OG1	1.98	0.64
1:A3:164:TRP:HZ2	1:A3:187:LEU:HD21	1.58	0.63
1:AA:104:VAL:HG22	1:AA:197:LEU:HD23	1.80	0.63
1:AO:88:PHE:CE1	1:AO:205:GLY:CA	2.81	0.63
1:AP:121:LEU:HD21	1:AQ:206:GLY:HA3	1.78	0.63
1:AQ:104:VAL:HG22	1:AQ:197:LEU:HD23	1.80	0.63
1:AQ:187:LEU:CD2	1:AQ:188:PRO:HD2	2.25	0.63
1:AY:104:VAL:HG22	1:AY:197:LEU:HD23	1.80	0.63
1:Aa:110:GLY:N	1:Ab:242:ASN:HD22	1.95	0.63
1:Ak:104:VAL:HG22	1:Ak:197:LEU:HD23	1.80	0.63
1:BF:88:PHE:CE1	1:BF:205:GLY:CA	2.81	0.63
2:C0:120:HIS:HA	2:C0:203:THR:O	1.98	0.63
2:C2:63:THR:H	3:Dh:139:MET:HG3	1.63	0.63
2:C5:209:VAL:H	2:C5:210:PRO:CD	2.07	0.63
2:CA:32:THR:HG23	2:CA:172:HIS:CE1	2.33	0.63
2:CA:63:THR:H	3:DW:139:MET:HG3	1.63	0.63
2:CD:63:THR:H	3:D7:139:MET:HG3	1.63	0.63
2:CE:63:THR:H	3:DF:139:MET:HG3	1.63	0.63
2:CF:65:LYS:HB2	3:D6:135:ARG:HH21	1.61	0.63
2:CH:63:THR:H	3:Ds:139:MET:HG3	1.63	0.63
2:CJ:32:THR:HG23	2:CJ:172:HIS:CE1	2.33	0.63
2:CL:63:THR:H	3:Dk:139:MET:HG3	1.63	0.63
2:CM:63:THR:H	3:Di:139:MET:HG3	1.63	0.63
2:CU:117:SER:HB3	3:Dg:192:THR:HG22	1.80	0.63
2:CV:120:HIS:HA	2:CV:203:THR:O	1.98	0.63
2:Cb:63:THR:H	3:DT:139:MET:HG3	1.63	0.63
2:Cf:117:SER:HB3	3:DV:192:THR:HG22	1.80	0.63
2:Cj:63:THR:H	3:DM:139:MET:HG3	1.63	0.63
2:Cm:209:VAL:H	2:Cm:210:PRO:CD	2.07	0.63
2:Cu:117:SER:HB3	3:D5:192:THR:HG22	1.80	0.63
3:D4:101:ARG:NH1	3:D4:165:ASP:HB3	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D5:110:PHE:CB	3:D5:148:VAL:HG11	2.29	0.63
3:D5:119:LYS:HA	3:D5:147:ASP:HA	1.79	0.63
3:D8:101:ARG:NH1	3:D8:165:ASP:HB3	2.13	0.63
3:DB:42:ASN:HD22	3:DB:44:ILE:H	1.46	0.63
3:DN:101:ARG:NH1	3:DN:165:ASP:HB3	2.13	0.63
3:DP:53:PHE:CE2	3:DP:205:LEU:HB3	2.31	0.63
3:DV:119:LYS:HA	3:DV:147:ASP:HA	1.79	0.63
3:Df:101:ARG:NH1	3:Df:165:ASP:HB3	2.13	0.63
3:Di:101:ARG:NH1	3:Di:165:ASP:HB3	2.13	0.63
3:Dj:42:ASN:HD22	3:Dj:44:ILE:H	1.46	0.63
3:Dk:132:PRO:HG2	3:Dk:184:GLN:HE22	1.62	0.63
3:Dl:115:ALA:HB1	3:Dl:194:THR:OG1	1.98	0.63
3:Dp:42:ASN:HD22	3:Dp:44:ILE:H	1.46	0.63
3:Dq:101:ARG:NH1	3:Dq:165:ASP:HB3	2.13	0.63
3:EA:101:ARG:NH1	3:EA:165:ASP:HB3	2.13	0.63
3:EA:132:PRO:HG2	3:EA:184:GLN:HE22	1.62	0.63
1:A1:87:GLN:O	1:A1:88:PHE:HB3	1.98	0.63
1:A1:88:PHE:CE1	1:A1:205:GLY:CA	2.81	0.63
1:A5:88:PHE:CE1	1:A5:205:GLY:CA	2.81	0.63
1:A6:143:VAL:H	3:D8:14:PHE:HB3	1.62	0.63
1:A8:110:GLY:N	1:A9:242:ASN:HD22	1.95	0.63
1:AD:87:GLN:O	1:AD:88:PHE:HB3	1.98	0.63
1:AG:110:GLY:N	1:AH:242:ASN:HD22	1.95	0.63
1:AH:88:PHE:CE1	1:AH:205:GLY:CA	2.81	0.63
1:AM:143:VAL:H	3:DN:14:PHE:HB3	1.62	0.63
1:AU:87:GLN:O	1:AU:88:PHE:HB3	1.98	0.63
1:Ao:143:VAL:H	3:DT:14:PHE:HB3	1.62	0.63
1:BE:187:LEU:CD2	1:BE:188:PRO:HD2	2.25	0.63
2:C3:63:THR:H	3:DU:139:MET:HG3	1.63	0.63
2:C3:208:THR:O	2:C3:209:VAL:HG23	1.99	0.63
2:C9:65:LYS:HB2	3:Dl:135:ARG:HH21	1.61	0.63
2:CV:117:SER:HB3	3:DB:192:THR:HG22	1.80	0.63
2:CW:58:LEU:HD22	2:CW:93:SER:HB3	1.78	0.63
2:CX:58:LEU:HD22	2:CX:93:SER:HB3	1.78	0.63
2:Ch:32:THR:HG23	2:Ch:172:HIS:CE1	2.33	0.63
2:Ck:32:THR:HG23	2:Ck:172:HIS:CE1	2.33	0.63
2:Cp:32:THR:HG23	2:Cp:172:HIS:CE1	2.33	0.63
2:Cu:32:THR:HG23	2:Cu:172:HIS:CE1	2.33	0.63
2:Cv:120:HIS:HA	2:Cv:203:THR:O	1.98	0.63
2:Cx:120:HIS:HA	2:Cx:203:THR:O	1.98	0.63
3:D1:110:PHE:CB	3:D1:148:VAL:HG11	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:115:ALA:HB1	3:D9:194:THR:OG1	1.97	0.63
3:DD:119:LYS:HA	3:DD:147:ASP:HA	1.79	0.63
3:DF:110:PHE:CB	3:DF:148:VAL:HG11	2.29	0.63
3:DH:110:PHE:CB	3:DH:148:VAL:HG11	2.29	0.63
3:DK:101:ARG:NH1	3:DK:165:ASP:HB3	2.13	0.63
3:DK:110:PHE:CB	3:DK:148:VAL:HG11	2.29	0.63
3:DT:110:PHE:CB	3:DT:148:VAL:HG11	2.29	0.63
3:Dh:115:ALA:HB1	3:Dh:194:THR:OG1	1.98	0.63
3:Dk:53:PHE:CE2	3:Dk:205:LEU:HB3	2.31	0.63
3:Do:110:PHE:CB	3:Do:148:VAL:HG11	2.29	0.63
3:Dq:42:ASN:HD22	3:Dq:44:ILE:H	1.46	0.63
3:Dr:110:PHE:CB	3:Dr:148:VAL:HG11	2.29	0.63
3:EE:101:ARG:NH1	3:EE:165:ASP:HB3	2.13	0.63
1:A3:242:ASN:HD22	1:A7:110:GLY:N	1.95	0.63
1:AK:87:GLN:O	1:AK:88:PHE:HB3	1.98	0.63
1:AT:110:GLY:N	1:AU:242:ASN:HD22	1.95	0.63
1:AZ:87:GLN:O	1:AZ:88:PHE:HB3	1.98	0.63
1:Ab:87:GLN:O	1:Ab:88:PHE:HB3	1.98	0.63
1:Am:82:LEU:HD11	1:Am:211:TYR:CD2	2.26	0.63
1:BE:88:PHE:CE1	1:BE:205:GLY:CA	2.81	0.63
1:BI:104:VAL:HG22	1:BI:197:LEU:HD23	1.80	0.63
2:CB:208:THR:O	2:CB:209:VAL:HG23	1.99	0.63
2:CL:32:THR:HG23	2:CL:172:HIS:CE1	2.33	0.63
2:CX:120:HIS:HA	2:CX:203:THR:O	1.98	0.63
2:Ca:32:THR:HG23	2:Ca:172:HIS:CE1	2.33	0.63
2:Cb:120:HIS:HA	2:Cb:203:THR:O	1.98	0.63
2:Cc:120:HIS:HA	2:Cc:203:THR:O	1.98	0.63
2:Ch:63:THR:H	3:DN:139:MET:HG3	1.63	0.63
2:Cm:63:THR:H	3:DD:139:MET:HG3	1.63	0.63
2:Cm:117:SER:HB3	3:DD:192:THR:HG22	1.80	0.63
2:Cq:117:SER:HB3	3:DY:192:THR:HG22	1.80	0.63
2:Cs:120:HIS:HA	2:Cs:203:THR:O	1.98	0.63
2:Cw:32:THR:HG23	2:Cw:172:HIS:CE1	2.33	0.63
3:D6:132:PRO:HG2	3:D6:184:GLN:HE22	1.62	0.63
3:D8:110:PHE:CB	3:D8:148:VAL:HG11	2.29	0.63
3:D9:101:ARG:NH1	3:D9:165:ASP:HB3	2.13	0.63
3:DC:42:ASN:HD22	3:DC:44:ILE:H	1.46	0.63
3:DJ:115:ALA:HB1	3:DJ:194:THR:OG1	1.98	0.63
3:DL:101:ARG:NH1	3:DL:165:ASP:HB3	2.13	0.63
3:DQ:101:ARG:NH1	3:DQ:165:ASP:HB3	2.13	0.63
3:DR:115:ALA:HB1	3:DR:194:THR:OG1	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:110:PHE:CB	3:DV:148:VAL:HG11	2.29	0.63
3:DY:110:PHE:CB	3:DY:148:VAL:HG11	2.29	0.63
3:Da:110:PHE:CB	3:Da:148:VAL:HG11	2.29	0.63
3:Do:53:PHE:CE2	3:Do:205:LEU:HB3	2.31	0.63
3:Dp:132:PRO:HG2	3:Dp:184:GLN:HE22	1.62	0.63
3:Dr:101:ARG:NH1	3:Dr:165:ASP:HB3	2.13	0.63
3:ED:42:ASN:HD22	3:ED:44:ILE:H	1.46	0.63
3:ED:53:PHE:CE2	3:ED:205:LEU:HB3	2.31	0.63
1:AF:104:VAL:HG22	1:AF:197:LEU:HD23	1.80	0.63
1:AG:87:GLN:O	1:AG:88:PHE:HB3	1.98	0.63
1:AJ:230:ARG:NH2	3:DJ:83:ALA:HB1	2.14	0.63
1:AK:82:LEU:HD11	1:AK:211:TYR:CD2	2.26	0.63
1:AN:88:PHE:CE1	1:AN:205:GLY:CA	2.81	0.63
1:AR:88:PHE:CE1	1:AR:205:GLY:CA	2.81	0.63
1:AS:88:PHE:CE1	1:AS:205:GLY:CA	2.81	0.63
1:AY:143:VAL:H	3:D0:14:PHE:HB3	1.62	0.63
1:AZ:88:PHE:CE1	1:AZ:205:GLY:CA	2.81	0.63
1:AZ:104:VAL:HG22	1:AZ:197:LEU:HD23	1.80	0.63
1:Ac:207:CYS:H	1:Ag:121:LEU:CD2	2.12	0.63
1:Ae:143:VAL:H	3:Dh:14:PHE:HB3	1.62	0.63
1:Ag:230:ARG:NH2	3:Di:83:ALA:HB1	2.14	0.63
1:Aj:88:PHE:CE1	1:Aj:205:GLY:CA	2.81	0.63
1:Am:110:GLY:N	1:BA:242:ASN:HD22	1.95	0.63
1:BA:230:ARG:NH2	3:Dp:83:ALA:HB1	2.14	0.63
1:BB:87:GLN:O	1:BB:88:PHE:HB3	1.98	0.63
1:BC:143:VAL:H	3:Ds:14:PHE:HB3	1.62	0.63
1:BF:110:GLY:N	1:BG:242:ASN:HD22	1.95	0.63
2:C4:32:THR:HG23	2:C4:172:HIS:CE1	2.33	0.63
2:C6:58:LEU:HD22	2:C6:93:SER:HB3	1.78	0.63
2:C7:63:THR:H	3:Dm:139:MET:HG3	1.63	0.63
2:C9:32:THR:HG23	2:C9:172:HIS:CE1	2.33	0.63
2:CB:63:THR:H	3:Df:139:MET:HG3	1.63	0.63
2:CC:63:THR:H	3:Dn:139:MET:HG3	1.64	0.63
2:CF:208:THR:O	2:CF:209:VAL:HG23	1.99	0.63
2:CL:117:SER:HB3	3:Dk:192:THR:HG22	1.80	0.63
2:CM:32:THR:HG23	2:CM:172:HIS:CE1	2.33	0.63
2:CS:208:THR:O	2:CS:209:VAL:HG23	1.99	0.63
2:CX:32:THR:HG23	2:CX:172:HIS:CE1	2.33	0.63
2:CY:65:LYS:HB2	3:DZ:135:ARG:HH21	1.61	0.63
2:Cc:63:THR:H	3:ED:139:MET:HG3	1.64	0.63
2:Cc:208:THR:O	2:Cc:209:VAL:HG23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cm:208:THR:O	2:Cm:209:VAL:HG23	1.99	0.63
2:Co:63:THR:H	3:DR:139:MET:HG3	1.63	0.63
2:Ct:32:THR:HG23	2:Ct:172:HIS:CE1	2.33	0.63
2:Cx:32:THR:HG23	2:Cx:172:HIS:CE1	2.33	0.63
2:Cx:63:THR:H	3:Do:139:MET:HG3	1.63	0.63
3:D1:101:ARG:NH1	3:D1:165:ASP:HB3	2.13	0.63
3:D5:132:PRO:HG2	3:D5:184:GLN:HE22	1.62	0.63
3:DA:66:ASN:HB3	3:DA:191:LEU:O	1.99	0.63
3:DC:110:PHE:CB	3:DC:148:VAL:HG11	2.29	0.63
3:DI:101:ARG:NH1	3:DI:165:ASP:HB3	2.13	0.63
3:DJ:110:PHE:CB	3:DJ:148:VAL:HG11	2.29	0.63
3:DQ:110:PHE:CB	3:DQ:148:VAL:HG11	2.29	0.63
3:DU:42:ASN:HD22	3:DU:44:ILE:H	1.46	0.63
3:DY:115:ALA:HB1	3:DY:194:THR:OG1	1.98	0.63
3:Df:110:PHE:CB	3:Df:148:VAL:HG11	2.29	0.63
3:Dh:110:PHE:CB	3:Dh:148:VAL:HG11	2.29	0.63
3:Di:110:PHE:CB	3:Di:148:VAL:HG11	2.29	0.63
3:Dj:101:ARG:NH1	3:Dj:165:ASP:HB3	2.13	0.63
3:Dj:132:PRO:HG2	3:Dj:184:GLN:HE22	1.62	0.63
3:Dk:66:ASN:HB3	3:Dk:191:LEU:O	1.99	0.63
3:Dp:115:ALA:HB1	3:Dp:194:THR:OG1	1.98	0.63
3:Ds:42:ASN:HD22	3:Ds:44:ILE:H	1.46	0.63
3:EA:66:ASN:HB3	3:EA:191:LEU:O	1.99	0.63
3:EA:115:ALA:HB1	3:EA:194:THR:OG1	1.98	0.63
3:EA:119:LYS:HA	3:EA:147:ASP:HA	1.79	0.63
3:EB:101:ARG:NH1	3:EB:165:ASP:HB3	2.13	0.63
3:EB:110:PHE:CB	3:EB:148:VAL:HG11	2.29	0.63
3:ED:110:PHE:CB	3:ED:148:VAL:HG11	2.29	0.63
1:A1:110:GLY:N	1:A2:242:ASN:HD22	1.95	0.63
1:A2:110:GLY:N	1:AY:242:ASN:HD22	1.95	0.63
1:A3:187:LEU:CD2	1:A3:188:PRO:HD2	2.25	0.63
1:A4:87:GLN:O	1:A4:88:PHE:HB3	1.98	0.63
1:A6:104:VAL:HG22	1:A6:197:LEU:HD23	1.80	0.63
1:AD:82:LEU:HD11	1:AD:211:TYR:CD2	2.26	0.63
1:AD:104:VAL:HG22	1:AD:197:LEU:HD23	1.80	0.63
1:AL:88:PHE:CE1	1:AL:205:GLY:CA	2.81	0.63
1:AL:143:VAL:H	3:DM:14:PHE:HB3	1.62	0.63
1:AL:230:ARG:NH2	3:DL:83:ALA:HB1	2.14	0.63
1:AN:187:LEU:CD2	1:AN:188:PRO:HD2	2.25	0.63
1:AP:230:ARG:NH2	3:DP:83:ALA:HB1	2.14	0.63
1:AY:88:PHE:CE1	1:AY:205:GLY:CA	2.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aa:87:GLN:O	1:Aa:88:PHE:HB3	1.98	0.63
1:Aa:121:LEU:CD2	1:Ab:207:CYS:H	2.11	0.63
1:Af:121:LEU:HD21	1:Ag:206:GLY:HA3	1.78	0.63
1:Af:121:LEU:CD2	1:Ag:207:CYS:H	2.12	0.63
1:Ag:87:GLN:O	1:Ag:88:PHE:HB3	1.98	0.63
1:Ag:164:TRP:HZ2	1:Ag:187:LEU:HD21	1.58	0.63
1:Ah:230:ARG:NH2	3:Dj:83:ALA:HB1	2.14	0.63
1:Ai:87:GLN:O	1:Ai:88:PHE:HB3	1.98	0.63
1:An:87:GLN:O	1:An:88:PHE:HB3	1.98	0.63
1:BA:143:VAL:H	3:Dq:14:PHE:HB3	1.62	0.63
1:BG:230:ARG:NH2	3:EC:83:ALA:HB1	2.14	0.63
2:C0:208:THR:O	2:C0:209:VAL:HG23	1.99	0.63
2:C2:32:THR:HG23	2:C2:172:HIS:CE1	2.33	0.63
2:C4:120:HIS:HA	2:C4:203:THR:O	1.98	0.63
2:C7:208:THR:O	2:C7:209:VAL:HG23	1.99	0.63
2:CD:32:THR:HG23	2:CD:172:HIS:CE1	2.33	0.63
2:CJ:208:THR:O	2:CJ:209:VAL:HG23	1.99	0.63
2:CN:117:SER:HB3	3:D2:192:THR:HG22	1.80	0.63
2:CN:208:THR:O	2:CN:209:VAL:HG23	1.99	0.63
2:CS:32:THR:HG23	2:CS:172:HIS:CE1	2.33	0.63
2:CT:32:THR:HG23	2:CT:172:HIS:CE1	2.33	0.63
2:CX:63:THR:H	3:Dr:139:MET:HG3	1.63	0.63
2:CY:208:THR:O	2:CY:209:VAL:HG23	1.99	0.63
2:Cc:117:SER:HB3	3:ED:192:THR:HG22	1.80	0.63
2:Cd:208:THR:O	2:Cd:209:VAL:HG23	1.99	0.63
2:Cf:120:HIS:HA	2:Cf:203:THR:O	1.98	0.63
2:Cm:120:HIS:HA	2:Cm:203:THR:O	1.98	0.63
2:Cr:208:THR:O	2:Cr:209:VAL:HG23	1.99	0.63
3:D9:110:PHE:CB	3:D9:148:VAL:HG11	2.29	0.63
3:D9:119:LYS:HA	3:D9:147:ASP:HA	1.79	0.63
3:DA:110:PHE:CB	3:DA:148:VAL:HG11	2.29	0.63
3:DB:110:PHE:CB	3:DB:148:VAL:HG11	2.29	0.63
3:DJ:66:ASN:HB3	3:DJ:191:LEU:O	1.99	0.63
3:DJ:101:ARG:NH1	3:DJ:165:ASP:HB3	2.13	0.63
3:DL:110:PHE:CB	3:DL:148:VAL:HG11	2.29	0.63
3:DN:66:ASN:HB3	3:DN:191:LEU:O	1.99	0.63
3:DO:66:ASN:HB3	3:DO:191:LEU:O	1.99	0.63
3:DX:66:ASN:HB3	3:DX:191:LEU:O	1.99	0.63
3:DX:115:ALA:HB1	3:DX:194:THR:OG1	1.98	0.63
3:DY:66:ASN:HB3	3:DY:191:LEU:O	1.99	0.63
3:DZ:66:ASN:HB3	3:DZ:191:LEU:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Db:42:ASN:HD22	3:Db:44:ILE:H	1.46	0.63
3:Dc:110:PHE:CB	3:Dc:148:VAL:HG11	2.28	0.63
3:Dq:132:PRO:HG2	3:Dq:184:GLN:HE22	1.62	0.63
1:A0:230:ARG:NH2	3:D1:83:ALA:HB1	2.14	0.63
1:A1:143:VAL:H	3:D3:14:PHE:HB3	1.62	0.63
1:A5:230:ARG:NH2	3:D6:83:ALA:HB1	2.14	0.63
1:AB:164:TRP:HZ2	1:AB:187:LEU:HD21	1.58	0.63
1:AC:87:GLN:O	1:AC:88:PHE:HB3	1.98	0.63
1:AD:143:VAL:H	3:DE:14:PHE:HB3	1.62	0.63
1:AG:143:VAL:H	3:DH:14:PHE:HB3	1.62	0.63
1:AI:87:GLN:O	1:AI:88:PHE:HB3	1.98	0.63
1:AJ:143:VAL:H	3:DF:14:PHE:HB3	1.62	0.63
1:AN:104:VAL:HG22	1:AN:197:LEU:HD23	1.80	0.63
1:AR:230:ARG:NH2	3:DR:83:ALA:HB1	2.14	0.63
1:AT:87:GLN:O	1:AT:88:PHE:HB3	1.98	0.63
1:AW:104:VAL:HG22	1:AW:197:LEU:HD23	1.80	0.63
1:AX:88:PHE:CE1	1:AX:205:GLY:CA	2.81	0.63
1:Ac:187:LEU:CD2	1:Ac:188:PRO:HD2	2.25	0.63
1:Ad:87:GLN:O	1:Ad:88:PHE:HB3	1.98	0.63
1:Af:88:PHE:CE1	1:Af:205:GLY:CA	2.81	0.63
1:Ai:187:LEU:CD2	1:Ai:188:PRO:HD2	2.25	0.63
1:Ai:230:ARG:NH2	3:Dk:83:ALA:HB1	2.14	0.63
1:Ak:230:ARG:NH2	3:Dm:83:ALA:HB1	2.14	0.63
1:Al:88:PHE:CE1	1:Al:205:GLY:CA	2.81	0.63
1:An:230:ARG:NH2	3:Db:83:ALA:HB1	2.14	0.63
1:BH:121:LEU:CD2	1:BI:207:CYS:H	2.12	0.63
1:BH:230:ARG:NH2	3:ED:83:ALA:HB1	2.14	0.63
2:C4:117:SER:HB3	3:EC:192:THR:HG22	1.80	0.63
2:CC:117:SER:HB3	3:Dn:192:THR:HG22	1.80	0.63
2:CH:120:HIS:HA	2:CH:203:THR:O	1.98	0.63
2:CN:110:VAL:HG11	2:CN:213:MET:HE3	1.81	0.63
2:CO:208:THR:O	2:CO:209:VAL:HG23	1.99	0.63
2:CQ:208:THR:O	2:CQ:209:VAL:HG23	1.99	0.63
2:CU:32:THR:HG23	2:CU:172:HIS:CE1	2.33	0.63
2:CX:208:THR:O	2:CX:209:VAL:HG23	1.99	0.63
2:CZ:63:THR:H	3:Dq:139:MET:HG3	1.63	0.63
2:Ce:32:THR:HG23	2:Ce:172:HIS:CE1	2.33	0.63
2:Ci:32:THR:HG23	2:Ci:172:HIS:CE1	2.33	0.63
2:Cj:110:VAL:HG11	2:Cj:213:MET:HE3	1.81	0.63
2:Cl:32:THR:HG23	2:Cl:172:HIS:CE1	2.33	0.63
2:Ct:120:HIS:HA	2:Ct:203:THR:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cv:32:THR:HG23	2:Cv:172:HIS:CE1	2.33	0.63
3:D8:115:ALA:HB1	3:D8:194:THR:OG1	1.98	0.63
3:DA:53:PHE:CE2	3:DA:205:LEU:HB3	2.31	0.63
3:DD:110:PHE:CB	3:DD:148:VAL:HG11	2.29	0.63
3:DI:66:ASN:HB3	3:DI:191:LEU:O	1.99	0.63
3:DJ:132:PRO:HG2	3:DJ:184:GLN:HE22	1.62	0.63
3:DL:66:ASN:HB3	3:DL:191:LEU:O	1.99	0.63
3:DO:110:PHE:CB	3:DO:148:VAL:HG11	2.29	0.63
3:DR:110:PHE:CB	3:DR:148:VAL:HG11	2.29	0.63
3:DT:53:PHE:CE2	3:DT:205:LEU:HB3	2.31	0.63
3:Db:132:PRO:HG2	3:Db:184:GLN:HE22	1.62	0.63
3:Dh:66:ASN:HB3	3:Dh:191:LEU:O	1.99	0.63
3:Dh:119:LYS:HA	3:Dh:147:ASP:HA	1.79	0.63
3:Dm:66:ASN:HB3	3:Dm:191:LEU:O	1.99	0.63
3:Dm:110:PHE:CB	3:Dm:148:VAL:HG11	2.29	0.63
3:Dn:110:PHE:CB	3:Dn:148:VAL:HG11	2.29	0.63
3:Dq:115:ALA:HB1	3:Dq:194:THR:OG1	1.98	0.63
3:EB:42:ASN:HD22	3:EB:44:ILE:H	1.46	0.63
3:EB:53:PHE:CE2	3:EB:205:LEU:HB3	2.31	0.63
1:A3:110:GLY:N	1:A4:242:ASN:HD22	1.95	0.63
1:A4:104:VAL:HG22	1:A4:197:LEU:HD23	1.80	0.63
1:A7:230:ARG:NH2	3:D8:83:ALA:HB1	2.14	0.63
1:A9:230:ARG:NH2	3:Da:83:ALA:HB1	2.14	0.63
1:AN:87:GLN:O	1:AN:88:PHE:HB3	1.98	0.63
1:AP:187:LEU:CD2	1:AP:188:PRO:HD2	2.25	0.63
1:Ad:143:VAL:H	3:Dg:14:PHE:HB3	1.62	0.63
1:BB:121:LEU:CD2	1:BC:207:CYS:H	2.12	0.63
1:BC:87:GLN:O	1:BC:88:PHE:HB3	1.98	0.63
1:BC:104:VAL:HG22	1:BC:197:LEU:HD23	1.80	0.63
1:BF:143:VAL:H	3:EC:14:PHE:HB3	1.62	0.63
2:C1:117:SER:HB3	3:DO:192:THR:HG22	1.80	0.63
2:C5:208:THR:O	2:C5:209:VAL:HG23	1.99	0.63
2:C6:32:THR:HG23	2:C6:172:HIS:CE1	2.33	0.63
2:CD:117:SER:HB3	3:D7:192:THR:HG22	1.80	0.63
2:CI:32:THR:HG23	2:CI:172:HIS:CE1	2.33	0.63
2:CK:32:THR:HG23	2:CK:172:HIS:CE1	2.33	0.63
2:Ca:120:HIS:HA	2:Ca:203:THR:O	1.98	0.63
2:Cb:208:THR:O	2:Cb:209:VAL:HG23	1.99	0.63
2:Cd:32:THR:HG23	2:Cd:172:HIS:CE1	2.33	0.63
2:Cd:63:THR:H	3:D4:139:MET:HG3	1.63	0.63
2:Ch:120:HIS:HA	2:Ch:203:THR:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cj:32:THR:HG23	2:Cj:172:HIS:CE1	2.33	0.63
2:Cl:63:THR:H	3:D8:139:MET:HG3	1.63	0.63
2:Cl:208:THR:O	2:Cl:209:VAL:HG23	1.99	0.63
2:Cn:208:THR:O	2:Cn:209:VAL:HG23	1.99	0.63
2:Cs:63:THR:H	3:EA:139:MET:HG3	1.63	0.63
2:Cu:110:VAL:HG11	2:Cu:213:MET:HE3	1.81	0.63
3:D6:66:ASN:HB3	3:D6:191:LEU:O	1.99	0.63
3:DF:101:ARG:NH1	3:DF:165:ASP:HB3	2.13	0.63
3:DI:42:ASN:HD22	3:DI:44:ILE:H	1.46	0.63
3:DQ:115:ALA:HB1	3:DQ:194:THR:OG1	1.98	0.63
3:DR:66:ASN:HB3	3:DR:191:LEU:O	1.99	0.63
3:DS:101:ARG:NH1	3:DS:165:ASP:HB3	2.13	0.63
3:DU:66:ASN:HB3	3:DU:191:LEU:O	1.99	0.63
3:DV:42:ASN:HD22	3:DV:44:ILE:H	1.46	0.63
3:DV:101:ARG:NH1	3:DV:165:ASP:HB3	2.13	0.63
3:DZ:110:PHE:CB	3:DZ:148:VAL:HG11	2.29	0.63
3:Dd:110:PHE:CB	3:Dd:148:VAL:HG11	2.29	0.63
3:Dr:66:ASN:HB3	3:Dr:191:LEU:O	1.99	0.63
3:EC:110:PHE:CB	3:EC:148:VAL:HG11	2.29	0.63
1:A0:104:VAL:HG22	1:A0:197:LEU:HD23	1.80	0.63
1:A1:230:ARG:NH2	3:D2:83:ALA:HB1	2.14	0.63
1:AC:230:ARG:NH2	3:DC:83:ALA:HB1	2.14	0.63
1:AG:82:LEU:HD11	1:AG:211:TYR:CD2	2.26	0.63
1:AI:230:ARG:NH2	3:DI:83:ALA:HB1	2.14	0.63
1:AL:104:VAL:HG22	1:AL:197:LEU:HD23	1.80	0.63
1:AM:187:LEU:CD2	1:AM:188:PRO:HD2	2.25	0.63
1:AP:88:PHE:CE1	1:AP:205:GLY:CA	2.81	0.63
1:AU:121:LEU:CD2	1:AV:207:CYS:H	2.12	0.63
1:Ad:121:LEU:CD2	1:Ae:207:CYS:H	2.12	0.63
1:Ad:230:ARG:NH2	3:Df:83:ALA:HB1	2.14	0.63
1:Ai:104:VAL:HG22	1:Ai:197:LEU:HD23	1.80	0.63
1:Ak:110:GLY:N	1:Al:242:ASN:HD22	1.95	0.63
1:Al:104:VAL:HG22	1:Al:197:LEU:HD23	1.80	0.63
1:Al:143:VAL:H	3:Dj:14:PHE:HB3	1.62	0.63
1:BA:104:VAL:HG22	1:BA:197:LEU:HD23	1.80	0.63
1:BD:143:VAL:H	3:Do:14:PHE:HB3	1.63	0.63
1:BG:88:PHE:CE1	1:BG:205:GLY:CA	2.81	0.63
1:BH:104:VAL:HG22	1:BH:197:LEU:HD23	1.80	0.63
2:C6:110:VAL:HG11	2:C6:213:MET:HE3	1.81	0.63
2:C6:209:VAL:H	2:C6:210:PRO:CD	2.07	0.63
2:C8:208:THR:O	2:C8:209:VAL:HG23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:117:SER:HB3	3:D1:192:THR:HG22	1.80	0.63
2:CE:208:THR:O	2:CE:209:VAL:HG23	1.99	0.63
2:CO:117:SER:HB3	3:DP:192:THR:HG22	1.80	0.63
2:CP:117:SER:HB3	3:D1:192:THR:HG22	1.80	0.63
2:CS:110:VAL:HG11	2:CS:213:MET:HE3	1.81	0.63
2:CW:32:THR:HG23	2:CW:172:HIS:CE1	2.33	0.63
2:Cb:32:THR:HG23	2:Cb:172:HIS:CE1	2.33	0.63
2:Cm:115:ASN:C	3:DD:119:LYS:HZ3	2.06	0.63
2:Cn:115:ASN:C	3:De:119:LYS:HZ3	2.06	0.63
2:Cs:208:THR:O	2:Cs:209:VAL:HG23	1.99	0.63
2:Ct:110:VAL:HG11	2:Ct:213:MET:HE3	1.81	0.63
2:Cu:63:THR:H	3:D5:139:MET:HG3	1.64	0.63
3:D0:115:ALA:HB1	3:D0:194:THR:OG1	1.97	0.63
3:D2:66:ASN:HB3	3:D2:191:LEU:O	1.99	0.63
3:D9:53:PHE:CE2	3:D9:205:LEU:HB3	2.31	0.63
3:DE:42:ASN:HD22	3:DE:44:ILE:H	1.46	0.63
3:DE:110:PHE:CB	3:DE:148:VAL:HG11	2.29	0.63
3:DF:66:ASN:HB3	3:DF:191:LEU:O	1.99	0.63
3:DM:115:ALA:HB1	3:DM:194:THR:OG1	1.98	0.63
3:DS:66:ASN:HB3	3:DS:191:LEU:O	1.99	0.63
3:DZ:132:PRO:HG2	3:DZ:184:GLN:HE22	1.62	0.63
3:Da:66:ASN:HB3	3:Da:191:LEU:O	1.99	0.63
3:Da:101:ARG:NH1	3:Da:165:ASP:HB3	2.13	0.63
3:Db:101:ARG:NH1	3:Db:165:ASP:HB3	2.13	0.63
3:Db:110:PHE:CB	3:Db:148:VAL:HG11	2.29	0.63
3:Df:66:ASN:HB3	3:Df:191:LEU:O	1.99	0.63
3:Dg:110:PHE:CB	3:Dg:148:VAL:HG11	2.29	0.63
3:Dj:66:ASN:HB3	3:Dj:191:LEU:O	1.99	0.63
3:Dk:101:ARG:NH1	3:Dk:165:ASP:HB3	2.13	0.63
3:Do:66:ASN:HB3	3:Do:191:LEU:O	1.99	0.63
3:Do:101:ARG:NH1	3:Do:165:ASP:HB3	2.13	0.63
3:Dp:101:ARG:NH1	3:Dp:165:ASP:HB3	2.13	0.63
3:EB:66:ASN:HB3	3:EB:191:LEU:O	1.99	0.63
1:AH:121:LEU:CD2	1:AI:207:CYS:H	2.12	0.63
1:AK:88:PHE:CE1	1:AK:205:GLY:CA	2.81	0.63
1:AL:87:GLN:O	1:AL:88:PHE:HB3	1.98	0.63
1:AL:187:LEU:CD2	1:AL:188:PRO:HD2	2.25	0.63
1:AM:121:LEU:CD2	1:AN:207:CYS:H	2.12	0.63
1:AP:207:CYS:H	1:AS:121:LEU:CD2	2.12	0.63
1:AQ:121:LEU:CD2	1:AR:207:CYS:H	2.12	0.63
1:AU:230:ARG:NH2	3:DV:83:ALA:HB1	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:87:GLN:O	1:AY:88:PHE:HB3	1.98	0.63
1:Ag:104:VAL:HG22	1:Ag:197:LEU:HD23	1.80	0.63
1:Ak:87:GLN:O	1:Ak:88:PHE:HB3	1.98	0.63
1:Ak:88:PHE:CE1	1:Ak:205:GLY:CA	2.81	0.63
1:Al:230:ARG:NH2	3:Dn:83:ALA:HB1	2.14	0.63
1:BB:230:ARG:NH2	3:Dq:83:ALA:HB1	2.14	0.63
2:C1:208:THR:O	2:C1:209:VAL:HG23	1.99	0.63
2:C6:120:HIS:HA	2:C6:203:THR:O	1.98	0.63
2:C9:63:THR:H	3:Dl:139:MET:HG3	1.63	0.63
2:CC:120:HIS:HA	2:CC:203:THR:O	1.98	0.63
2:CL:120:HIS:HA	2:CL:203:THR:O	1.98	0.63
2:CM:208:THR:O	2:CM:209:VAL:HG23	1.99	0.63
2:CO:32:THR:HG23	2:CO:172:HIS:CE1	2.33	0.63
2:CP:208:THR:O	2:CP:209:VAL:HG23	1.99	0.63
2:CQ:32:THR:HG23	2:CQ:172:HIS:CE1	2.33	0.63
2:CT:117:SER:HB3	3:DK:192:THR:HG22	1.80	0.63
2:CW:110:VAL:HG11	2:CW:213:MET:HE3	1.81	0.63
2:CW:208:THR:O	2:CW:209:VAL:HG23	1.99	0.63
2:CZ:120:HIS:HA	2:CZ:203:THR:O	1.98	0.63
2:Cf:208:THR:O	2:Cf:209:VAL:HG23	1.99	0.63
2:Cj:120:HIS:HA	2:Cj:203:THR:O	1.98	0.63
2:Co:208:THR:O	2:Co:209:VAL:HG23	1.99	0.63
2:Cq:120:HIS:HA	2:Cq:203:THR:O	1.98	0.63
3:D4:66:ASN:HB3	3:D4:191:LEU:O	1.99	0.63
3:D7:53:PHE:CE2	3:D7:205:LEU:HB3	2.31	0.63
3:D9:66:ASN:HB3	3:D9:191:LEU:O	1.99	0.63
3:DB:53:PHE:CE2	3:DB:205:LEU:HB3	2.31	0.63
3:DB:66:ASN:HB3	3:DB:191:LEU:O	1.99	0.63
3:DK:53:PHE:CE2	3:DK:205:LEU:HB3	2.31	0.63
3:DM:110:PHE:CB	3:DM:148:VAL:HG11	2.29	0.63
3:DN:42:ASN:HD22	3:DN:44:ILE:H	1.46	0.63
3:DT:66:ASN:HB3	3:DT:191:LEU:O	1.99	0.63
3:DX:101:ARG:NH1	3:DX:165:ASP:HB3	2.13	0.63
3:DX:110:PHE:CB	3:DX:148:VAL:HG11	2.29	0.63
3:Db:66:ASN:HB3	3:Db:191:LEU:O	1.99	0.63
3:Dc:101:ARG:NH1	3:Dc:165:ASP:HB3	2.13	0.63
3:Dd:66:ASN:HB3	3:Dd:191:LEU:O	1.99	0.63
3:De:101:ARG:NH1	3:De:165:ASP:HB3	2.13	0.63
3:Dp:110:PHE:CB	3:Dp:148:VAL:HG11	2.29	0.63
3:Ds:66:ASN:HB3	3:Ds:191:LEU:O	1.99	0.63
3:Ds:110:PHE:CB	3:Ds:148:VAL:HG11	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EA:110:PHE:CB	3:EA:148:VAL:HG11	2.29	0.63
3:EE:66:ASN:HB3	3:EE:191:LEU:O	1.99	0.63
1:A3:87:GLN:O	1:A3:88:PHE:HB3	1.98	0.62
1:A3:88:PHE:CE1	1:A3:205:GLY:CA	2.81	0.62
1:AB:104:VAL:HG22	1:AB:197:LEU:HD23	1.80	0.62
1:AE:230:ARG:NH2	3:DE:83:ALA:HB1	2.14	0.62
1:AF:19:LEU:CD1	3:DF:160:TYR:HB3	2.29	0.62
1:AF:87:GLN:O	1:AF:88:PHE:HB3	1.98	0.62
1:AH:187:LEU:CD2	1:AH:188:PRO:HD2	2.25	0.62
1:AH:230:ARG:NH2	3:DH:83:ALA:HB1	2.14	0.62
1:AJ:164:TRP:HZ2	1:AJ:187:LEU:HD21	1.58	0.62
1:AK:207:CYS:H	1:AO:121:LEU:CD2	2.12	0.62
1:AM:230:ARG:NH2	3:DM:83:ALA:HB1	2.14	0.62
1:AO:230:ARG:NH2	3:DO:83:ALA:HB1	2.14	0.62
1:AP:87:GLN:O	1:AP:88:PHE:HB3	1.98	0.62
1:AQ:230:ARG:NH2	3:DQ:83:ALA:HB1	2.14	0.62
1:AT:230:ARG:NH2	3:DU:83:ALA:HB1	2.14	0.62
1:AX:19:LEU:CD1	3:DY:160:TYR:HB3	2.30	0.62
1:Aa:230:ARG:NH2	3:Dc:83:ALA:HB1	2.14	0.62
1:Ab:19:LEU:CD1	3:Dd:160:TYR:HB3	2.29	0.62
1:Ac:230:ARG:NH2	3:De:83:ALA:HB1	2.14	0.62
1:Ad:187:LEU:CD2	1:Ad:188:PRO:HD2	2.25	0.62
1:Ae:88:PHE:CE1	1:Ae:205:GLY:CA	2.81	0.62
1:BD:104:VAL:HG22	1:BD:197:LEU:HD23	1.80	0.62
1:BF:87:GLN:O	1:BF:88:PHE:HB3	1.98	0.62
2:C0:110:VAL:HG11	2:C0:213:MET:HE3	1.81	0.62
2:C8:69:TRP:CZ3	2:C8:124:LEU:HG	2.34	0.62
2:CA:69:TRP:CZ3	2:CA:124:LEU:HG	2.34	0.62
2:CB:32:THR:HG23	2:CB:172:HIS:CE1	2.33	0.62
2:CC:32:THR:HG23	2:CC:172:HIS:CE1	2.33	0.62
2:CH:32:THR:HG23	2:CH:172:HIS:CE1	2.33	0.62
2:CI:69:TRP:CZ3	2:CI:124:LEU:HG	2.34	0.62
2:CN:63:THR:H	3:D2:139:MET:HG3	1.63	0.62
2:CO:63:THR:H	3:DP:139:MET:HG3	1.63	0.62
2:CW:69:TRP:CZ3	2:CW:124:LEU:HG	2.34	0.62
2:CZ:110:VAL:HG11	2:CZ:213:MET:HE3	1.81	0.62
2:Cf:69:TRP:CZ3	2:Cf:124:LEU:HG	2.34	0.62
2:Cf:110:VAL:HG11	2:Cf:213:MET:HE3	1.81	0.62
2:Cj:69:TRP:CZ3	2:Cj:124:LEU:HG	2.34	0.62
2:Cl:110:VAL:HG11	2:Cl:213:MET:HE3	1.81	0.62
2:Cn:63:THR:H	3:De:139:MET:HG3	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ct:69:TRP:CZ3	2:Ct:124:LEU:HG	2.35	0.62
2:Cw:63:THR:H	3:DS:139:MET:HG3	1.63	0.62
2:Cx:208:THR:O	2:Cx:209:VAL:HG23	1.99	0.62
3:D2:110:PHE:CB	3:D2:148:VAL:HG11	2.29	0.62
3:D5:66:ASN:HB3	3:D5:191:LEU:O	1.99	0.62
3:D5:115:ALA:HB1	3:D5:194:THR:OG1	1.98	0.62
3:DB:132:PRO:HG2	3:DB:184:GLN:HE22	1.62	0.62
3:DE:101:ARG:NH1	3:DE:165:ASP:HB3	2.13	0.62
3:DI:110:PHE:CB	3:DI:148:VAL:HG11	2.29	0.62
3:DK:66:ASN:HB3	3:DK:191:LEU:O	1.99	0.62
3:DQ:66:ASN:HB3	3:DQ:191:LEU:O	1.99	0.62
3:Da:27:PRO:HB3	4:Fa:30:TYR:HA	1.81	0.62
3:Dk:110:PHE:CB	3:Dk:148:VAL:HG11	2.29	0.62
3:Dk:115:ALA:HB1	3:Dk:194:THR:OG1	1.98	0.62
3:Dl:66:ASN:HB3	3:Dl:191:LEU:O	1.99	0.62
3:Dn:66:ASN:HB3	3:Dn:191:LEU:O	1.99	0.62
3:Ds:101:ARG:NH1	3:Ds:165:ASP:HB3	2.13	0.62
1:A3:230:ARG:NH2	3:D4:83:ALA:HB1	2.14	0.62
1:A8:19:LEU:CD1	3:D9:160:TYR:HB3	2.29	0.62
1:AA:88:PHE:CE1	1:AA:205:GLY:CA	2.81	0.62
1:AB:143:VAL:H	3:DC:14:PHE:HB3	1.62	0.62
1:AG:230:ARG:NH2	3:DG:83:ALA:HB1	2.14	0.62
1:AI:88:PHE:CE1	1:AI:205:GLY:CA	2.81	0.62
1:AK:104:VAL:HG22	1:AK:197:LEU:HD23	1.80	0.62
1:AO:87:GLN:O	1:AO:88:PHE:HB3	1.98	0.62
1:AV:104:VAL:HG22	1:AV:197:LEU:HD23	1.80	0.62
1:AW:230:ARG:NH2	3:DX:83:ALA:HB1	2.14	0.62
1:AY:121:LEU:CD2	1:AZ:207:CYS:H	2.12	0.62
1:Af:19:LEU:CD1	3:Dh:160:TYR:HB3	2.29	0.62
1:Ah:187:LEU:CD2	1:Ah:188:PRO:HD2	2.25	0.62
1:Aj:230:ARG:NH2	3:DI:83:ALA:HB1	2.14	0.62
1:Ak:187:LEU:CD2	1:Ak:188:PRO:HD2	2.25	0.62
1:Ao:19:LEU:CD1	3:DS:160:TYR:HB3	2.29	0.62
1:Ao:230:ARG:NH2	3:DS:83:ALA:HB1	2.14	0.62
1:BF:19:LEU:CD1	3:EB:160:TYR:HB3	2.29	0.62
1:BI:187:LEU:CD2	1:BI:188:PRO:HD2	2.25	0.62
2:C2:117:SER:HB3	3:Dh:192:THR:HG22	1.80	0.62
2:C8:117:SER:HB3	3:D9:192:THR:HG22	1.80	0.62
2:CC:208:THR:O	2:CC:209:VAL:HG23	1.99	0.62
2:CE:69:TRP:CZ3	2:CE:124:LEU:HG	2.34	0.62
2:CF:63:THR:H	3:D6:139:MET:HG3	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:110:VAL:HG11	2:CL:213:MET:HE3	1.81	0.62
2:CR:208:THR:O	2:CR:209:VAL:HG23	1.99	0.62
2:CS:69:TRP:CZ3	2:CS:124:LEU:HG	2.34	0.62
2:CX:69:TRP:CZ3	2:CX:124:LEU:HG	2.34	0.62
2:CX:110:VAL:HG11	2:CX:213:MET:HE3	1.81	0.62
2:Cf:63:THR:H	3:DV:139:MET:HG3	1.63	0.62
2:Cg:110:VAL:HG11	2:Cg:213:MET:HE3	1.81	0.62
2:Ch:69:TRP:CZ3	2:Ch:124:LEU:HG	2.35	0.62
2:Ci:209:VAL:H	2:Ci:210:PRO:CD	2.07	0.62
2:Cp:63:THR:H	3:D0:139:MET:HG3	1.63	0.62
2:Cv:65:LYS:HB2	3:Dd:135:ARG:HH21	1.61	0.62
2:Cv:69:TRP:CZ3	2:Cv:124:LEU:HG	2.35	0.62
2:Cw:69:TRP:CZ3	2:Cw:124:LEU:HG	2.34	0.62
3:D0:101:ARG:NH1	3:D0:165:ASP:HB3	2.13	0.62
3:D1:42:ASN:HD22	3:D1:44:ILE:H	1.46	0.62
3:D6:101:ARG:NH1	3:D6:165:ASP:HB3	2.13	0.62
3:D6:110:PHE:CB	3:D6:148:VAL:HG11	2.28	0.62
3:D7:27:PRO:HB3	4:F7:30:TYR:HA	1.82	0.62
3:D7:42:ASN:HD22	3:D7:44:ILE:H	1.46	0.62
3:D7:110:PHE:CB	3:D7:148:VAL:HG11	2.29	0.62
3:DD:66:ASN:HB3	3:DD:191:LEU:O	1.99	0.62
3:DG:66:ASN:HB3	3:DG:191:LEU:O	1.99	0.62
3:DK:27:PRO:HB3	4:FK:30:TYR:HA	1.82	0.62
3:DS:27:PRO:HB3	4:FS:30:TYR:HA	1.81	0.62
3:DU:110:PHE:CB	3:DU:148:VAL:HG11	2.29	0.62
3:DV:53:PHE:CE2	3:DV:205:LEU:HB3	2.31	0.62
3:Db:53:PHE:CE2	3:Db:205:LEU:HB3	2.31	0.62
3:Df:53:PHE:CE2	3:Df:205:LEU:HB3	2.31	0.62
3:Di:42:ASN:HD22	3:Di:44:ILE:H	1.46	0.62
3:Dl:110:PHE:CB	3:Dl:148:VAL:HG11	2.29	0.62
3:Dn:42:ASN:HD22	3:Dn:44:ILE:H	1.46	0.62
3:Dp:66:ASN:HB3	3:Dp:191:LEU:O	1.99	0.62
3:EC:115:ALA:HB1	3:EC:194:THR:OG1	1.98	0.62
3:EE:110:PHE:CB	3:EE:148:VAL:HG11	2.29	0.62
1:A4:88:PHE:CE1	1:A4:205:GLY:CA	2.81	0.62
1:A6:19:LEU:CD1	3:D7:160:TYR:HB3	2.29	0.62
1:A6:187:LEU:CD2	1:A6:188:PRO:HD2	2.25	0.62
1:A6:230:ARG:NH2	3:D7:83:ALA:HB1	2.14	0.62
1:A8:38:PHE:HD1	1:Ab:137:GLY:HA2	1.65	0.62
1:AC:137:GLY:HA2	1:AD:38:PHE:HD1	1.65	0.62
1:AD:230:ARG:NH2	3:DD:83:ALA:HB1	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:143:VAL:H	3:DJ:14:PHE:HB3	1.62	0.62
1:AL:19:LEU:CD1	3:DL:160:TYR:HB3	2.29	0.62
1:AM:104:VAL:HG22	1:AM:197:LEU:HD23	1.80	0.62
1:AT:137:GLY:HA2	1:AU:38:PHE:HD1	1.64	0.62
1:AW:164:TRP:HZ2	1:AW:187:LEU:HD21	1.58	0.62
1:Ad:88:PHE:CE1	1:Ad:205:GLY:CA	2.81	0.62
1:Af:143:VAL:H	3:Di:14:PHE:HB3	1.62	0.62
1:Ah:87:GLN:O	1:Ah:88:PHE:HB3	1.98	0.62
1:Ai:137:GLY:HA2	1:Aj:38:PHE:HD1	1.65	0.62
1:Aj:143:VAL:H	3:Dm:14:PHE:HB3	1.62	0.62
1:Am:87:GLN:O	1:Am:88:PHE:HB3	1.98	0.62
1:BD:87:GLN:O	1:BD:88:PHE:HB3	1.98	0.62
2:C2:69:TRP:CZ3	2:C2:124:LEU:HG	2.34	0.62
2:C4:208:THR:O	2:C4:209:VAL:HG23	1.99	0.62
2:C6:69:TRP:CZ3	2:C6:124:LEU:HG	2.35	0.62
2:CC:15:GLU:HG3	2:CC:29:SER:CB	2.30	0.62
2:CO:23:ILE:HD12	2:CO:23:ILE:N	2.15	0.62
2:CO:110:VAL:HG11	2:CO:213:MET:HE3	1.81	0.62
2:CR:69:TRP:CZ3	2:CR:124:LEU:HG	2.34	0.62
2:CT:63:THR:H	3:DK:139:MET:HG3	1.63	0.62
2:CT:69:TRP:CZ3	2:CT:124:LEU:HG	2.34	0.62
2:CY:117:SER:HB3	3:DZ:192:THR:HG22	1.80	0.62
2:Ce:208:THR:O	2:Ce:209:VAL:HG23	1.99	0.62
2:Cf:32:THR:HG23	2:Cf:172:HIS:CE1	2.33	0.62
2:Cm:32:THR:HG23	2:Cm:172:HIS:CE1	2.33	0.62
2:Cv:23:ILE:HD12	2:Cv:23:ILE:N	2.15	0.62
2:Cx:115:ASN:C	3:Do:119:LYS:HZ3	2.06	0.62
3:D0:27:PRO:HB3	4:F0:30:TYR:HA	1.81	0.62
3:D3:101:ARG:NH1	3:D3:165:ASP:HB3	2.13	0.62
3:DB:101:ARG:NH1	3:DB:165:ASP:HB3	2.13	0.62
3:DC:66:ASN:HB3	3:DC:191:LEU:O	1.99	0.62
3:DG:110:PHE:CB	3:DG:148:VAL:HG11	2.29	0.62
3:DM:101:ARG:NH1	3:DM:165:ASP:HB3	2.13	0.62
3:DO:42:ASN:HD22	3:DO:44:ILE:H	1.46	0.62
3:DW:42:ASN:HD22	3:DW:44:ILE:H	1.46	0.62
3:DW:110:PHE:CB	3:DW:148:VAL:HG11	2.29	0.62
3:Dc:66:ASN:HB3	3:Dc:191:LEU:O	1.99	0.62
3:De:42:ASN:HD22	3:De:44:ILE:H	1.46	0.62
3:Di:27:PRO:HB3	4:Fi:30:TYR:HA	1.82	0.62
1:A2:87:GLN:O	1:A2:88:PHE:HB3	1.98	0.62
1:A2:88:PHE:CE1	1:A2:205:GLY:CA	2.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:187:LEU:CD2	1:A8:188:PRO:HD2	2.25	0.62
1:AA:38:PHE:HD1	1:AE:137:GLY:HA2	1.65	0.62
1:AB:87:GLN:O	1:AB:88:PHE:HB3	1.98	0.62
1:AD:130:ILE:HD11	1:AD:135:VAL:CG1	2.30	0.62
1:AJ:130:ILE:HD11	1:AJ:135:VAL:CG1	2.30	0.62
1:AQ:87:GLN:O	1:AQ:88:PHE:HB3	1.98	0.62
1:AU:104:VAL:HG22	1:AU:197:LEU:HD23	1.80	0.62
1:AU:143:VAL:H	3:DW:14:PHE:HB3	1.62	0.62
1:AW:137:GLY:HA2	1:AX:38:PHE:HD1	1.65	0.62
1:Aa:143:VAL:H	3:Dd:14:PHE:HB3	1.62	0.62
1:Af:230:ARG:NH2	3:Dh:83:ALA:HB1	2.14	0.62
1:Ag:19:LEU:CD1	3:Di:160:TYR:HB3	2.29	0.62
1:Ak:130:ILE:HD11	1:Ak:135:VAL:CG1	2.30	0.62
1:Ao:87:GLN:O	1:Ao:88:PHE:HB3	1.98	0.62
1:BB:88:PHE:CE1	1:BB:205:GLY:CA	2.81	0.62
1:BE:104:VAL:HG22	1:BE:197:LEU:HD23	1.80	0.62
1:BE:137:GLY:HA2	1:BF:38:PHE:HD1	1.65	0.62
1:BE:230:ARG:NH2	3:EA:83:ALA:HB1	2.14	0.62
1:BH:19:LEU:CD1	3:ED:160:TYR:HB3	2.29	0.62
2:C5:63:THR:H	3:DG:139:MET:HG3	1.63	0.62
2:C7:23:ILE:HD12	2:C7:23:ILE:N	2.15	0.62
2:C9:208:THR:O	2:C9:209:VAL:HG23	1.99	0.62
2:CA:208:THR:O	2:CA:209:VAL:HG23	1.99	0.62
2:CH:208:THR:O	2:CH:209:VAL:HG23	1.99	0.62
2:CL:23:ILE:HD12	2:CL:23:ILE:N	2.15	0.62
2:CL:208:THR:O	2:CL:209:VAL:HG23	1.99	0.62
2:CO:69:TRP:CZ3	2:CO:124:LEU:HG	2.34	0.62
2:CT:110:VAL:HG11	2:CT:213:MET:HE3	1.81	0.62
2:CU:18:VAL:HG13	2:CU:23:ILE:HG13	1.82	0.62
2:CW:63:THR:H	3:DJ:139:MET:HG3	1.63	0.62
2:CZ:69:TRP:CZ3	2:CZ:124:LEU:HG	2.35	0.62
2:Ca:63:THR:H	3:DL:139:MET:HG3	1.63	0.62
2:Cb:69:TRP:CZ3	2:Cb:124:LEU:HG	2.34	0.62
2:Cc:69:TRP:CZ3	2:Cc:124:LEU:HG	2.34	0.62
2:Cg:69:TRP:CZ3	2:Cg:124:LEU:HG	2.34	0.62
2:Cl:117:SER:HB3	3:D8:192:THR:HG22	1.80	0.62
2:Cm:23:ILE:HD12	2:Cm:23:ILE:N	2.15	0.62
3:D0:42:ASN:HD22	3:D0:44:ILE:H	1.46	0.62
3:D0:66:ASN:HB3	3:D0:191:LEU:O	1.99	0.62
3:D1:53:PHE:CE2	3:D1:205:LEU:HB3	2.31	0.62
3:D2:27:PRO:HB3	4:F2:30:TYR:HA	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D5:42:ASN:HD22	3:D5:44:ILE:H	1.46	0.62
3:D8:42:ASN:HD22	3:D8:44:ILE:H	1.46	0.62
3:DJ:42:ASN:HD22	3:DJ:44:ILE:H	1.46	0.62
3:DT:101:ARG:NH1	3:DT:165:ASP:HB3	2.13	0.62
3:DT:115:ALA:HB1	3:DT:194:THR:OG1	1.98	0.62
3:DU:27:PRO:HB3	4:FU:30:TYR:HA	1.82	0.62
3:Di:66:ASN:HB3	3:Di:191:LEU:O	1.99	0.62
3:Dq:110:PHE:CB	3:Dq:148:VAL:HG11	2.29	0.62
3:EC:27:PRO:HB3	4:Fv:30:TYR:HA	1.82	0.62
1:A0:19:LEU:CD1	3:D1:160:TYR:HB3	2.29	0.62
1:A1:187:LEU:CD2	1:A1:188:PRO:HD2	2.25	0.62
1:A2:19:LEU:CD1	3:D3:160:TYR:HB3	2.30	0.62
1:A2:130:ILE:HD11	1:A2:135:VAL:CG1	2.30	0.62
1:A2:137:GLY:HA2	1:AY:38:PHE:HD1	1.65	0.62
1:A9:87:GLN:O	1:A9:88:PHE:HB3	1.98	0.62
1:AA:230:ARG:NH2	3:DA:83:ALA:HB1	2.14	0.62
1:AB:137:GLY:HA2	1:AC:38:PHE:HD1	1.65	0.62
1:AF:38:PHE:HD1	1:AJ:137:GLY:HA2	1.65	0.62
1:AG:19:LEU:CD1	3:DG:160:TYR:HB3	2.29	0.62
1:AI:74:THR:HG21	3:DI:43:PHE:CZ	2.35	0.62
1:AM:87:GLN:O	1:AM:88:PHE:HB3	1.98	0.62
1:AN:19:LEU:CD1	3:DN:160:TYR:HB3	2.29	0.62
1:AP:143:VAL:H	3:DQ:14:PHE:HB3	1.62	0.62
1:AR:87:GLN:O	1:AR:88:PHE:HB3	1.98	0.62
1:AS:19:LEU:CD1	3:DT:160:TYR:HB3	2.29	0.62
1:AS:38:PHE:HD1	1:Ao:137:GLY:HA2	1.65	0.62
1:AV:230:ARG:NH2	3:DW:83:ALA:HB1	2.14	0.62
1:AX:230:ARG:NH2	3:DY:83:ALA:HB1	2.14	0.62
1:AY:164:TRP:HZ2	1:AY:187:LEU:HD21	1.58	0.62
1:Ab:164:TRP:HZ2	1:Ab:187:LEU:HD21	1.58	0.62
1:Af:87:GLN:O	1:Af:88:PHE:HB3	1.98	0.62
1:An:143:VAL:H	3:Dc:14:PHE:HB3	1.62	0.62
1:Ao:104:VAL:HG22	1:Ao:197:LEU:HD23	1.80	0.62
1:BE:19:LEU:CD1	3:EA:160:TYR:HB3	2.29	0.62
1:BE:38:PHE:HD1	1:BI:137:GLY:HA2	1.65	0.62
1:BG:137:GLY:HA2	1:BH:38:PHE:HD1	1.65	0.62
1:BI:164:TRP:HZ2	1:BI:187:LEU:HD21	1.58	0.62
2:C0:23:ILE:HD12	2:C0:23:ILE:N	2.15	0.62
2:C1:18:VAL:HG13	2:C1:23:ILE:HG13	1.82	0.62
2:C1:23:ILE:HD12	2:C1:23:ILE:N	2.15	0.62
2:C3:23:ILE:HD12	2:C3:23:ILE:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:120:HIS:HA	2:C3:203:THR:O	1.98	0.62
2:C4:15:GLU:HG3	2:C4:29:SER:CB	2.30	0.62
2:C4:63:THR:H	3:EC:139:MET:HG3	1.63	0.62
2:C9:110:VAL:HG11	2:C9:213:MET:HE3	1.81	0.62
2:CB:18:VAL:HG13	2:CB:23:ILE:HG13	1.82	0.62
2:CB:110:VAL:HG11	2:CB:213:MET:HE3	1.81	0.62
2:CG:18:VAL:HG13	2:CG:23:ILE:HG13	1.82	0.62
2:CH:18:VAL:HG13	2:CH:23:ILE:HG13	1.82	0.62
2:CM:23:ILE:HD12	2:CM:23:ILE:N	2.15	0.62
2:CT:208:THR:O	2:CT:209:VAL:HG23	1.99	0.62
2:CV:23:ILE:HD12	2:CV:23:ILE:N	2.15	0.62
2:CV:32:THR:HG23	2:CV:172:HIS:CE1	2.33	0.62
2:CV:69:TRP:CZ3	2:CV:124:LEU:HG	2.35	0.62
2:CY:23:ILE:N	2:CY:23:ILE:HD12	2.15	0.62
2:CY:110:VAL:HG11	2:CY:213:MET:HE3	1.81	0.62
2:Cd:15:GLU:HG3	2:Cd:29:SER:CB	2.30	0.62
2:Cg:15:GLU:HG3	2:Cg:29:SER:CB	2.30	0.62
2:Cg:23:ILE:HD12	2:Cg:23:ILE:N	2.15	0.62
2:Cg:208:THR:O	2:Cg:209:VAL:HG23	1.99	0.62
2:Ci:69:TRP:CZ3	2:Ci:124:LEU:HG	2.34	0.62
2:Ck:23:ILE:HD12	2:Ck:23:ILE:N	2.15	0.62
2:Ck:110:VAL:HG11	2:Ck:213:MET:HE3	1.81	0.62
2:Cm:110:VAL:HG11	2:Cm:213:MET:HE3	1.81	0.62
2:Cp:117:SER:HB3	3:D0:192:THR:HG22	1.80	0.62
2:Cq:69:TRP:CZ3	2:Cq:124:LEU:HG	2.35	0.62
2:Cu:23:ILE:HD12	2:Cu:23:ILE:N	2.15	0.62
2:Cv:15:GLU:HG3	2:Cv:29:SER:CB	2.30	0.62
2:Cx:110:VAL:HG11	2:Cx:213:MET:HE3	1.81	0.62
3:D0:110:PHE:CB	3:D0:148:VAL:HG11	2.29	0.62
3:D5:101:ARG:NH1	3:D5:165:ASP:HB3	2.13	0.62
3:DA:101:ARG:NH1	3:DA:165:ASP:HB3	2.13	0.62
3:DF:27:PRO:HB3	4:FF:30:TYR:HA	1.81	0.62
3:DH:53:PHE:CE2	3:DH:205:LEU:HB3	2.31	0.62
3:DO:101:ARG:NH1	3:DO:165:ASP:HB3	2.13	0.62
3:DV:27:PRO:HB3	4:FV:30:TYR:HA	1.82	0.62
3:DY:27:PRO:HB3	4:FY:30:TYR:HA	1.82	0.62
3:DZ:101:ARG:NH1	3:DZ:165:ASP:HB3	2.13	0.62
3:De:27:PRO:HB3	4:Fe:30:TYR:HA	1.82	0.62
3:Dj:110:PHE:CB	3:Dj:148:VAL:HG11	2.29	0.62
3:Dk:42:ASN:HD22	3:Dk:44:ILE:H	1.46	0.62
3:Dl:53:PHE:CE2	3:Dl:205:LEU:HB3	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dr:53:PHE:CE2	3:Dr:205:LEU:HB3	2.31	0.62
3:EB:27:PRO:HB3	4:Fu:30:TYR:HA	1.82	0.62
3:EC:42:ASN:HD22	3:EC:44:ILE:H	1.46	0.62
3:ED:27:PRO:HB3	4:Fw:30:TYR:HA	1.82	0.62
3:ED:66:ASN:HB3	3:ED:191:LEU:O	1.99	0.62
3:EE:42:ASN:HD22	3:EE:44:ILE:H	1.46	0.62
3:EE:132:PRO:HG2	3:EE:184:GLN:HE22	1.62	0.62
1:A1:130:ILE:HD11	1:A1:135:VAL:CG1	2.30	0.62
1:A6:137:GLY:HA2	1:A7:38:PHE:HD1	1.65	0.62
1:A8:137:GLY:HA2	1:A9:38:PHE:HD1	1.65	0.62
1:A9:74:THR:HG21	3:Da:43:PHE:CZ	2.35	0.62
1:AF:230:ARG:NH2	3:DF:83:ALA:HB1	2.14	0.62
1:AH:130:ILE:HD11	1:AH:135:VAL:CG1	2.30	0.62
1:AI:130:ILE:HD11	1:AI:135:VAL:CG1	2.30	0.62
1:AO:19:LEU:CD1	3:DO:160:TYR:HB3	2.29	0.62
1:AP:38:PHE:HD1	1:AS:137:GLY:HA2	1.65	0.62
1:AU:88:PHE:CE1	1:AU:205:GLY:CA	2.81	0.62
1:AU:130:ILE:HD11	1:AU:135:VAL:CG1	2.30	0.62
1:Ab:104:VAL:HG22	1:Ab:197:LEU:HD23	1.80	0.62
1:Ae:19:LEU:CD1	3:Dg:160:TYR:HB3	2.29	0.62
1:Ae:230:ARG:NH2	3:Dg:83:ALA:HB1	2.14	0.62
1:Af:130:ILE:HD11	1:Af:135:VAL:CG1	2.30	0.62
1:Ag:187:LEU:CD2	1:Ag:188:PRO:HD2	2.25	0.62
1:Ah:19:LEU:CD1	3:Dj:160:TYR:HB3	2.29	0.62
1:Ah:104:VAL:HG22	1:Ah:197:LEU:HD23	1.80	0.62
1:Ai:164:TRP:HZ2	1:Ai:187:LEU:HD21	1.58	0.62
1:Aj:19:LEU:CD1	3:Di:160:TYR:HB3	2.29	0.62
1:Aj:187:LEU:CD2	1:Aj:188:PRO:HD2	2.25	0.62
1:Ak:137:GLY:HA2	1:Al:38:PHE:HD1	1.65	0.62
1:Am:19:LEU:CD1	3:Do:160:TYR:HB3	2.30	0.62
1:Am:38:PHE:HD1	1:BD:137:GLY:HA2	1.65	0.62
1:An:88:PHE:CE1	1:An:205:GLY:CA	2.81	0.62
1:BC:121:LEU:CD2	1:BD:207:CYS:H	2.12	0.62
1:BD:19:LEU:CD1	3:Ds:160:TYR:HB3	2.30	0.62
1:BD:74:THR:HG21	3:Ds:43:PHE:CZ	2.35	0.62
1:BD:130:ILE:HD11	1:BD:135:VAL:CG1	2.30	0.62
1:BG:130:ILE:HD11	1:BG:135:VAL:CG1	2.30	0.62
2:C1:15:GLU:HG3	2:C1:29:SER:CB	2.30	0.62
2:C1:69:TRP:CZ3	2:C1:124:LEU:HG	2.35	0.62
2:C3:69:TRP:CZ3	2:C3:124:LEU:HG	2.34	0.62
2:C4:23:ILE:HD12	2:C4:23:ILE:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:208:THR:O	2:C6:209:VAL:HG23	1.99	0.62
2:C7:110:VAL:HG11	2:C7:213:MET:HE3	1.81	0.62
2:C8:23:ILE:N	2:C8:23:ILE:HD12	2.15	0.62
2:CD:208:THR:O	2:CD:209:VAL:HG23	1.99	0.62
2:CG:117:SER:HB3	3:EB:192:THR:HG22	1.80	0.62
2:CH:23:ILE:HD12	2:CH:23:ILE:N	2.15	0.62
2:CI:15:GLU:HG3	2:CI:29:SER:CB	2.30	0.62
2:CI:110:VAL:HG11	2:CI:213:MET:HE3	1.81	0.62
2:CJ:69:TRP:CZ3	2:CJ:124:LEU:HG	2.34	0.62
2:CK:69:TRP:CZ3	2:CK:124:LEU:HG	2.34	0.62
2:CL:15:GLU:HG3	2:CL:29:SER:CB	2.30	0.62
2:CQ:23:ILE:HD12	2:CQ:23:ILE:N	2.15	0.62
2:CV:18:VAL:HG13	2:CV:23:ILE:HG13	1.82	0.62
2:CV:63:THR:H	3:DB:139:MET:HG3	1.63	0.62
2:CW:15:GLU:HG3	2:CW:29:SER:CB	2.30	0.62
2:CX:18:VAL:HG13	2:CX:23:ILE:HG13	1.82	0.62
2:Ca:23:ILE:HD12	2:Ca:23:ILE:N	2.15	0.62
2:Ch:23:ILE:HD12	2:Ch:23:ILE:N	2.15	0.62
2:Cj:23:ILE:HD12	2:Cj:23:ILE:N	2.15	0.62
2:Ck:15:GLU:HG3	2:Ck:29:SER:CB	2.30	0.62
2:Co:115:ASN:C	3:DR:119:LYS:HZ3	2.06	0.62
2:Cr:18:VAL:HG13	2:Cr:23:ILE:HG13	1.82	0.62
2:Ct:23:ILE:HD12	2:Ct:23:ILE:N	2.15	0.62
2:Cu:69:TRP:CZ3	2:Cu:124:LEU:HG	2.34	0.62
2:Cu:208:THR:O	2:Cu:209:VAL:HG23	1.99	0.62
3:D3:110:PHE:CB	3:D3:148:VAL:HG11	2.29	0.62
3:D7:66:ASN:HB3	3:D7:191:LEU:O	1.99	0.62
3:DH:42:ASN:HD22	3:DH:44:ILE:H	1.46	0.62
3:DM:66:ASN:HB3	3:DM:191:LEU:O	1.99	0.62
3:DN:110:PHE:CB	3:DN:148:VAL:HG11	2.29	0.62
3:DW:101:ARG:NH1	3:DW:165:ASP:HB3	2.13	0.62
3:Dc:42:ASN:HD22	3:Dc:44:ILE:H	1.46	0.62
3:Dd:101:ARG:NH1	3:Dd:165:ASP:HB3	2.13	0.62
3:De:66:ASN:HB3	3:De:191:LEU:O	1.99	0.62
3:De:110:PHE:CB	3:De:148:VAL:HG11	2.29	0.62
3:Dl:27:PRO:HB3	4:Fl:30:TYR:HA	1.82	0.62
3:Dn:27:PRO:HB3	4:Fn:30:TYR:HA	1.82	0.62
3:EA:42:ASN:HD22	3:EA:44:ILE:H	1.46	0.62
1:A2:104:VAL:HG22	1:A2:197:LEU:HD23	1.80	0.62
1:A5:19:LEU:CD1	3:D6:160:TYR:HB3	2.29	0.62
1:A8:230:ARG:NH2	3:D9:83:ALA:HB1	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:19:LEU:CD1	3:DA:160:TYR:HB3	2.29	0.62
1:AB:19:LEU:CD1	3:DB:160:TYR:HB3	2.30	0.62
1:AC:19:LEU:CD1	3:DC:160:TYR:HB3	2.30	0.62
1:AC:130:ILE:HD11	1:AC:135:VAL:CG1	2.30	0.62
1:AO:187:LEU:CD2	1:AO:188:PRO:HD2	2.25	0.62
1:AP:130:ILE:HD11	1:AP:135:VAL:CG1	2.30	0.62
1:AS:230:ARG:NH2	3:DT:83:ALA:HB1	2.14	0.62
1:AU:19:LEU:CD1	3:DV:160:TYR:HB3	2.29	0.62
1:Ab:230:ARG:NH2	3:Dd:83:ALA:HB1	2.14	0.62
1:Ad:19:LEU:CD1	3:Df:160:TYR:HB3	2.29	0.62
1:Ah:74:THR:HG21	3:Dj:43:PHE:CZ	2.35	0.62
1:BA:19:LEU:CD1	3:Dp:160:TYR:HB3	2.30	0.62
1:BC:74:THR:HG21	3:Dr:43:PHE:CZ	2.35	0.62
1:BC:230:ARG:NH2	3:Dr:83:ALA:HB1	2.14	0.62
1:BD:230:ARG:NH2	3:Ds:83:ALA:HB1	2.14	0.62
1:BG:104:VAL:HG22	1:BG:197:LEU:HD23	1.80	0.62
1:BH:87:GLN:O	1:BH:88:PHE:HB3	1.98	0.62
2:C0:69:TRP:CZ3	2:C0:124:LEU:HG	2.35	0.62
2:C9:69:TRP:CZ3	2:C9:124:LEU:HG	2.35	0.62
2:CA:18:VAL:HG13	2:CA:23:ILE:HG13	1.82	0.62
2:CC:69:TRP:CZ3	2:CC:124:LEU:HG	2.34	0.62
2:CD:69:TRP:CZ3	2:CD:124:LEU:HG	2.34	0.62
2:CF:15:GLU:HG3	2:CF:29:SER:CB	2.30	0.62
2:CF:117:SER:HB3	3:D6:192:THR:HG22	1.80	0.62
2:CG:15:GLU:HG3	2:CG:29:SER:CB	2.30	0.62
2:CJ:15:GLU:HG3	2:CJ:29:SER:CB	2.30	0.62
2:CL:69:TRP:CZ3	2:CL:124:LEU:HG	2.35	0.62
2:CM:117:SER:HB3	3:Di:192:THR:HG22	1.80	0.62
2:CN:18:VAL:HG13	2:CN:23:ILE:HG13	1.82	0.62
2:CP:69:TRP:CZ3	2:CP:124:LEU:HG	2.34	0.62
2:CQ:63:THR:H	3:Dp:139:MET:HG3	1.63	0.62
2:CQ:69:TRP:CZ3	2:CQ:124:LEU:HG	2.34	0.62
2:CW:18:VAL:HG13	2:CW:23:ILE:HG13	1.82	0.62
2:CW:23:ILE:HD12	2:CW:23:ILE:N	2.15	0.62
2:CX:23:ILE:HD12	2:CX:23:ILE:N	2.15	0.62
2:Cb:23:ILE:HD12	2:Cb:23:ILE:N	2.15	0.62
2:Cb:207:GLN:HE22	3:DT:192:THR:HA	1.65	0.62
2:Cc:110:VAL:HG11	2:Cc:213:MET:HE3	1.81	0.62
2:Cd:23:ILE:HD12	2:Cd:23:ILE:N	2.15	0.62
2:Cd:69:TRP:CZ3	2:Cd:124:LEU:HG	2.34	0.62
2:Cg:207:GLN:HE22	3:D3:192:THR:HA	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ci:15:GLU:HG3	2:Ci:29:SER:CB	2.30	0.62
2:Cn:69:TRP:CZ3	2:Cn:124:LEU:HG	2.35	0.62
2:Cn:110:VAL:HG11	2:Cn:213:MET:HE3	1.81	0.62
2:Cp:18:VAL:HG13	2:Cp:23:ILE:HG13	1.82	0.62
2:Cp:208:THR:O	2:Cp:209:VAL:HG23	1.99	0.62
2:Cs:23:ILE:HD12	2:Cs:23:ILE:N	2.15	0.62
2:Cx:15:GLU:HG3	2:Cx:29:SER:CB	2.30	0.62
2:Cx:69:TRP:CZ3	2:Cx:124:LEU:HG	2.34	0.62
3:D4:27:PRO:HB3	4:F4:30:TYR:HA	1.82	0.62
3:D7:101:ARG:NH1	3:D7:165:ASP:HB3	2.13	0.62
3:DB:27:PRO:HB3	4:FB:30:TYR:HA	1.82	0.62
3:DE:53:PHE:CE2	3:DE:205:LEU:HB3	2.31	0.62
3:DP:66:ASN:HB3	3:DP:191:LEU:O	1.99	0.62
3:DS:110:PHE:CB	3:DS:148:VAL:HG11	2.29	0.62
3:DV:66:ASN:HB3	3:DV:191:LEU:O	1.99	0.62
1:A0:130:ILE:HD11	1:A0:135:VAL:CG1	2.30	0.62
1:A4:74:THR:HG21	3:D5:43:PHE:CZ	2.35	0.62
1:AD:74:THR:HG21	3:DD:43:PHE:CZ	2.35	0.62
1:AE:87:GLN:O	1:AE:88:PHE:HB3	1.98	0.62
1:AH:104:VAL:HG22	1:AH:197:LEU:HD23	1.80	0.62
1:AK:230:ARG:NH2	3:DK:83:ALA:HB1	2.14	0.62
1:AP:74:THR:HG21	3:DP:43:PHE:CZ	2.35	0.62
1:AP:137:GLY:HA2	1:AQ:38:PHE:HD1	1.65	0.62
1:AT:19:LEU:CD1	3:DU:160:TYR:HB3	2.29	0.62
1:AX:87:GLN:O	1:AX:88:PHE:HB3	1.98	0.62
1:AY:74:THR:HG21	3:DZ:43:PHE:CZ	2.35	0.62
1:AZ:19:LEU:CD1	3:D0:160:TYR:HB3	2.29	0.62
1:AZ:230:ARG:NH2	3:D0:83:ALA:HB1	2.14	0.62
1:Aa:130:ILE:HD11	1:Aa:135:VAL:CG1	2.30	0.62
1:Ab:74:THR:HG21	3:Dd:43:PHE:CZ	2.35	0.62
1:Ae:104:VAL:HG22	1:Ae:197:LEU:HD23	1.80	0.62
1:Ag:74:THR:HG21	3:Di:43:PHE:CZ	2.35	0.62
1:Ag:130:ILE:HD11	1:Ag:135:VAL:CG1	2.30	0.62
1:Ak:19:LEU:CD1	3:Dm:160:TYR:HB3	2.29	0.62
1:Ak:74:THR:HG21	3:Dm:43:PHE:CZ	2.35	0.62
1:Ao:74:THR:HG21	3:DS:43:PHE:CZ	2.35	0.62
1:BA:74:THR:HG21	3:Dp:43:PHE:CZ	2.35	0.62
1:BE:130:ILE:HD11	1:BE:135:VAL:CG1	2.30	0.62
2:C2:208:THR:O	2:C2:209:VAL:HG23	1.99	0.62
2:C7:207:GLN:HE22	3:Dm:192:THR:HA	1.65	0.62
2:C9:15:GLU:HG3	2:C9:29:SER:CB	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:208:THR:O	2:CG:209:VAL:HG23	1.99	0.62
2:CH:110:VAL:HG11	2:CH:213:MET:HE3	1.81	0.62
2:CH:207:GLN:HE22	3:Ds:192:THR:HA	1.65	0.62
2:CJ:18:VAL:HG13	2:CJ:23:ILE:HG13	1.82	0.62
2:CJ:207:GLN:HE22	3:DA:192:THR:HA	1.65	0.62
2:CK:23:ILE:HD12	2:CK:23:ILE:N	2.15	0.62
2:CK:110:VAL:HG11	2:CK:213:MET:HE3	1.81	0.62
2:CM:69:TRP:CZ3	2:CM:124:LEU:HG	2.35	0.62
2:CO:209:VAL:H	2:CO:210:PRO:CD	2.07	0.62
2:CR:18:VAL:HG13	2:CR:23:ILE:HG13	1.82	0.62
2:CT:23:ILE:HD12	2:CT:23:ILE:N	2.15	0.62
2:CU:110:VAL:HG11	2:CU:213:MET:HE3	1.81	0.62
2:CV:110:VAL:HG11	2:CV:213:MET:HE3	1.81	0.62
2:CZ:207:GLN:HE22	3:Dq:192:THR:HA	1.65	0.62
2:Ci:23:ILE:HD12	2:Ci:23:ILE:N	2.15	0.62
2:Ck:69:TRP:CZ3	2:Ck:124:LEU:HG	2.35	0.62
2:Ck:208:THR:O	2:Ck:209:VAL:HG23	1.99	0.62
2:Cl:23:ILE:HD12	2:Cl:23:ILE:N	2.15	0.62
2:Cp:15:GLU:HG3	2:Cp:29:SER:CB	2.30	0.62
2:Cq:18:VAL:HG13	2:Cq:23:ILE:HG13	1.82	0.62
2:Cr:63:THR:H	3:DI:139:MET:HG3	1.63	0.62
2:Cw:18:VAL:HG13	2:Cw:23:ILE:HG13	1.82	0.62
2:Cw:110:VAL:HG11	2:Cw:213:MET:HE3	1.81	0.62
2:Cw:208:THR:O	2:Cw:209:VAL:HG23	1.99	0.62
3:D8:66:ASN:HB3	3:D8:191:LEU:O	1.99	0.62
3:DN:27:PRO:HB3	4:FN:30:TYR:HA	1.82	0.62
3:DP:27:PRO:HB3	4:FP:30:TYR:HA	1.81	0.62
3:DX:53:PHE:CE2	3:DX:205:LEU:HB3	2.31	0.62
3:DZ:42:ASN:HD22	3:DZ:44:ILE:H	1.46	0.62
3:Dj:27:PRO:HB3	4:Fj:30:TYR:HA	1.82	0.62
3:Ds:27:PRO:HB3	4:Fs:30:TYR:HA	1.82	0.62
1:A0:74:THR:HG21	3:D1:43:PHE:CZ	2.35	0.62
1:A6:88:PHE:CE1	1:A6:205:GLY:CA	2.81	0.62
1:AD:19:LEU:CD1	3:DD:160:TYR:HB3	2.29	0.62
1:AD:137:GLY:HA2	1:AE:38:PHE:HD1	1.65	0.62
1:AF:88:PHE:CE1	1:AF:205:GLY:CA	2.81	0.62
1:AI:137:GLY:HA2	1:AJ:38:PHE:HD1	1.64	0.62
1:AJ:19:LEU:CD1	3:DJ:160:TYR:HB3	2.29	0.62
1:AL:74:THR:HG21	3:DL:43:PHE:CZ	2.35	0.62
1:AQ:19:LEU:CD1	3:DQ:160:TYR:HB3	2.30	0.62
1:AQ:74:THR:HG21	3:DQ:43:PHE:CZ	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:137:GLY:HA2	1:Ai:38:PHE:HD1	1.65	0.62
1:Ai:130:ILE:HD11	1:Ai:135:VAL:CG1	2.30	0.62
1:Am:230:ARG:NH2	3:Do:83:ALA:HB1	2.14	0.62
1:BD:187:LEU:CD2	1:BD:188:PRO:HD2	2.25	0.62
1:BF:74:THR:HG21	3:EB:43:PHE:CZ	2.35	0.62
1:BH:187:LEU:CD2	1:BH:188:PRO:HD2	2.25	0.62
2:C4:69:TRP:CZ3	2:C4:124:LEU:HG	2.34	0.62
2:C5:23:ILE:HD12	2:C5:23:ILE:N	2.15	0.62
2:C5:69:TRP:CZ3	2:C5:124:LEU:HG	2.35	0.62
2:C7:18:VAL:HG13	2:C7:23:ILE:HG13	1.82	0.62
2:CA:207:GLN:HE22	3:DW:192:THR:HA	1.65	0.62
2:CB:69:TRP:CZ3	2:CB:124:LEU:HG	2.34	0.62
2:CE:18:VAL:HG13	2:CE:23:ILE:HG13	1.82	0.62
2:CF:69:TRP:CZ3	2:CF:124:LEU:HG	2.34	0.62
2:CI:208:THR:O	2:CI:209:VAL:HG23	1.99	0.62
2:CK:63:THR:H	3:D _b :139:MET:HG3	1.63	0.62
2:CQ:18:VAL:HG13	2:CQ:23:ILE:HG13	1.82	0.62
2:CR:110:VAL:HG11	2:CR:213:MET:HE3	1.81	0.62
2:CU:207:GLN:HE22	3:D _g :192:THR:HA	1.65	0.62
2:CY:63:THR:H	3:DZ:139:MET:HG3	1.63	0.62
2:CZ:208:THR:O	2:CZ:209:VAL:HG23	1.99	0.62
2:Cc:23:ILE:HD12	2:Cc:23:ILE:N	2.15	0.62
2:Cd:110:VAL:HG11	2:Cd:213:MET:HE3	1.81	0.62
2:Cd:207:GLN:HE22	3:D ₄ :192:THR:HA	1.65	0.62
2:Cg:63:THR:H	3:D ₃ :139:MET:HG3	1.63	0.62
2:Ci:63:THR:H	3:D _j :139:MET:HG3	1.63	0.62
2:Ci:207:GLN:HE22	3:D _j :192:THR:HA	1.65	0.62
2:Ck:117:SER:HB3	3:Da:192:THR:HG22	1.80	0.62
2:Cl:18:VAL:HG13	2:Cl:23:ILE:HG13	1.82	0.62
2:Cn:207:GLN:HE22	3:De:192:THR:HA	1.65	0.62
2:Cr:69:TRP:CZ3	2:Cr:124:LEU:HG	2.34	0.62
2:Cs:69:TRP:CZ3	2:Cs:124:LEU:HG	2.35	0.62
2:Ct:63:THR:H	3:DH:139:MET:HG3	1.63	0.62
2:Cv:63:THR:H	3:D _d :139:MET:HG3	1.64	0.62
2:Cv:207:GLN:HE22	3:D _d :192:THR:HA	1.65	0.62
2:Cw:213:MET:CE	2:Cw:215:VAL:HG22	2.30	0.62
3:D ₄ :110:PHE:CB	3:D ₄ :148:VAL:HG11	2.29	0.62
3:DC:101:ARG:NH1	3:DC:165:ASP:HB3	2.13	0.62
3:DG:101:ARG:NH1	3:DG:165:ASP:HB3	2.13	0.62
3:DH:27:PRO:HB3	4:FH:30:TYR:HA	1.82	0.62
3:DQ:42:ASN:HD22	3:DQ:44:ILE:H	1.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Db:27:PRO:HB3	4:Fb:30:TYR:HA	1.82	0.62
3:Dd:42:ASN:HD22	3:Dd:44:ILE:H	1.46	0.62
3:Dg:42:ASN:HD22	3:Dg:44:ILE:H	1.46	0.62
3:EC:66:ASN:HB3	3:EC:191:LEU:O	1.99	0.62
1:A3:104:VAL:HG22	1:A3:197:LEU:HD23	1.80	0.62
1:A4:230:ARG:NH2	3:D5:83:ALA:HB1	2.14	0.62
1:A6:121:LEU:CD2	1:A7:207:CYS:H	2.12	0.62
1:A9:104:VAL:HG22	1:A9:197:LEU:HD23	1.80	0.62
1:A9:187:LEU:CD2	1:A9:188:PRO:HD2	2.25	0.62
1:AA:130:ILE:HD11	1:AA:135:VAL:CG1	2.30	0.62
1:AB:74:THR:HG21	3:DB:43:PHE:CZ	2.35	0.62
1:AD:88:PHE:CE1	1:AD:205:GLY:CA	2.81	0.62
1:AK:74:THR:HG21	3:DK:43:PHE:CZ	2.35	0.62
1:AK:137:GLY:HA2	1:AL:38:PHE:HD1	1.65	0.62
1:AN:137:GLY:HA2	1:AO:38:PHE:HD1	1.65	0.62
1:AU:74:THR:HG21	3:DV:43:PHE:CZ	2.35	0.62
1:AU:137:GLY:HA2	1:AV:38:PHE:HD1	1.65	0.62
1:AW:19:LEU:CD1	3:DX:160:TYR:HB3	2.30	0.62
1:AX:104:VAL:HG22	1:AX:197:LEU:HD23	1.80	0.62
1:AY:130:ILE:HD11	1:AY:135:VAL:CG1	2.30	0.62
1:AZ:130:ILE:HD11	1:AZ:135:VAL:CG1	2.30	0.62
1:Aa:19:LEU:CD1	3:Dc:160:TYR:HB3	2.29	0.62
1:Ad:104:VAL:HG22	1:Ad:197:LEU:HD23	1.80	0.62
1:Al:74:THR:HG21	3:Dn:43:PHE:CZ	2.35	0.62
1:An:74:THR:HG21	3:Db:43:PHE:CZ	2.35	0.62
1:BA:130:ILE:HD11	1:BA:135:VAL:CG1	2.30	0.62
1:BB:137:GLY:HA2	1:BC:38:PHE:HD1	1.65	0.62
1:BC:19:LEU:CD1	3:Dr:160:TYR:HB3	2.30	0.62
1:BE:164:TRP:HZ2	1:BE:187:LEU:HD21	1.58	0.62
1:BI:230:ARG:NH2	3:EE:83:ALA:HB1	2.14	0.62
2:C9:23:ILE:HD12	2:C9:23:ILE:N	2.15	0.62
2:CC:23:ILE:HD12	2:CC:23:ILE:N	2.15	0.62
2:CF:23:ILE:HD12	2:CF:23:ILE:N	2.15	0.62
2:CN:23:ILE:N	2:CN:23:ILE:HD12	2.15	0.62
2:CP:63:THR:H	3:D1:139:MET:HG3	1.63	0.62
2:CT:115:ASN:C	3:DK:119:LYS:HZ3	2.07	0.62
2:CU:23:ILE:HD12	2:CU:23:ILE:N	2.15	0.62
2:CU:69:TRP:CZ3	2:CU:124:LEU:HG	2.34	0.62
2:CU:115:ASN:C	3:Dg:119:LYS:HZ3	2.08	0.62
2:CY:15:GLU:HG3	2:CY:29:SER:CB	2.30	0.62
2:Ca:69:TRP:CZ3	2:Ca:124:LEU:HG	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ce:23:ILE:HD12	2:Ce:23:ILE:N	2.15	0.62
2:Ci:18:VAL:HG13	2:Ci:23:ILE:HG13	1.82	0.62
2:Cj:208:THR:O	2:Cj:209:VAL:HG23	1.99	0.62
2:Cl:69:TRP:CZ3	2:Cl:124:LEU:HG	2.35	0.62
2:Co:69:TRP:CZ3	2:Co:124:LEU:HG	2.35	0.62
2:Ct:207:GLN:HE22	3:DH:192:THR:HA	1.65	0.62
2:Cu:213:MET:CE	2:Cu:215:VAL:HG22	2.30	0.62
2:Cv:18:VAL:HG13	2:Cv:23:ILE:HG13	1.82	0.62
3:D8:53:PHE:CE2	3:D8:205:LEU:HB3	2.31	0.62
3:DE:66:ASN:HB3	3:DE:191:LEU:O	1.99	0.62
3:DG:160:TYR:OH	3:DG:167:MET:HG2	2.00	0.62
3:Dp:27:PRO:HB3	4:Fp:30:TYR:HA	1.82	0.62
3:Dq:66:ASN:HB3	3:Dq:191:LEU:O	1.99	0.62
1:A1:137:GLY:HA2	1:A2:38:PHE:HD1	1.65	0.61
1:A2:74:THR:HG21	3:D3:43:PHE:CZ	2.35	0.61
1:A4:19:LEU:CD1	3:D5:160:TYR:HB3	2.30	0.61
1:A7:74:THR:HG21	3:D8:43:PHE:CZ	2.35	0.61
1:A9:19:LEU:CD1	3:Da:160:TYR:HB3	2.30	0.61
1:A9:88:PHE:CE1	1:A9:205:GLY:CA	2.81	0.61
1:AA:74:THR:HG21	3:DA:43:PHE:CZ	2.35	0.61
1:AE:19:LEU:CD1	3:DE:160:TYR:HB3	2.29	0.61
1:AH:74:THR:HG21	3:DH:43:PHE:CZ	2.35	0.61
1:AI:104:VAL:HG22	1:AI:197:LEU:HD23	1.80	0.61
1:AJ:82:LEU:HD11	1:AJ:211:TYR:CD2	2.26	0.61
1:AM:74:THR:HG21	3:DM:43:PHE:CZ	2.35	0.61
1:AN:74:THR:HG21	3:DN:43:PHE:CZ	2.35	0.61
1:AO:19:LEU:HB2	2:CN:48:SER:HB2	1.82	0.61
1:AP:19:LEU:CD1	3:DP:160:TYR:HB3	2.29	0.61
1:AT:130:ILE:HD11	1:AT:135:VAL:CG1	2.30	0.61
1:AV:74:THR:HG21	3:DW:43:PHE:CZ	2.35	0.61
1:Aa:104:VAL:HG22	1:Aa:197:LEU:HD23	1.80	0.61
1:Ab:187:LEU:CD2	1:Ab:188:PRO:HD2	2.25	0.61
1:Ae:74:THR:HG21	3:Dg:43:PHE:CZ	2.35	0.61
1:Ae:137:GLY:HA2	1:Af:38:PHE:HD1	1.65	0.61
1:Ai:19:LEU:CD1	3:Dk:160:TYR:HB3	2.29	0.61
1:Ai:74:THR:HG21	3:Dk:43:PHE:CZ	2.35	0.61
1:BE:143:VAL:H	3:EB:14:PHE:HB3	1.62	0.61
2:C8:18:VAL:HG13	2:C8:23:ILE:HG13	1.82	0.61
2:C8:63:THR:H	3:D9:139:MET:HG3	1.63	0.61
2:C8:207:GLN:HE22	3:D9:192:THR:HA	1.65	0.61
2:C9:213:MET:CE	2:C9:215:VAL:HG22	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:110:VAL:HG11	2:CA:213:MET:HE3	1.81	0.61
2:CA:213:MET:CE	2:CA:215:VAL:HG22	2.30	0.61
2:CB:23:ILE:HD12	2:CB:23:ILE:N	2.15	0.61
2:CC:110:VAL:HG11	2:CC:213:MET:HE3	1.81	0.61
2:CD:15:GLU:HG3	2:CD:29:SER:CB	2.30	0.61
2:CD:18:VAL:HG13	2:CD:23:ILE:HG13	1.82	0.61
2:CI:63:THR:H	3:DX:139:MET:HG3	1.63	0.61
2:CI:207:GLN:HE22	3:DX:192:THR:HA	1.65	0.61
2:CJ:23:ILE:HD12	2:CJ:23:ILE:N	2.15	0.61
2:CK:208:THR:O	2:CK:209:VAL:HG23	1.99	0.61
2:CO:103:LEU:CD2	3:DK:163:PRO:HD3	2.30	0.61
2:CQ:110:VAL:HG11	2:CQ:213:MET:HE3	1.81	0.61
2:CW:207:GLN:HE22	3:DJ:192:THR:HA	1.65	0.61
2:CW:213:MET:CE	2:CW:215:VAL:HG22	2.30	0.61
2:CZ:18:VAL:HG13	2:CZ:23:ILE:HG13	1.82	0.61
2:Ca:207:GLN:HE22	3:DL:192:THR:HA	1.65	0.61
2:Cc:207:GLN:HE22	3:ED:192:THR:HA	1.65	0.61
2:Ch:103:LEU:CD2	3:Di:163:PRO:HD3	2.30	0.61
2:Ch:208:THR:O	2:Ch:209:VAL:HG23	1.99	0.61
2:Ci:110:VAL:HG11	2:Ci:213:MET:HE3	1.81	0.61
2:Ci:208:THR:O	2:Ci:209:VAL:HG23	1.99	0.61
2:Cl:213:MET:CE	2:Cl:215:VAL:HG22	2.30	0.61
2:Cm:18:VAL:HG13	2:Cm:23:ILE:HG13	1.82	0.61
2:Cn:213:MET:CE	2:Cn:215:VAL:HG22	2.30	0.61
2:Ct:208:THR:O	2:Ct:209:VAL:HG23	1.99	0.61
2:Cx:213:MET:CE	2:Cx:215:VAL:HG22	2.30	0.61
3:D6:42:ASN:HD22	3:D6:44:ILE:H	1.46	0.61
3:D7:160:TYR:OH	3:D7:167:MET:HG2	2.00	0.61
3:D8:27:PRO:HB3	4:F8:30:TYR:HA	1.82	0.61
3:DB:160:TYR:OH	3:DB:167:MET:HG2	2.00	0.61
3:DH:66:ASN:HB3	3:DH:191:LEU:O	1.99	0.61
3:DU:53:PHE:CE2	3:DU:205:LEU:HB3	2.31	0.61
3:DW:66:ASN:HB3	3:DW:191:LEU:O	1.99	0.61
3:Dc:160:TYR:OH	3:Dc:167:MET:HG2	2.00	0.61
3:Dg:66:ASN:HB3	3:Dg:191:LEU:O	1.99	0.61
3:EA:53:PHE:CE2	3:EA:205:LEU:HB3	2.31	0.61
3:EE:27:PRO:HB3	4:Fx:30:TYR:HA	1.82	0.61
1:A1:19:LEU:CD1	3:D2:160:TYR:HB3	2.29	0.61
1:A1:104:VAL:HG22	1:A1:197:LEU:HD23	1.80	0.61
1:A3:121:LEU:CD2	1:A4:207:CYS:H	2.12	0.61
1:A7:19:LEU:CD1	3:D8:160:TYR:HB3	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:104:VAL:HG22	1:A7:197:LEU:HD23	1.80	0.61
1:AB:230:ARG:NH2	3:DB:83:ALA:HB1	2.14	0.61
1:AC:88:PHE:CE1	1:AC:205:GLY:CA	2.81	0.61
1:AD:19:LEU:HB2	2:CC:48:SER:HB2	1.82	0.61
1:AE:19:LEU:HB2	2:CD:48:SER:HB2	1.82	0.61
1:AG:88:PHE:CE1	1:AG:205:GLY:CA	2.81	0.61
1:AI:19:LEU:CD1	3:DI:160:TYR:HB3	2.30	0.61
1:AO:74:THR:HG21	3:DO:43:PHE:CZ	2.35	0.61
1:AR:137:GLY:HA2	1:Ao:38:PHE:HD1	1.65	0.61
1:AT:207:CYS:H	1:AX:121:LEU:CD2	2.12	0.61
1:Aa:38:PHE:HD1	1:An:137:GLY:HA2	1.65	0.61
1:Aa:74:THR:HG21	3:Dc:43:PHE:CZ	2.35	0.61
1:Ac:19:LEU:CD1	3:De:160:TYR:HB3	2.29	0.61
1:Ad:74:THR:HG21	3:Df:43:PHE:CZ	2.35	0.61
1:Ai:102:VAL:HG22	1:Ai:199:SER:CB	2.31	0.61
1:BA:137:GLY:HA2	1:BB:38:PHE:HD1	1.64	0.61
1:BF:19:LEU:HB2	2:Ct:48:SER:HB2	1.82	0.61
1:BF:187:LEU:CD2	1:BF:188:PRO:HD2	2.25	0.61
1:BF:230:ARG:NH2	3:EB:83:ALA:HB1	2.14	0.61
2:C0:103:LEU:CD2	3:D1:163:PRO:HD3	2.30	0.61
2:C3:207:GLN:HE22	3:DU:192:THR:HA	1.65	0.61
2:C5:18:VAL:HG13	2:C5:23:ILE:HG13	1.82	0.61
2:C9:103:LEU:CD2	3:Da:163:PRO:HD3	2.31	0.61
2:C9:207:GLN:HE22	3:Dl:192:THR:HA	1.65	0.61
2:CG:69:TRP:CZ3	2:CG:124:LEU:HG	2.34	0.61
2:CI:23:ILE:HD12	2:CI:23:ILE:N	2.15	0.61
2:CL:103:LEU:CD2	3:DM:163:PRO:HD3	2.31	0.61
2:CL:113:GLN:HA	2:CL:169:SER:O	2.01	0.61
2:CM:110:VAL:HG11	2:CM:213:MET:HE3	1.81	0.61
2:CP:110:VAL:HG11	2:CP:213:MET:HE3	1.81	0.61
2:CQ:103:LEU:CD2	3:DR:163:PRO:HD3	2.30	0.61
2:CT:113:GLN:HA	2:CT:169:SER:O	2.00	0.61
2:CV:208:THR:O	2:CV:209:VAL:HG23	1.99	0.61
2:CY:69:TRP:CZ3	2:CY:124:LEU:HG	2.35	0.61
2:Ca:15:GLU:HG3	2:Ca:29:SER:CB	2.30	0.61
2:Ca:113:GLN:HA	2:Ca:169:SER:O	2.00	0.61
2:Ca:213:MET:CE	2:Ca:215:VAL:HG22	2.30	0.61
2:Cb:113:GLN:HA	2:Cb:169:SER:O	2.00	0.61
2:Cd:18:VAL:HG13	2:Cd:23:ILE:HG13	1.82	0.61
2:Cd:113:GLN:HA	2:Cd:169:SER:O	2.00	0.61
2:Ce:69:TRP:CZ3	2:Ce:124:LEU:HG	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cg:113:GLN:HA	2:Cg:169:SER:O	2.01	0.61
2:Ch:18:VAL:HG13	2:Ch:23:ILE:HG13	1.82	0.61
2:Cn:18:VAL:HG13	2:Cn:23:ILE:HG13	1.82	0.61
2:Cn:23:ILE:HD12	2:Cn:23:ILE:N	2.15	0.61
2:Cp:69:TRP:CZ3	2:Cp:124:LEU:HG	2.35	0.61
2:Cs:18:VAL:HG13	2:Cs:23:ILE:HG13	1.82	0.61
2:Cu:113:GLN:HA	2:Cu:169:SER:O	2.00	0.61
2:Cu:207:GLN:HE22	3:D5:192:THR:HA	1.65	0.61
2:Cw:113:GLN:HA	2:Cw:169:SER:O	2.01	0.61
2:Cw:207:GLN:HE22	3:DS:192:THR:HA	1.65	0.61
3:D1:66:ASN:HB3	3:D1:191:LEU:O	1.99	0.61
3:DI:27:PRO:HB3	4:FI:30:TYR:HA	1.82	0.61
3:DP:110:PHE:CB	3:DP:148:VAL:HG11	2.29	0.61
3:DR:27:PRO:HB3	4:FR:30:TYR:HA	1.82	0.61
3:DR:160:TYR:OH	3:DR:167:MET:HG2	2.01	0.61
3:Dk:160:TYR:OH	3:Dk:167:MET:HG2	2.01	0.61
3:Do:160:TYR:OH	3:Do:167:MET:HG2	2.00	0.61
1:A0:137:GLY:HA2	1:A1:38:PHE:HD1	1.65	0.61
1:A1:74:THR:HG21	3:D2:43:PHE:CZ	2.35	0.61
1:A2:164:TRP:HZ2	1:A2:187:LEU:HD21	1.58	0.61
1:A2:230:ARG:NH2	3:D3:83:ALA:HB1	2.14	0.61
1:A5:87:GLN:O	1:A5:88:PHE:HB3	1.98	0.61
1:AD:187:LEU:CD2	1:AD:188:PRO:HD2	2.25	0.61
1:AM:137:GLY:HA2	1:AN:38:PHE:HD1	1.65	0.61
1:AN:230:ARG:NH2	3:DN:83:ALA:HB1	2.14	0.61
1:AR:19:LEU:CD1	3:DR:160:TYR:HB3	2.30	0.61
1:AV:19:LEU:CD1	3:DW:160:TYR:HB3	2.29	0.61
1:AV:88:PHE:CE1	1:AV:205:GLY:CA	2.81	0.61
1:AV:130:ILE:HD11	1:AV:135:VAL:CG1	2.30	0.61
1:AY:230:ARG:NH2	3:DZ:83:ALA:HB1	2.14	0.61
1:BE:121:LEU:CD2	1:BF:207:CYS:H	2.12	0.61
1:BH:164:TRP:HZ2	1:BH:187:LEU:HD21	1.58	0.61
2:C6:213:MET:CE	2:C6:215:VAL:HG22	2.30	0.61
2:CB:103:LEU:CD2	3:DC:163:PRO:HD3	2.31	0.61
2:CH:69:TRP:CZ3	2:CH:124:LEU:HG	2.35	0.61
2:CP:103:LEU:CD2	3:DQ:163:PRO:HD3	2.30	0.61
2:CR:23:ILE:HD12	2:CR:23:ILE:N	2.15	0.61
2:CR:63:THR:H	3:EE:139:MET:HG3	1.63	0.61
2:CY:213:MET:CE	2:CY:215:VAL:HG22	2.30	0.61
2:Ca:103:LEU:CD2	3:Db:163:PRO:HD3	2.30	0.61
2:Ce:103:LEU:CD2	3:Df:163:PRO:HD3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cf:213:MET:CE	2:Cf:215:VAL:HG22	2.30	0.61
2:Cg:213:MET:CE	2:Cg:215:VAL:HG22	2.30	0.61
2:Ch:15:GLU:HG3	2:Ch:29:SER:CB	2.30	0.61
2:Ck:113:GLN:HA	2:Ck:169:SER:O	2.00	0.61
2:Ck:207:GLN:HE22	3:Da:192:THR:HA	1.65	0.61
2:Cm:69:TRP:CZ3	2:Cm:124:LEU:HG	2.35	0.61
2:Cm:103:LEU:CD2	3:Dn:163:PRO:HD3	2.31	0.61
2:Co:18:VAL:HG13	2:Co:23:ILE:HG13	1.82	0.61
2:Cp:103:LEU:CD2	3:Dq:163:PRO:HD3	2.30	0.61
2:Cq:208:THR:O	2:Cq:209:VAL:HG23	1.99	0.61
2:Cr:213:MET:CE	2:Cr:215:VAL:HG22	2.30	0.61
2:Cv:110:VAL:HG11	2:Cv:213:MET:HE3	1.81	0.61
3:D6:160:TYR:OH	3:D6:167:MET:HG2	2.01	0.61
3:DA:42:ASN:HD22	3:DA:44:ILE:H	1.46	0.61
3:DA:160:TYR:OH	3:DA:167:MET:HG2	2.01	0.61
3:DJ:160:TYR:OH	3:DJ:167:MET:HG2	2.01	0.61
3:DO:27:PRO:HB3	4:FO:30:TYR:HA	1.82	0.61
3:DT:160:TYR:OH	3:DT:167:MET:HG2	2.01	0.61
3:Dg:160:TYR:OH	3:Dg:167:MET:HG2	2.01	0.61
3:Dr:27:PRO:HB3	4:Fr:30:TYR:HA	1.82	0.61
3:EA:160:TYR:OH	3:EA:167:MET:HG2	2.01	0.61
1:A5:137:GLY:HA2	1:A6:38:PHE:HD1	1.65	0.61
1:AB:130:ILE:HD11	1:AB:135:VAL:CG1	2.30	0.61
1:AC:19:LEU:HB2	2:CB:48:SER:HB2	1.82	0.61
1:AH:19:LEU:CD1	3:DH:160:TYR:HB3	2.29	0.61
1:AH:137:GLY:HA2	1:AI:38:PHE:HD1	1.65	0.61
1:AL:137:GLY:HA2	1:AM:38:PHE:HD1	1.65	0.61
1:AO:130:ILE:HD11	1:AO:135:VAL:CG1	2.30	0.61
1:AR:74:THR:HG21	3:DR:43:PHE:CZ	2.35	0.61
1:AY:19:LEU:HB2	2:C3:48:SER:HB2	1.82	0.61
1:Ac:74:THR:HG21	3:De:43:PHE:CZ	2.35	0.61
1:Ac:130:ILE:HD11	1:Ac:135:VAL:CG1	2.30	0.61
1:An:130:ILE:HD11	1:An:135:VAL:CG1	2.30	0.61
1:BB:19:LEU:CD1	3:Dq:160:TYR:HB3	2.29	0.61
1:BG:19:LEU:CD1	3:EC:160:TYR:HB3	2.30	0.61
2:C2:15:GLU:HG3	2:C2:29:SER:CB	2.30	0.61
2:C2:23:ILE:HD12	2:C2:23:ILE:N	2.15	0.61
2:C5:213:MET:CE	2:C5:215:VAL:HG22	2.30	0.61
2:C7:103:LEU:CD2	3:D8:163:PRO:HD3	2.31	0.61
2:CE:103:LEU:CD2	3:DA:163:PRO:HD3	2.30	0.61
2:CF:18:VAL:HG13	2:CF:23:ILE:HG13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:113:GLN:HA	2:CF:169:SER:O	2.01	0.61
2:CH:113:GLN:HA	2:CH:169:SER:O	2.01	0.61
2:CK:103:LEU:CD2	3:DL:163:PRO:HD3	2.30	0.61
2:CN:69:TRP:CZ3	2:CN:124:LEU:HG	2.35	0.61
2:CN:113:GLN:HA	2:CN:169:SER:O	2.01	0.61
2:CN:213:MET:CE	2:CN:215:VAL:HG22	2.30	0.61
2:CP:113:GLN:HA	2:CP:169:SER:O	2.00	0.61
2:CP:213:MET:CE	2:CP:215:VAL:HG22	2.30	0.61
2:CQ:54:LEU:HD12	2:CQ:220:ALA:CB	2.31	0.61
2:CQ:113:GLN:HA	2:CQ:169:SER:O	2.01	0.61
2:CS:18:VAL:HG13	2:CS:23:ILE:HG13	1.82	0.61
2:CS:103:LEU:CD2	3:DT:163:PRO:HD3	2.30	0.61
2:CV:213:MET:CE	2:CV:215:VAL:HG22	2.30	0.61
2:CZ:23:ILE:HD12	2:CZ:23:ILE:N	2.15	0.61
2:Ca:18:VAL:HG13	2:Ca:23:ILE:HG13	1.82	0.61
2:Cc:15:GLU:HG3	2:Cc:29:SER:CB	2.30	0.61
2:Ce:110:VAL:HG11	2:Ce:213:MET:HE3	1.81	0.61
2:Cj:18:VAL:HG13	2:Cj:23:ILE:HG13	1.82	0.61
2:Cn:113:GLN:HA	2:Cn:169:SER:O	2.01	0.61
2:Cp:23:ILE:HD12	2:Cp:23:ILE:N	2.15	0.61
2:Ct:18:VAL:HG13	2:Ct:23:ILE:HG13	1.82	0.61
2:Cv:103:LEU:CD2	3:ED:163:PRO:HD3	2.31	0.61
3:D1:27:PRO:HB3	4:F1:30:TYR:HA	1.82	0.61
3:DC:27:PRO:HB3	4:FC:30:TYR:HA	1.82	0.61
3:DC:160:TYR:OH	3:DC:167:MET:HG2	2.01	0.61
3:DE:160:TYR:OH	3:DE:167:MET:HG2	2.01	0.61
3:Dg:27:PRO:HB3	4:Fg:30:TYR:HA	1.82	0.61
3:Dm:160:TYR:OH	3:Dm:167:MET:HG2	2.00	0.61
3:Ds:160:TYR:OH	3:Ds:167:MET:HG2	2.01	0.61
1:A8:74:THR:HG21	3:D9:43:PHE:CZ	2.35	0.61
1:AE:74:THR:HG21	3:DE:43:PHE:CZ	2.35	0.61
1:AJ:88:PHE:CE1	1:AJ:205:GLY:CA	2.81	0.61
1:AT:19:LEU:HB2	2:CY:48:SER:HB2	1.82	0.61
1:AX:19:LEU:HB2	2:CX:48:SER:HB2	1.82	0.61
1:Ag:102:VAL:HG22	1:Ag:199:SER:CB	2.31	0.61
1:Aj:74:THR:HG21	3:DI:43:PHE:CZ	2.35	0.61
1:Am:137:GLY:HA2	1:BA:38:PHE:HD1	1.65	0.61
1:BC:88:PHE:CE1	1:BC:205:GLY:CA	2.81	0.61
1:BH:74:THR:HG21	3:ED:43:PHE:CZ	2.35	0.61
1:BH:137:GLY:HA2	1:BI:38:PHE:HD1	1.65	0.61
1:BI:19:LEU:CD1	3:EE:160:TYR:HB3	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:207:GLN:HE22	3:DQ:192:THR:HA	1.65	0.61
2:C2:110:VAL:HG11	2:C2:213:MET:HE3	1.81	0.61
2:C2:207:GLN:HE22	3:Dh:192:THR:HA	1.65	0.61
2:C4:110:VAL:HG11	2:C4:213:MET:HE3	1.81	0.61
2:C5:103:LEU:CD2	3:D6:163:PRO:HD3	2.31	0.61
2:C5:110:VAL:HG11	2:C5:213:MET:HE3	1.81	0.61
2:C6:23:ILE:HD12	2:C6:23:ILE:N	2.15	0.61
2:C7:69:TRP:CZ3	2:C7:124:LEU:HG	2.34	0.61
2:CC:207:GLN:HE22	3:Dn:192:THR:HA	1.65	0.61
2:CE:15:GLU:HG3	2:CE:29:SER:CB	2.30	0.61
2:CE:23:ILE:HD12	2:CE:23:ILE:N	2.15	0.61
2:CJ:213:MET:CE	2:CJ:215:VAL:HG22	2.30	0.61
2:CK:18:VAL:HG13	2:CK:23:ILE:HG13	1.82	0.61
2:CL:207:GLN:HE22	3:Dk:192:THR:HA	1.65	0.61
2:CN:115:ASN:C	3:D2:119:LYS:HZ3	2.07	0.61
2:CO:18:VAL:HG13	2:CO:23:ILE:HG13	1.82	0.61
2:CP:23:ILE:HD12	2:CP:23:ILE:N	2.15	0.61
2:CX:213:MET:CE	2:CX:215:VAL:HG22	2.30	0.61
2:Cb:15:GLU:HG3	2:Cb:29:SER:CB	2.30	0.61
2:Ce:213:MET:CE	2:Ce:215:VAL:HG22	2.30	0.61
2:Ch:207:GLN:HE22	3:DN:192:THR:HA	1.65	0.61
2:Ci:113:GLN:HA	2:Ci:169:SER:O	2.00	0.61
2:Cl:103:LEU:CD2	3:Dm:163:PRO:HD3	2.30	0.61
2:Cq:113:GLN:HA	2:Cq:169:SER:O	2.01	0.61
2:Cr:23:ILE:HD12	2:Cr:23:ILE:N	2.15	0.61
2:Ct:213:MET:CE	2:Ct:215:VAL:HG22	2.30	0.61
2:Cv:208:THR:O	2:Cv:209:VAL:HG23	1.99	0.61
2:Cx:23:ILE:HD12	2:Cx:23:ILE:N	2.15	0.61
3:D1:42:ASN:HD22	3:D1:44:ILE:HG22	1.65	0.61
3:D2:42:ASN:HD22	3:D2:44:ILE:H	1.46	0.61
3:D4:42:ASN:HD22	3:D4:44:ILE:H	1.46	0.61
3:D9:160:TYR:OH	3:D9:167:MET:HG2	2.01	0.61
3:DA:27:PRO:HB3	4:FA:30:TYR:HA	1.82	0.61
3:DM:160:TYR:OH	3:DM:167:MET:HG2	2.01	0.61
3:DT:27:PRO:HB3	4:FT:30:TYR:HA	1.82	0.61
3:Db:160:TYR:OH	3:Db:167:MET:HG2	2.01	0.61
3:Dh:27:PRO:HB3	4:Fh:30:TYR:HA	1.82	0.61
3:Dm:42:ASN:HD22	3:Dm:44:ILE:H	1.46	0.61
3:Ds:42:ASN:HD22	3:Ds:44:ILE:HG22	1.65	0.61
3:EA:27:PRO:HB3	4:Ft:30:TYR:HA	1.82	0.61
3:EC:160:TYR:OH	3:EC:167:MET:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FA:25:PHE:HD2	4:FA:26:TYR:CE1	2.19	0.61
1:A3:19:LEU:CD1	3:D4:160:TYR:HB3	2.30	0.61
1:A5:19:LEU:HB2	2:C5:48:SER:HB2	1.82	0.61
1:A6:74:THR:HG21	3:D7:43:PHE:CZ	2.35	0.61
1:A9:102:VAL:HG22	1:A9:199:SER:CB	2.31	0.61
1:AA:121:LEU:CD2	1:AB:207:CYS:H	2.12	0.61
1:AG:102:VAL:HG22	1:AG:199:SER:CB	2.31	0.61
1:AM:164:TRP:HZ2	1:AM:187:LEU:HD21	1.58	0.61
1:AX:74:THR:HG21	3:DY:43:PHE:CZ	2.35	0.61
1:AY:137:GLY:HA2	1:AZ:38:PHE:HD1	1.65	0.61
1:Af:19:LEU:HB2	2:Cg:48:SER:HB2	1.83	0.61
1:Ah:38:PHE:HD1	1:Al:137:GLY:HA2	1.65	0.61
1:Am:19:LEU:HB2	2:Cs:48:SER:HB2	1.82	0.61
1:BA:19:LEU:HB2	2:Co:48:SER:HB2	1.82	0.61
2:C0:18:VAL:HG13	2:C0:23:ILE:HG13	1.82	0.61
2:C0:54:LEU:HD12	2:C0:220:ALA:CB	2.31	0.61
2:C1:110:VAL:HG11	2:C1:213:MET:HE3	1.81	0.61
2:C3:18:VAL:HG13	2:C3:23:ILE:HG13	1.82	0.61
2:C4:207:GLN:HE22	3:EC:192:THR:HA	1.65	0.61
2:C8:54:LEU:HD12	2:C8:220:ALA:CB	2.31	0.61
2:C8:110:VAL:HG11	2:C8:213:MET:HE3	1.81	0.61
2:CC:54:LEU:HD12	2:CC:220:ALA:CB	2.31	0.61
2:CE:54:LEU:HD12	2:CE:220:ALA:CB	2.31	0.61
2:CG:23:ILE:HD12	2:CG:23:ILE:N	2.15	0.61
2:CG:110:VAL:HG11	2:CG:213:MET:HE3	1.81	0.61
2:CI:103:LEU:CD2	3:DJ:163:PRO:HD3	2.31	0.61
2:CK:54:LEU:HD12	2:CK:220:ALA:CB	2.31	0.61
2:CO:54:LEU:HD12	2:CO:220:ALA:CB	2.31	0.61
2:CO:213:MET:CE	2:CO:215:VAL:HG22	2.30	0.61
2:CY:207:GLN:HE22	3:DZ:192:THR:HA	1.65	0.61
2:Cb:54:LEU:HD12	2:Cb:220:ALA:CB	2.31	0.61
2:Ce:54:LEU:HD12	2:Ce:220:ALA:CB	2.31	0.61
2:Cf:23:ILE:HD12	2:Cf:23:ILE:N	2.15	0.61
2:Cl:113:GLN:HA	2:Cl:169:SER:O	2.01	0.61
2:Cm:15:GLU:HG3	2:Cm:29:SER:CB	2.30	0.61
2:Cm:54:LEU:HD12	2:Cm:220:ALA:CB	2.31	0.61
2:Co:15:GLU:HG3	2:Co:29:SER:CB	2.30	0.61
2:Cp:113:GLN:HA	2:Cp:169:SER:O	2.00	0.61
2:Cq:103:LEU:CD2	3:Dr:163:PRO:HD3	2.30	0.61
2:Cs:110:VAL:HG11	2:Cs:213:MET:HE3	1.81	0.61
2:Ct:15:GLU:HG3	2:Ct:29:SER:CB	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cx:103:LEU:CD2	3:EA:163:PRO:HD3	2.31	0.61
3:DG:27:PRO:HB3	4:FG:30:TYR:HA	1.82	0.61
3:DP:160:TYR:OH	3:DP:167:MET:HG2	2.01	0.61
3:DW:27:PRO:HB3	4:FW:30:TYR:HA	1.82	0.61
3:Dd:160:TYR:OH	3:Dd:167:MET:HG2	2.01	0.61
3:Dm:27:PRO:HB3	4:Fm:30:TYR:HA	1.81	0.61
3:EB:160:TYR:OH	3:EB:167:MET:HG2	2.01	0.61
4:FD:25:PHE:HD2	4:FD:26:TYR:CE1	2.19	0.61
4:FV:25:PHE:HD2	4:FV:26:TYR:CE1	2.19	0.61
4:Fh:25:PHE:HD2	4:Fh:26:TYR:CE1	2.19	0.61
4:Fr:25:PHE:HD2	4:Fr:26:TYR:CE1	2.19	0.61
4:Fv:25:PHE:HD2	4:Fv:26:TYR:CE1	2.19	0.61
1:A4:19:LEU:HB2	2:C4:48:SER:HB2	1.82	0.61
1:A9:130:ILE:HD11	1:A9:135:VAL:CG1	2.30	0.61
1:AF:130:ILE:HD11	1:AF:135:VAL:CG1	2.30	0.61
1:AM:102:VAL:HG22	1:AM:199:SER:CB	2.31	0.61
1:AS:74:THR:HG21	3:DT:43:PHE:CZ	2.35	0.61
1:AT:74:THR:HG21	3:DU:43:PHE:CZ	2.35	0.61
1:AV:137:GLY:HA2	1:AW:38:PHE:HD1	1.65	0.61
1:Ac:88:PHE:CE1	1:Ac:205:GLY:CA	2.81	0.61
1:Ad:137:GLY:HA2	1:Ae:38:PHE:HD1	1.65	0.61
1:Ai:121:LEU:CD2	1:Aj:207:CYS:H	2.12	0.61
1:An:19:LEU:CD1	3:Db:160:TYR:HB3	2.29	0.61
1:BG:74:THR:HG21	3:EC:43:PHE:CZ	2.35	0.61
1:BI:74:THR:HG21	3:EE:43:PHE:CZ	2.35	0.61
2:C3:54:LEU:HD12	2:C3:220:ALA:CB	2.31	0.61
2:C5:207:GLN:HE22	3:DG:192:THR:HA	1.65	0.61
2:C6:113:GLN:HA	2:C6:169:SER:O	2.01	0.61
2:C9:18:VAL:HG13	2:C9:23:ILE:HG13	1.82	0.61
2:CC:113:GLN:HA	2:CC:169:SER:O	2.01	0.61
2:CF:110:VAL:HG11	2:CF:213:MET:HE3	1.81	0.61
2:CG:103:LEU:CD2	3:DH:163:PRO:HD3	2.31	0.61
2:CH:103:LEU:CD2	3:DI:163:PRO:HD3	2.31	0.61
2:CL:18:VAL:HG13	2:CL:23:ILE:HG13	1.82	0.61
2:CL:54:LEU:HD12	2:CL:220:ALA:CB	2.31	0.61
2:CN:15:GLU:HG3	2:CN:29:SER:CB	2.30	0.61
2:CO:15:GLU:HG3	2:CO:29:SER:CB	2.30	0.61
2:CP:15:GLU:HG3	2:CP:29:SER:CB	2.30	0.61
2:CR:15:GLU:HG3	2:CR:29:SER:CB	2.30	0.61
2:CX:15:GLU:HG3	2:CX:29:SER:CB	2.30	0.61
2:Ca:110:VAL:HG11	2:Ca:213:MET:HE3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ce:207:GLN:HE22	3:DC:192:THR:HA	1.65	0.61
2:Ch:110:VAL:HG11	2:Ch:213:MET:HE3	1.81	0.61
2:Ch:213:MET:CE	2:Ch:215:VAL:HG22	2.30	0.61
2:Ci:103:LEU:CD2	3:De:163:PRO:HD3	2.30	0.61
2:Cj:103:LEU:CD2	3:Dk:163:PRO:HD3	2.30	0.61
2:Cl:54:LEU:HD12	2:Cl:220:ALA:CB	2.31	0.61
2:Cr:110:VAL:HG11	2:Cr:213:MET:HE3	1.81	0.61
2:Ct:103:LEU:CD2	3:EB:163:PRO:HD3	2.30	0.61
2:Cx:54:LEU:HD12	2:Cx:220:ALA:CB	2.31	0.61
3:D2:42:ASN:HD22	3:D2:44:ILE:HG22	1.65	0.61
3:D5:160:TYR:OH	3:D5:167:MET:HG2	2.01	0.61
3:D9:27:PRO:HB3	4:F9:30:TYR:HA	1.82	0.61
3:DK:42:ASN:HD22	3:DK:44:ILE:H	1.46	0.61
3:DN:53:PHE:CE2	3:DN:205:LEU:HB3	2.31	0.61
3:DS:160:TYR:OH	3:DS:167:MET:HG2	2.01	0.61
3:Dk:27:PRO:HB3	4:Fk:30:TYR:HA	1.82	0.61
4:F3:25:PHE:HD2	4:F3:26:TYR:CE1	2.19	0.61
4:F4:25:PHE:HD2	4:F4:26:TYR:CE1	2.19	0.61
4:FY:25:PHE:HD2	4:FY:26:TYR:CE1	2.19	0.61
1:A1:19:LEU:HB2	2:C1:48:SER:HB2	1.82	0.61
1:A3:74:THR:HG21	3:D4:43:PHE:CZ	2.35	0.61
1:A3:207:CYS:H	1:A7:121:LEU:CD2	2.12	0.61
1:A4:137:GLY:HA2	1:A5:38:PHE:HD1	1.65	0.61
1:A5:74:THR:HG21	3:D6:43:PHE:CZ	2.35	0.61
1:A9:137:GLY:HA2	1:An:38:PHE:HD1	1.65	0.61
1:AF:137:GLY:HA2	1:AG:38:PHE:HD1	1.65	0.61
1:AG:130:ILE:HD11	1:AG:135:VAL:CG1	2.30	0.61
1:AH:19:LEU:HB2	2:CG:48:SER:HB2	1.82	0.61
1:AH:209:LEU:O	1:AH:210:ARG:HG2	2.01	0.61
1:AM:19:LEU:CD1	3:DM:160:TYR:HB3	2.29	0.61
1:AR:130:ILE:HD11	1:AR:135:VAL:CG1	2.30	0.61
1:AV:19:LEU:HB2	2:CV:48:SER:HB2	1.83	0.61
1:AY:19:LEU:CD1	3:DZ:160:TYR:HB3	2.29	0.61
1:AZ:209:LEU:O	1:AZ:210:ARG:HG2	2.01	0.61
1:Aa:88:PHE:CE1	1:Aa:205:GLY:CA	2.81	0.61
1:Ac:19:LEU:HB2	2:Ci:48:SER:HB2	1.82	0.61
1:Af:137:GLY:HA2	1:Ag:38:PHE:HD1	1.65	0.61
1:Ah:102:VAL:HG22	1:Ah:199:SER:CB	2.31	0.61
1:Am:74:THR:HG21	3:Do:43:PHE:CZ	2.35	0.61
1:An:102:VAL:HG22	1:An:199:SER:CB	2.31	0.61
1:BA:88:PHE:CE1	1:BA:205:GLY:CA	2.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:19:LEU:HB2	2:Cp:48:SER:HB2	1.83	0.61
1:BC:187:LEU:CD2	1:BC:188:PRO:HD2	2.25	0.61
1:BF:130:ILE:HD11	1:BF:135:VAL:CG1	2.30	0.61
1:BH:130:ILE:HD11	1:BH:135:VAL:CG1	2.30	0.61
1:BI:19:LEU:HB2	2:Cw:48:SER:HB2	1.83	0.61
2:C5:15:GLU:HG3	2:C5:29:SER:CB	2.30	0.61
2:C9:113:GLN:HA	2:C9:169:SER:O	2.01	0.61
2:CA:23:ILE:HD12	2:CA:23:ILE:N	2.15	0.61
2:CA:113:GLN:HA	2:CA:169:SER:O	2.01	0.61
2:CI:113:GLN:HA	2:CI:169:SER:O	2.01	0.61
2:CI:213:MET:CE	2:CI:215:VAL:HG22	2.30	0.61
2:CK:207:GLN:HE22	3:Db:192:THR:HA	1.65	0.61
2:CS:207:GLN:HE22	3:Dc:192:THR:HA	1.65	0.61
2:CU:103:LEU:CD2	3:DV:163:PRO:HD3	2.31	0.61
2:Ca:54:LEU:HD12	2:Ca:220:ALA:CB	2.31	0.61
2:Cb:110:VAL:HG11	2:Cb:213:MET:HE3	1.81	0.61
2:Cd:54:LEU:HD12	2:Cd:220:ALA:CB	2.31	0.61
2:Ce:15:GLU:HG3	2:Ce:29:SER:CB	2.30	0.61
2:Ce:18:VAL:HG13	2:Ce:23:ILE:HG13	1.82	0.61
2:Cf:54:LEU:HD12	2:Cf:220:ALA:CB	2.31	0.61
2:Cf:110:VAL:HG12	2:Cf:215:VAL:HA	1.83	0.61
2:Cj:113:GLN:HA	2:Cj:169:SER:O	2.01	0.61
2:Cj:207:GLN:HE22	3:DM:192:THR:HA	1.65	0.61
2:Ck:103:LEU:CD2	3:DI:163:PRO:HD3	2.30	0.61
2:Cm:113:GLN:HA	2:Cm:169:SER:O	2.01	0.61
2:Cm:207:GLN:HE22	3:DD:192:THR:HA	1.65	0.61
2:Cn:15:GLU:HG3	2:Cn:29:SER:CB	2.30	0.61
2:Co:23:ILE:N	2:Co:23:ILE:HD12	2.15	0.61
2:Cr:54:LEU:HD12	2:Cr:220:ALA:CB	2.31	0.61
2:Cr:103:LEU:CD2	3:Ds:163:PRO:HD3	2.31	0.61
3:D3:27:PRO:HB3	4:F3:30:TYR:HA	1.82	0.61
3:D3:66:ASN:HB3	3:D3:191:LEU:O	1.99	0.61
3:D6:27:PRO:HB3	4:F6:30:TYR:HA	1.82	0.61
3:DD:27:PRO:HB3	4:FD:30:TYR:HA	1.82	0.61
3:DL:160:TYR:OH	3:DL:167:MET:HG2	2.01	0.61
3:DQ:53:PHE:CE2	3:DQ:205:LEU:HB3	2.31	0.61
3:DR:42:ASN:HD22	3:DR:44:ILE:H	1.46	0.61
3:DY:53:PHE:CE2	3:DY:205:LEU:HB3	2.31	0.61
3:Da:42:ASN:HD22	3:Da:44:ILE:H	1.46	0.61
3:Do:27:PRO:HB3	4:Fo:30:TYR:HA	1.82	0.61
3:Dp:160:TYR:OH	3:Dp:167:MET:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FM:25:PHE:HD2	4:FM:26:TYR:CE1	2.19	0.61
4:FO:25:PHE:HD2	4:FO:26:TYR:CE1	2.19	0.61
1:A5:121:LEU:CD2	1:A6:207:CYS:H	2.12	0.61
1:A9:19:LEU:HB2	2:C9:48:SER:HB2	1.82	0.61
1:AK:19:LEU:CD1	3:DK:160:TYR:HB3	2.29	0.61
1:AL:130:ILE:HD11	1:AL:135:VAL:CG1	2.30	0.61
1:AP:19:LEU:HB2	2:CT:48:SER:HB2	1.83	0.61
1:AQ:19:LEU:HB2	2:CP:48:SER:HB2	1.83	0.61
1:AU:19:LEU:HB2	2:CU:48:SER:HB2	1.82	0.61
1:AV:187:LEU:CD2	1:AV:188:PRO:HD2	2.25	0.61
1:Ac:38:PHE:HD1	1:Ag:137:GLY:HA2	1.64	0.61
1:Ac:209:LEU:O	1:Ac:210:ARG:HG2	2.01	0.61
1:Ae:130:ILE:HD11	1:Ae:135:VAL:CG1	2.30	0.61
1:Ae:187:LEU:CD2	1:Ae:188:PRO:HD2	2.25	0.61
1:Ae:209:LEU:O	1:Ae:210:ARG:HG2	2.01	0.61
1:Af:74:THR:HG21	3:Dh:43:PHE:CZ	2.35	0.61
1:Ah:88:PHE:CE1	1:Ah:205:GLY:CA	2.81	0.61
1:Ai:209:LEU:O	1:Ai:210:ARG:HG2	2.01	0.61
1:Al:19:LEU:CD1	3:Dn:160:TYR:HB3	2.29	0.61
1:Al:130:ILE:HD11	1:Al:135:VAL:CG1	2.30	0.61
1:BB:102:VAL:HG22	1:BB:199:SER:CB	2.31	0.61
1:BC:130:ILE:HD11	1:BC:135:VAL:CG1	2.30	0.61
1:BE:74:THR:HG21	3:EA:43:PHE:CZ	2.35	0.61
1:BH:88:PHE:CE1	1:BH:205:GLY:CA	2.81	0.61
1:BI:130:ILE:HD11	1:BI:135:VAL:CG1	2.30	0.61
2:C2:113:GLN:HA	2:C2:169:SER:O	2.01	0.61
2:C4:103:LEU:CD2	3:D5:163:PRO:HD3	2.30	0.61
2:C5:54:LEU:HD12	2:C5:220:ALA:CB	2.31	0.61
2:C9:54:LEU:HD12	2:C9:220:ALA:CB	2.31	0.61
2:CB:207:GLN:HE22	3:Df:192:THR:HA	1.65	0.61
2:CB:213:MET:CE	2:CB:215:VAL:HG22	2.30	0.61
2:CD:113:GLN:HA	2:CD:169:SER:O	2.01	0.61
2:CJ:54:LEU:HD12	2:CJ:220:ALA:CB	2.31	0.61
2:CL:110:VAL:HG12	2:CL:215:VAL:HA	1.83	0.61
2:CM:113:GLN:HA	2:CM:169:SER:O	2.01	0.61
2:CO:113:GLN:HA	2:CO:169:SER:O	2.01	0.61
2:CQ:213:MET:CE	2:CQ:215:VAL:HG22	2.30	0.61
2:CS:23:ILE:HD12	2:CS:23:ILE:N	2.15	0.61
2:CS:213:MET:CE	2:CS:215:VAL:HG22	2.30	0.61
2:CT:54:LEU:HD12	2:CT:220:ALA:CB	2.31	0.61
2:CU:208:THR:O	2:CU:209:VAL:HG23	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:103:LEU:CD2	3:DX:163:PRO:HD3	2.30	0.61
2:CX:54:LEU:HD12	2:CX:220:ALA:CB	2.31	0.61
2:CZ:113:GLN:HA	2:CZ:169:SER:O	2.01	0.61
2:Ca:208:THR:O	2:Ca:209:VAL:HG23	1.99	0.61
2:Ce:113:GLN:HA	2:Ce:169:SER:O	2.01	0.61
2:Cf:103:LEU:CD2	3:Dg:163:PRO:HD3	2.30	0.61
2:Cj:54:LEU:HD12	2:Cj:220:ALA:CB	2.31	0.61
2:Cj:110:VAL:HG12	2:Cj:215:VAL:HA	1.83	0.61
2:Ck:54:LEU:HD12	2:Ck:220:ALA:CB	2.31	0.61
2:Cq:54:LEU:HD12	2:Cq:220:ALA:CB	2.31	0.61
2:Cq:110:VAL:HG11	2:Cq:213:MET:HE3	1.81	0.61
3:D3:42:ASN:HD22	3:D3:44:ILE:H	1.46	0.61
3:D8:160:TYR:OH	3:D8:167:MET:HG2	2.00	0.61
3:DC:53:PHE:CE2	3:DC:205:LEU:HB3	2.31	0.61
3:DO:160:TYR:OH	3:DO:167:MET:HG2	2.01	0.61
3:DU:42:ASN:HD22	3:DU:44:ILE:HG22	1.65	0.61
3:DX:160:TYR:OH	3:DX:167:MET:HG2	2.01	0.61
3:DZ:160:TYR:OH	3:DZ:167:MET:HG2	2.00	0.61
3:Dd:27:PRO:HB3	4:Fd:30:TYR:HA	1.82	0.61
3:De:160:TYR:OH	3:De:167:MET:HG2	2.01	0.61
3:Dn:42:ASN:HD22	3:Dn:44:ILE:HG22	1.65	0.61
3:Dn:160:TYR:OH	3:Dn:167:MET:HG2	2.00	0.61
4:F1:25:PHE:HD2	4:F1:26:TYR:CE1	2.19	0.61
4:FH:25:PHE:HD2	4:FH:26:TYR:CE1	2.19	0.61
4:Fa:25:PHE:HD2	4:Fa:26:TYR:CE1	2.19	0.61
1:AC:74:THR:HG21	3:DC:43:PHE:CZ	2.35	0.61
1:AG:74:THR:HG21	3:DG:43:PHE:CZ	2.35	0.61
1:AG:137:GLY:HA2	1:AH:38:PHE:HD1	1.65	0.61
1:AI:19:LEU:HB2	2:CH:48:SER:HB2	1.82	0.61
1:AK:130:ILE:HD11	1:AK:135:VAL:CG1	2.30	0.61
1:Aa:164:TRP:HZ2	1:Aa:187:LEU:HD21	1.58	0.61
1:An:209:LEU:O	1:An:210:ARG:HG2	2.01	0.61
1:BH:209:LEU:O	1:BH:210:ARG:HG2	2.01	0.61
1:BI:88:PHE:CE1	1:BI:205:GLY:CA	2.81	0.61
2:C1:207:GLN:HE22	3:DO:192:THR:HA	1.65	0.61
2:C1:213:MET:CE	2:C1:215:VAL:HG22	2.30	0.61
2:C6:54:LEU:HD12	2:C6:220:ALA:CB	2.31	0.61
2:C7:54:LEU:HD12	2:C7:220:ALA:CB	2.31	0.61
2:CD:23:ILE:HD12	2:CD:23:ILE:N	2.15	0.61
2:CD:103:LEU:CD2	3:DE:163:PRO:HD3	2.31	0.61
2:CE:110:VAL:HG11	2:CE:213:MET:HE3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:54:LEU:HD12	2:CH:220:ALA:CB	2.31	0.61
2:CH:213:MET:CE	2:CH:215:VAL:HG22	2.30	0.61
2:CJ:110:VAL:HG11	2:CJ:213:MET:HE3	1.81	0.61
2:CJ:115:ASN:CA	3:DA:119:LYS:HD2	2.31	0.61
2:CM:103:LEU:CD2	3:DN:163:PRO:HD3	2.30	0.61
2:CT:15:GLU:HG3	2:CT:29:SER:CB	2.30	0.61
2:CT:103:LEU:CD2	3:DP:163:PRO:HD3	2.30	0.61
2:CU:15:GLU:HG3	2:CU:29:SER:CB	2.30	0.61
2:CU:115:ASN:CA	3:Dg:119:LYS:HD2	2.31	0.61
2:CW:113:GLN:HA	2:CW:169:SER:O	2.01	0.61
2:CY:113:GLN:HA	2:CY:169:SER:O	2.00	0.61
2:CZ:103:LEU:CD2	3:D0:163:PRO:HD3	2.31	0.61
2:CZ:110:VAL:HG12	2:CZ:215:VAL:HA	1.83	0.61
2:Cc:54:LEU:HD12	2:Cc:220:ALA:CB	2.31	0.61
2:Cg:54:LEU:HD12	2:Cg:220:ALA:CB	2.31	0.61
2:Cg:115:ASN:ND2	3:D3:190:ALA:C	2.59	0.61
2:Ch:113:GLN:HA	2:Ch:169:SER:O	2.01	0.61
2:Cm:110:VAL:HG12	2:Cm:215:VAL:HA	1.83	0.61
2:Cn:103:LEU:CD2	3:Dj:163:PRO:HD3	2.30	0.61
2:Ct:110:VAL:HG12	2:Ct:215:VAL:HA	1.83	0.61
3:DL:27:PRO:HB3	4:FL:30:TYR:HA	1.82	0.61
3:DQ:27:PRO:HB3	4:FQ:30:TYR:HA	1.82	0.61
3:Dc:53:PHE:CE2	3:Dc:205:LEU:HB3	2.31	0.61
4:FF:25:PHE:HD2	4:FF:26:TYR:CE1	2.19	0.61
4:FQ:25:PHE:HD2	4:FQ:26:TYR:CE1	2.19	0.61
4:Fc:25:PHE:HD2	4:Fc:26:TYR:CE1	2.19	0.61
1:A9:209:LEU:O	1:A9:210:ARG:HG2	2.01	0.60
1:AC:224:ILE:HG13	3:DC:89:TYR:CE1	2.37	0.60
1:AG:19:LEU:HB2	2:CF:48:SER:HB2	1.83	0.60
1:AK:102:VAL:HG22	1:AK:199:SER:CB	2.31	0.60
1:AS:224:ILE:HG13	3:DT:89:TYR:CE1	2.37	0.60
1:AX:102:VAL:HG22	1:AX:199:SER:CB	2.31	0.60
1:AY:209:LEU:O	1:AY:210:ARG:HG2	2.01	0.60
1:Aa:19:LEU:HB2	2:Cb:48:SER:HB2	1.82	0.60
1:Ae:19:LEU:HB2	2:Cf:48:SER:HB2	1.82	0.60
1:Ag:209:LEU:O	1:Ag:210:ARG:HG2	2.01	0.60
1:Ah:19:LEU:HB2	2:Cn:48:SER:HB2	1.82	0.60
1:Aj:137:GLY:HA2	1:Ak:38:PHE:HD1	1.65	0.60
1:Ak:224:ILE:HG13	3:Dm:89:TYR:CE1	2.37	0.60
1:Al:209:LEU:O	1:Al:210:ARG:HG2	2.01	0.60
1:Am:207:CYS:H	1:BD:121:LEU:CD2	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:5:GLY:O	1:BA:6:GLU:HB3	2.01	0.60
1:BC:5:GLY:O	1:BC:6:GLU:HB3	2.01	0.60
1:BE:102:VAL:HG22	1:BE:199:SER:CB	2.31	0.60
1:BF:121:LEU:CD2	1:BG:207:CYS:H	2.12	0.60
1:BH:102:VAL:HG22	1:BH:199:SER:CB	2.31	0.60
2:C2:103:LEU:CD2	3:D3:163:PRO:HD3	2.30	0.60
2:C5:110:VAL:HG12	2:C5:215:VAL:HA	1.83	0.60
2:C5:115:ASN:ND2	3:DG:190:ALA:C	2.59	0.60
2:C5:115:ASN:C	3:DG:119:LYS:HZ3	2.09	0.60
2:C7:113:GLN:HA	2:C7:169:SER:O	2.01	0.60
2:CB:115:ASN:CA	3:Df:119:LYS:HD2	2.31	0.60
2:CD:207:GLN:HE22	3:D7:192:THR:HA	1.65	0.60
2:CD:213:MET:CE	2:CD:215:VAL:HG22	2.30	0.60
2:CH:115:ASN:CA	3:Ds:119:LYS:HD2	2.31	0.60
2:CK:113:GLN:HA	2:CK:169:SER:O	2.01	0.60
2:CL:78:ALA:HA	2:CL:196:ILE:O	2.02	0.60
2:CM:115:ASN:ND2	3:Di:190:ALA:C	2.59	0.60
2:CM:213:MET:CE	2:CM:215:VAL:HG22	2.30	0.60
2:CN:115:ASN:ND2	3:D2:190:ALA:C	2.59	0.60
2:CP:115:ASN:CA	3:D1:119:LYS:HD2	2.31	0.60
2:CR:115:ASN:ND2	3:EE:190:ALA:C	2.59	0.60
2:CS:110:VAL:HG12	2:CS:215:VAL:HA	1.83	0.60
2:CV:103:LEU:CD2	3:DW:163:PRO:HD3	2.30	0.60
2:CV:207:GLN:HE22	3:DB:192:THR:HA	1.65	0.60
2:CX:103:LEU:CD2	3:DY:163:PRO:HD3	2.31	0.60
2:CY:103:LEU:CD2	3:DU:163:PRO:HD3	2.30	0.60
2:Ca:115:ASN:ND2	3:DL:190:ALA:C	2.59	0.60
2:Cc:110:VAL:HG12	2:Cc:215:VAL:HA	1.83	0.60
2:Cd:110:VAL:HG12	2:Cd:215:VAL:HA	1.83	0.60
2:Ce:115:ASN:ND2	3:DC:190:ALA:C	2.59	0.60
2:Ce:115:ASN:CA	3:DC:119:LYS:HD2	2.31	0.60
2:Cj:115:ASN:ND2	3:DM:190:ALA:C	2.59	0.60
2:Ck:78:ALA:HA	2:Ck:196:ILE:O	2.01	0.60
2:Cl:15:GLU:HG3	2:Cl:29:SER:CB	2.30	0.60
2:Cn:54:LEU:HD12	2:Cn:220:ALA:CB	2.31	0.60
2:Co:115:ASN:ND2	3:DR:190:ALA:C	2.59	0.60
2:Cw:23:ILE:HD12	2:Cw:23:ILE:N	2.15	0.60
3:DF:160:TYR:OH	3:DF:167:MET:HG2	2.01	0.60
3:DT:42:ASN:HD22	3:DT:44:ILE:H	1.46	0.60
3:DX:27:PRO:HB3	4:FX:30:TYR:HA	1.82	0.60
3:Df:160:TYR:OH	3:Df:167:MET:HG2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Di:160:TYR:OH	3:Di:167:MET:HG2	2.00	0.60
3:Dl:14:PHE:O	3:Dl:15:MET:HB2	2.01	0.60
3:Do:42:ASN:HD22	3:Do:44:ILE:H	1.46	0.60
4:F2:25:PHE:HD2	4:F2:26:TYR:CE1	2.19	0.60
4:F7:25:PHE:HD2	4:F7:26:TYR:CE1	2.19	0.60
4:FR:25:PHE:HD2	4:FR:26:TYR:CE1	2.19	0.60
4:FU:25:PHE:HD2	4:FU:26:TYR:CE1	2.19	0.60
1:A1:102:VAL:HG22	1:A1:199:SER:CB	2.31	0.60
1:A3:130:ILE:HD11	1:A3:135:VAL:CG1	2.30	0.60
1:A3:209:LEU:CD1	1:A3:210:ARG:H	2.15	0.60
1:A6:209:LEU:CD1	1:A6:210:ARG:H	2.15	0.60
1:AA:209:LEU:O	1:AA:210:ARG:HG2	2.01	0.60
1:AF:121:LEU:CD2	1:AG:207:CYS:H	2.12	0.60
1:AH:5:GLY:O	1:AH:6:GLU:HB3	2.01	0.60
1:AJ:74:THR:HG21	3:DJ:43:PHE:CZ	2.35	0.60
1:AK:224:ILE:HG13	3:DK:89:TYR:CE1	2.36	0.60
1:AP:88:PHE:CE2	1:AP:146:ILE:HG21	2.37	0.60
1:AQ:209:LEU:O	1:AQ:210:ARG:HG2	2.01	0.60
1:AR:19:LEU:HB2	2:CQ:48:SER:HB2	1.82	0.60
1:AS:5:GLY:O	1:AS:6:GLU:HB3	2.02	0.60
1:Ab:224:ILE:HG13	3:Dd:89:TYR:CE1	2.37	0.60
1:Ac:137:GLY:HA2	1:Ad:38:PHE:HD1	1.65	0.60
1:Ac:209:LEU:CD1	1:Ac:210:ARG:H	2.15	0.60
1:Af:187:LEU:CD2	1:Af:188:PRO:HD2	2.25	0.60
1:Ag:88:PHE:CE1	1:Ag:205:GLY:CA	2.81	0.60
1:Ak:209:LEU:O	1:Ak:210:ARG:HG2	2.01	0.60
1:BB:74:THR:HG21	3:Dq:43:PHE:CZ	2.35	0.60
1:BG:121:LEU:CD2	1:BH:207:CYS:H	2.12	0.60
1:BI:209:LEU:O	1:BI:210:ARG:HG2	2.01	0.60
2:C0:115:ASN:ND2	3:DQ:190:ALA:C	2.59	0.60
2:C3:103:LEU:CD2	3:DZ:163:PRO:HD3	2.30	0.60
2:C4:54:LEU:HD12	2:C4:220:ALA:CB	2.31	0.60
2:C7:115:ASN:ND2	3:Dm:190:ALA:C	2.59	0.60
2:C7:213:MET:CE	2:C7:215:VAL:HG22	2.30	0.60
2:CA:15:GLU:HG3	2:CA:29:SER:CB	2.30	0.60
2:CA:54:LEU:HD12	2:CA:220:ALA:CB	2.31	0.60
2:CE:113:GLN:HA	2:CE:169:SER:O	2.00	0.60
2:CE:213:MET:CE	2:CE:215:VAL:HG22	2.30	0.60
2:CF:103:LEU:CD2	3:DG:163:PRO:HD3	2.30	0.60
2:CG:115:ASN:CA	3:EB:119:LYS:HD2	2.31	0.60
2:CG:207:GLN:HE22	3:EB:192:THR:HA	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:18:VAL:HG13	2:CI:23:ILE:HG13	1.82	0.60
2:CK:115:ASN:CA	3:Db:119:LYS:HD2	2.31	0.60
2:CQ:15:GLU:HG3	2:CQ:29:SER:CB	2.30	0.60
2:CQ:207:GLN:HE22	3:Dp:192:THR:HA	1.65	0.60
2:CS:54:LEU:HD12	2:CS:220:ALA:CB	2.31	0.60
2:CT:213:MET:CE	2:CT:215:VAL:HG22	2.30	0.60
2:CV:115:ASN:ND2	3:DB:190:ALA:C	2.59	0.60
2:CW:54:LEU:HD12	2:CW:220:ALA:CB	2.31	0.60
2:CY:18:VAL:HG13	2:CY:23:ILE:HG13	1.82	0.60
2:Ca:115:ASN:CA	3:DL:119:LYS:HD2	2.31	0.60
2:Cb:110:VAL:HG12	2:Cb:215:VAL:HA	1.83	0.60
2:Cd:115:ASN:ND2	3:D4:190:ALA:C	2.60	0.60
2:Ch:110:VAL:HG12	2:Ch:215:VAL:HA	1.83	0.60
2:Ch:115:ASN:ND2	3:DN:190:ALA:C	2.59	0.60
2:CI:54:LEU:HD12	2:CI:220:ALA:CB	2.31	0.60
2:Co:115:ASN:CA	3:DR:119:LYS:HD2	2.31	0.60
2:Cr:115:ASN:ND2	3:DI:190:ALA:C	2.59	0.60
2:Cs:207:GLN:HE22	3:EA:192:THR:HA	1.65	0.60
2:Ct:115:ASN:ND2	3:DH:190:ALA:C	2.59	0.60
2:Cv:113:GLN:HA	2:Cv:169:SER:O	2.01	0.60
3:D0:160:TYR:OH	3:D0:167:MET:HG2	2.01	0.60
3:D2:53:PHE:CE2	3:D2:205:LEU:HB3	2.31	0.60
3:D3:42:ASN:HD22	3:D3:44:ILE:HG22	1.65	0.60
3:DE:27:PRO:HB3	4:FE:30:TYR:HA	1.82	0.60
3:DI:160:TYR:OH	3:DI:167:MET:HG2	2.01	0.60
3:DM:27:PRO:HB3	4:FM:30:TYR:HA	1.81	0.60
3:DN:160:TYR:OH	3:DN:167:MET:HG2	2.01	0.60
3:DV:160:TYR:OH	3:DV:167:MET:HG2	2.00	0.60
3:Dr:42:ASN:HD22	3:Dr:44:ILE:H	1.46	0.60
4:Fe:25:PHE:HD2	4:Fe:26:TYR:CE1	2.19	0.60
4:Fg:25:PHE:HD2	4:Fg:26:TYR:CE1	2.19	0.60
4:Fp:25:PHE:HD2	4:Fp:26:TYR:CE1	2.19	0.60
1:A0:38:PHE:HD1	1:AZ:137:GLY:HA2	1.65	0.60
1:A0:88:PHE:CE1	1:A0:205:GLY:CA	2.81	0.60
1:A0:209:LEU:O	1:A0:210:ARG:HG2	2.01	0.60
1:A1:86:ILE:N	1:A1:86:ILE:CD1	2.65	0.60
1:A3:19:LEU:HB2	2:C8:48:SER:HB2	1.82	0.60
1:A7:5:GLY:O	1:A7:6:GLU:HB3	2.01	0.60
1:A7:19:LEU:HB2	2:C7:48:SER:HB2	1.82	0.60
1:A7:88:PHE:CE2	1:A7:146:ILE:HG21	2.37	0.60
1:A7:224:ILE:HG13	3:D8:89:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:5:GLY:O	1:A8:6:GLU:HB3	2.01	0.60
1:AB:224:ILE:HG13	3:DB:89:TYR:CE1	2.36	0.60
1:AD:121:LEU:CD2	1:AE:207:CYS:H	2.12	0.60
1:AF:74:THR:HG21	3:DF:43:PHE:CZ	2.35	0.60
1:AK:209:LEU:CD1	1:AK:210:ARG:H	2.15	0.60
1:AL:209:LEU:CD1	1:AL:210:ARG:H	2.15	0.60
1:AO:5:GLY:O	1:AO:6:GLU:HB3	2.01	0.60
1:AV:224:ILE:HG13	3:DW:89:TYR:CE1	2.37	0.60
1:AW:209:LEU:O	1:AW:210:ARG:HG2	2.01	0.60
1:AZ:187:LEU:CD2	1:AZ:188:PRO:HD2	2.25	0.60
1:AZ:224:ILE:HG13	3:D0:89:TYR:CE1	2.37	0.60
1:Ab:130:ILE:HD11	1:Ab:135:VAL:CG1	2.30	0.60
1:Ac:88:PHE:CE2	1:Ac:146:ILE:HG21	2.37	0.60
1:Ae:5:GLY:O	1:Ae:6:GLU:HB3	2.01	0.60
1:Af:224:ILE:HG13	3:Dh:89:TYR:CE1	2.37	0.60
1:Ag:224:ILE:HG13	3:Di:89:TYR:CE1	2.37	0.60
1:Ah:5:GLY:O	1:Ah:6:GLU:HB3	2.01	0.60
1:Am:88:PHE:CE1	1:Am:205:GLY:CA	2.81	0.60
1:Am:224:ILE:HG13	3:Do:89:TYR:CE1	2.37	0.60
1:An:88:PHE:CE2	1:An:146:ILE:HG21	2.37	0.60
1:Ao:86:ILE:N	1:Ao:86:ILE:CD1	2.65	0.60
1:Ao:187:LEU:CD2	1:Ao:188:PRO:HD2	2.25	0.60
1:Ao:209:LEU:CD1	1:Ao:210:ARG:H	2.15	0.60
1:Ao:224:ILE:HG13	3:DS:89:TYR:CE1	2.36	0.60
1:BA:187:LEU:CD2	1:BA:188:PRO:HD2	2.25	0.60
1:BC:137:GLY:HA2	1:BD:38:PHE:HD1	1.65	0.60
1:BD:5:GLY:O	1:BD:6:GLU:HB3	2.02	0.60
1:BI:224:ILE:HG13	3:EE:89:TYR:CE1	2.37	0.60
2:C3:110:VAL:HG11	2:C3:213:MET:HE3	1.81	0.60
2:C3:113:GLN:HA	2:C3:169:SER:O	2.01	0.60
2:C4:113:GLN:HA	2:C4:169:SER:O	2.01	0.60
2:C6:18:VAL:HG13	2:C6:23:ILE:HG13	1.82	0.60
2:C6:110:VAL:HG12	2:C6:215:VAL:HA	1.83	0.60
2:C6:115:ASN:ND2	3:DE:190:ALA:C	2.59	0.60
2:CE:115:ASN:ND2	3:DF:190:ALA:C	2.59	0.60
2:CF:213:MET:CE	2:CF:215:VAL:HG22	2.30	0.60
2:CN:103:LEU:CD2	3:DO:163:PRO:HD3	2.31	0.60
2:CO:115:ASN:ND2	3:DP:190:ALA:C	2.60	0.60
2:CQ:115:ASN:ND2	3:Dp:190:ALA:C	2.59	0.60
2:CR:113:GLN:HA	2:CR:169:SER:O	2.01	0.60
2:CR:213:MET:CE	2:CR:215:VAL:HG22	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CU:113:GLN:HA	2:CU:169:SER:O	2.01	0.60
2:CX:110:VAL:HG12	2:CX:215:VAL:HA	1.83	0.60
2:CY:78:ALA:HA	2:CY:196:ILE:O	2.01	0.60
2:Cc:213:MET:CE	2:Cc:215:VAL:HG22	2.30	0.60
2:Cf:207:GLN:HE22	3:DV:192:THR:HA	1.65	0.60
2:Cg:110:VAL:HG12	2:Cg:215:VAL:HA	1.83	0.60
2:Cm:213:MET:CE	2:Cm:215:VAL:HG22	2.30	0.60
2:Cn:115:ASN:ND2	3:De:190:ALA:C	2.59	0.60
2:Co:113:GLN:HA	2:Co:169:SER:O	2.01	0.60
2:Cq:213:MET:CE	2:Cq:215:VAL:HG22	2.30	0.60
2:Cs:103:LEU:CD2	3:Do:163:PRO:HD3	2.31	0.60
2:Cs:113:GLN:HA	2:Cs:169:SER:O	2.00	0.60
2:Cs:115:ASN:ND2	3:EA:190:ALA:C	2.59	0.60
3:DK:14:PHE:O	3:DK:15:MET:HB2	2.02	0.60
3:DT:14:PHE:O	3:DT:15:MET:HB2	2.02	0.60
3:Dh:160:TYR:OH	3:Dh:167:MET:HG2	2.01	0.60
3:Dr:160:TYR:OH	3:Dr:167:MET:HG2	2.01	0.60
3:Ds:14:PHE:O	3:Ds:15:MET:HB2	2.01	0.60
3:ED:14:PHE:O	3:ED:15:MET:HB2	2.01	0.60
3:EE:160:TYR:OH	3:EE:167:MET:HG2	2.01	0.60
4:FG:25:PHE:HD2	4:FG:26:TYR:CE1	2.19	0.60
4:FW:25:PHE:HD2	4:FW:26:TYR:CE1	2.19	0.60
4:Fk:25:PHE:HD2	4:Fk:26:TYR:CE1	2.19	0.60
4:Fw:25:PHE:HD2	4:Fw:26:TYR:CE1	2.19	0.60
1:A1:209:LEU:O	1:A1:210:ARG:HG2	2.01	0.60
1:A2:121:LEU:CD2	1:AY:207:CYS:H	2.12	0.60
1:A3:38:PHE:HD1	1:A7:137:GLY:HA2	1.65	0.60
1:A4:130:ILE:HD11	1:A4:135:VAL:CG1	2.30	0.60
1:A4:209:LEU:CD1	1:A4:210:ARG:H	2.15	0.60
1:A5:223:PRO:HD3	2:C6:158:PHE:CZ	2.37	0.60
1:A8:88:PHE:CE2	1:A8:146:ILE:HG21	2.37	0.60
1:A9:5:GLY:O	1:A9:6:GLU:HB3	2.01	0.60
1:AA:5:GLY:O	1:AA:6:GLU:HB3	2.01	0.60
1:AD:102:VAL:HG22	1:AD:199:SER:CB	2.30	0.60
1:AE:5:GLY:O	1:AE:6:GLU:HB3	2.01	0.60
1:AF:5:GLY:O	1:AF:6:GLU:HB3	2.01	0.60
1:AJ:5:GLY:O	1:AJ:6:GLU:HB3	2.02	0.60
1:AL:224:ILE:HG13	3:DL:89:TYR:CE1	2.37	0.60
1:AM:224:ILE:HG13	3:DM:89:TYR:CE1	2.37	0.60
1:AO:209:LEU:CD1	1:AO:210:ARG:H	2.15	0.60
1:AO:209:LEU:O	1:AO:210:ARG:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:86:ILE:N	1:AQ:86:ILE:CD1	2.65	0.60
1:AQ:224:ILE:HG13	3:DQ:89:TYR:CE1	2.37	0.60
1:AT:38:PHE:HD1	1:AX:137:GLY:HA2	1.65	0.60
1:AU:209:LEU:O	1:AU:210:ARG:HG2	2.01	0.60
1:AU:224:ILE:HG13	3:DV:89:TYR:CE1	2.37	0.60
1:AV:173:GLY:CA	2:CW:188:LEU:O	2.50	0.60
1:AV:209:LEU:CD1	1:AV:210:ARG:H	2.15	0.60
1:AZ:74:THR:HG21	3:D0:43:PHE:CZ	2.35	0.60
1:Ac:86:ILE:N	1:Ac:86:ILE:CD1	2.65	0.60
1:Ac:173:GLY:CA	2:Ce:188:LEU:O	2.50	0.60
1:Ad:19:LEU:HB2	2:Ce:48:SER:HB2	1.83	0.60
1:Ad:86:ILE:N	1:Ad:86:ILE:CD1	2.65	0.60
1:Ad:102:VAL:HG22	1:Ad:199:SER:CB	2.31	0.60
1:Ad:209:LEU:O	1:Ad:210:ARG:HG2	2.01	0.60
1:Ae:224:ILE:HG13	3:Dg:89:TYR:CE1	2.37	0.60
1:Af:209:LEU:CD1	1:Af:210:ARG:H	2.15	0.60
1:Ag:223:PRO:HD3	2:Ci:158:PHE:CZ	2.37	0.60
1:Ak:19:LEU:HB2	2:Cl:48:SER:HB2	1.82	0.60
1:BB:224:ILE:HG13	3:Dq:89:TYR:CE1	2.37	0.60
1:BC:19:LEU:HB2	2:Cq:48:SER:HB2	1.83	0.60
1:BD:19:LEU:HB2	2:Cr:48:SER:HB2	1.82	0.60
1:BE:5:GLY:O	1:BE:6:GLU:HB3	2.01	0.60
1:BG:224:ILE:HG13	3:EC:89:TYR:CE1	2.37	0.60
1:BI:5:GLY:O	1:BI:6:GLU:HB3	2.01	0.60
1:BI:88:PHE:CE2	1:BI:146:ILE:HG21	2.37	0.60
1:BI:102:VAL:HG22	1:BI:199:SER:CB	2.31	0.60
2:C0:113:GLN:HA	2:C0:169:SER:O	2.00	0.60
2:C1:78:ALA:HA	2:C1:196:ILE:O	2.01	0.60
2:C1:113:GLN:HA	2:C1:169:SER:O	2.00	0.60
2:C6:103:LEU:CD2	3:D7:163:PRO:HD3	2.30	0.60
2:C8:113:GLN:HA	2:C8:169:SER:O	2.00	0.60
2:C8:115:ASN:C	3:D9:119:LYS:HZ3	2.08	0.60
2:C9:110:VAL:HG12	2:C9:215:VAL:HA	1.83	0.60
2:CC:213:MET:CE	2:CC:215:VAL:HG22	2.30	0.60
2:CG:78:ALA:HA	2:CG:196:ILE:O	2.02	0.60
2:CK:15:GLU:HG3	2:CK:29:SER:CB	2.30	0.60
2:CL:213:MET:CE	2:CL:215:VAL:HG22	2.30	0.60
2:CO:207:GLN:HE22	3:DP:192:THR:HA	1.65	0.60
2:CP:18:VAL:HG13	2:CP:23:ILE:HG13	1.82	0.60
2:CQ:110:VAL:HG12	2:CQ:215:VAL:HA	1.83	0.60
2:CT:78:ALA:HA	2:CT:196:ILE:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:54:LEU:HD12	2:CV:220:ALA:CB	2.31	0.60
2:Cb:78:ALA:HA	2:Cb:196:ILE:O	2.02	0.60
2:Cc:103:LEU:CD2	3:Dd:163:PRO:HD3	2.30	0.60
2:Cd:213:MET:CE	2:Cd:215:VAL:HG22	2.30	0.60
2:Ce:110:VAL:HG12	2:Ce:215:VAL:HA	1.83	0.60
2:Ch:54:LEU:HD12	2:Ch:220:ALA:CB	2.31	0.60
2:Cj:78:ALA:HA	2:Cj:196:ILE:O	2.02	0.60
2:Cm:78:ALA:HA	2:Cm:196:ILE:O	2.02	0.60
2:Cm:115:ASN:ND2	3:DD:190:ALA:C	2.59	0.60
2:Cp:110:VAL:HG11	2:Cp:213:MET:HE3	1.81	0.60
2:Cq:23:ILE:HD12	2:Cq:23:ILE:N	2.15	0.60
2:Cq:78:ALA:HA	2:Cq:196:ILE:O	2.02	0.60
2:Cs:213:MET:CE	2:Cs:215:VAL:HG22	2.30	0.60
2:Cu:115:ASN:ND2	3:D5:190:ALA:C	2.59	0.60
2:Cx:115:ASN:ND2	3:Do:190:ALA:C	2.59	0.60
2:Cx:207:GLN:HE22	3:Do:192:THR:HA	1.65	0.60
3:DD:160:TYR:OH	3:DD:167:MET:HG2	2.00	0.60
3:DI:42:ASN:HD22	3:DI:44:ILE:HG22	1.65	0.60
3:Da:160:TYR:OH	3:Da:167:MET:HG2	2.01	0.60
3:Db:14:PHE:O	3:Db:15:MET:HB2	2.02	0.60
3:Df:42:ASN:HD22	3:Df:44:ILE:H	1.46	0.60
3:Dl:160:TYR:OH	3:Dl:167:MET:HG2	2.00	0.60
3:ED:160:TYR:OH	3:ED:167:MET:HG2	2.01	0.60
4:FB:25:PHE:HD2	4:FB:26:TYR:CE1	2.19	0.60
4:FI:25:PHE:HD2	4:FI:26:TYR:CE1	2.19	0.60
4:FL:25:PHE:HD2	4:FL:26:TYR:CE1	2.19	0.60
1:A0:88:PHE:CE2	1:A0:146:ILE:HG21	2.37	0.60
1:A1:5:GLY:O	1:A1:6:GLU:HB3	2.01	0.60
1:A1:88:PHE:CE2	1:A1:146:ILE:HG21	2.37	0.60
1:A2:209:LEU:O	1:A2:210:ARG:HG2	2.01	0.60
1:A3:173:GLY:CA	2:C4:188:LEU:O	2.50	0.60
1:A3:224:ILE:HG13	3:D4:89:TYR:CE1	2.36	0.60
1:A6:86:ILE:N	1:A6:86:ILE:CD1	2.65	0.60
1:A6:102:VAL:HG22	1:A6:199:SER:CB	2.30	0.60
1:A6:173:GLY:CA	2:C7:188:LEU:O	2.50	0.60
1:A7:102:VAL:HG22	1:A7:199:SER:CB	2.31	0.60
1:A7:209:LEU:CD1	1:A7:210:ARG:H	2.15	0.60
1:A8:121:LEU:CD2	1:A9:207:CYS:H	2.12	0.60
1:A8:209:LEU:CD1	1:A8:210:ARG:H	2.15	0.60
1:A9:88:PHE:CE2	1:A9:146:ILE:HG21	2.37	0.60
1:AB:5:GLY:O	1:AB:6:GLU:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:209:LEU:CD1	1:AE:210:ARG:H	2.15	0.60
1:AE:224:ILE:HG13	3:DE:89:TYR:CE1	2.37	0.60
1:AF:209:LEU:CD1	1:AF:210:ARG:H	2.15	0.60
1:AG:121:LEU:CD2	1:AH:207:CYS:H	2.12	0.60
1:AJ:86:ILE:N	1:AJ:86:ILE:CD1	2.65	0.60
1:AL:86:ILE:N	1:AL:86:ILE:CD1	2.65	0.60
1:AL:88:PHE:CE2	1:AL:146:ILE:HG21	2.37	0.60
1:AM:223:PRO:HD3	2:CM:158:PHE:CZ	2.37	0.60
1:AN:224:ILE:HG13	3:DN:89:TYR:CE1	2.37	0.60
1:AP:224:ILE:HG13	3:DP:89:TYR:CE1	2.37	0.60
1:AS:209:LEU:O	1:AS:210:ARG:HG2	2.01	0.60
1:AU:5:GLY:O	1:AU:6:GLU:HB3	2.01	0.60
1:AW:102:VAL:HG22	1:AW:199:SER:CB	2.31	0.60
1:AX:173:GLY:CA	2:CY:188:LEU:O	2.50	0.60
1:AX:209:LEU:CD1	1:AX:210:ARG:H	2.15	0.60
1:Aa:173:GLY:CA	2:Cc:188:LEU:O	2.50	0.60
1:Aa:209:LEU:O	1:Aa:210:ARG:HG2	2.01	0.60
1:Ag:19:LEU:HB2	2:Ch:48:SER:HB2	1.82	0.60
1:Ah:130:ILE:HD11	1:Ah:135:VAL:CG1	2.30	0.60
1:Ai:224:ILE:HG13	3:Dk:89:TYR:CE1	2.37	0.60
1:Aj:88:PHE:CE2	1:Aj:146:ILE:HG21	2.37	0.60
1:BA:209:LEU:O	1:BA:210:ARG:HG2	2.01	0.60
1:BF:5:GLY:O	1:BF:6:GLU:HB3	2.01	0.60
1:BF:104:VAL:HG22	1:BF:197:LEU:HD23	1.80	0.60
1:BF:209:LEU:O	1:BF:210:ARG:HG2	2.01	0.60
2:C1:110:VAL:HG12	2:C1:215:VAL:HA	1.83	0.60
2:C2:18:VAL:HG13	2:C2:23:ILE:HG13	1.82	0.60
2:C4:213:MET:CE	2:C4:215:VAL:HG22	2.30	0.60
2:C5:78:ALA:HA	2:C5:196:ILE:O	2.01	0.60
2:C6:207:GLN:HE22	3:DE:192:THR:HA	1.65	0.60
2:C8:103:LEU:CD2	3:D4:163:PRO:HD3	2.30	0.60
2:CF:78:ALA:HA	2:CF:196:ILE:O	2.02	0.60
2:CG:115:ASN:ND2	3:EB:190:ALA:C	2.59	0.60
2:CJ:110:VAL:HG12	2:CJ:215:VAL:HA	1.83	0.60
2:CO:78:ALA:HA	2:CO:196:ILE:O	2.01	0.60
2:CP:78:ALA:HA	2:CP:196:ILE:O	2.01	0.60
2:CS:115:ASN:ND2	3:Dc:190:ALA:C	2.59	0.60
2:CT:115:ASN:ND2	3:DK:190:ALA:C	2.59	0.60
2:CU:78:ALA:HA	2:CU:196:ILE:O	2.01	0.60
2:CU:213:MET:CE	2:CU:215:VAL:HG22	2.30	0.60
2:CV:113:GLN:HA	2:CV:169:SER:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:115:ASN:CA	3:DB:119:LYS:HD2	2.31	0.60
2:CX:207:GLN:HE22	3:Dr:192:THR:HA	1.65	0.60
2:Cb:103:LEU:CD2	3:Dc:163:PRO:HD3	2.31	0.60
2:Cc:113:GLN:HA	2:Cc:169:SER:O	2.01	0.60
2:Cd:103:LEU:CD2	3:D9:163:PRO:HD3	2.31	0.60
2:Cf:113:GLN:HA	2:Cf:169:SER:O	2.01	0.60
2:Ch:78:ALA:HA	2:Ch:196:ILE:O	2.01	0.60
2:Ci:115:ASN:CA	3:Dj:119:LYS:HD2	2.31	0.60
2:Cj:213:MET:CE	2:Cj:215:VAL:HG22	2.30	0.60
2:Ck:115:ASN:C	3:Da:119:LYS:HZ3	2.09	0.60
2:Cl:115:ASN:ND2	3:D8:190:ALA:C	2.59	0.60
2:Co:110:VAL:HG11	2:Co:213:MET:HE3	1.81	0.60
2:Ct:54:LEU:HD12	2:Ct:220:ALA:CB	2.31	0.60
2:Ct:78:ALA:HA	2:Ct:196:ILE:O	2.02	0.60
2:Cw:78:ALA:HA	2:Cw:196:ILE:O	2.02	0.60
2:Cw:103:LEU:CD2	3:EE:163:PRO:HD3	2.31	0.60
2:Cw:115:ASN:ND2	3:DS:190:ALA:C	2.59	0.60
2:Cx:18:VAL:HG13	2:Cx:23:ILE:HG13	1.82	0.60
3:D1:160:TYR:OH	3:D1:167:MET:HG2	2.01	0.60
3:DB:42:ASN:HD22	3:DB:44:ILE:HG22	1.65	0.60
3:DC:42:ASN:HD22	3:DC:44:ILE:HG22	1.65	0.60
3:DN:14:PHE:O	3:DN:15:MET:HB2	2.01	0.60
3:Dj:160:TYR:OH	3:Dj:167:MET:HG2	2.01	0.60
4:FP:25:PHE:HD2	4:FP:26:TYR:CE1	2.19	0.60
4:Fd:25:PHE:HD2	4:Fd:26:TYR:CE1	2.19	0.60
4:Ff:25:PHE:HD2	4:Ff:26:TYR:CE1	2.19	0.60
4:Fi:25:PHE:HD2	4:Fi:26:TYR:CE1	2.19	0.60
4:Fl:25:PHE:HD2	4:Fl:26:TYR:CE1	2.19	0.60
4:Fn:25:PHE:HD2	4:Fn:26:TYR:CE1	2.19	0.60
4:Fu:25:PHE:HD2	4:Fu:26:TYR:CE1	2.19	0.60
1:A1:223:PRO:HD3	2:C2:158:PHE:CZ	2.37	0.60
1:A2:224:ILE:HG13	3:D3:89:TYR:CE1	2.37	0.60
1:A5:224:ILE:HG13	3:D6:89:TYR:CE1	2.37	0.60
1:A7:223:PRO:HD3	2:C8:158:PHE:CZ	2.37	0.60
1:A8:130:ILE:HD11	1:A8:135:VAL:CG1	2.30	0.60
1:AA:86:ILE:N	1:AA:86:ILE:CD1	2.65	0.60
1:AA:137:GLY:HA2	1:AB:38:PHE:HD1	1.65	0.60
1:AA:207:CYS:H	1:AE:121:LEU:CD2	2.12	0.60
1:AB:173:GLY:CA	2:CB:188:LEU:O	2.50	0.60
1:AD:224:ILE:HG13	3:DD:89:TYR:CE1	2.37	0.60
1:AF:224:ILE:HG13	3:DF:89:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:223:PRO:HD3	2:CG:158:PHE:CZ	2.37	0.60
1:AH:86:ILE:N	1:AH:86:ILE:CD1	2.65	0.60
1:AH:209:LEU:CD1	1:AH:210:ARG:H	2.15	0.60
1:AI:223:PRO:HD3	2:CI:158:PHE:CZ	2.37	0.60
1:AJ:173:GLY:CA	2:CJ:188:LEU:O	2.50	0.60
1:AJ:209:LEU:O	1:AJ:210:ARG:HG2	2.01	0.60
1:AK:209:LEU:O	1:AK:210:ARG:HG2	2.01	0.60
1:AL:209:LEU:O	1:AL:210:ARG:HG2	2.01	0.60
1:AM:19:LEU:HB2	2:CL:48:SER:HB2	1.82	0.60
1:AN:223:PRO:HD3	2:CN:158:PHE:CZ	2.37	0.60
1:AO:86:ILE:N	1:AO:86:ILE:CD1	2.65	0.60
1:AO:88:PHE:CE2	1:AO:146:ILE:HG21	2.37	0.60
1:AO:173:GLY:CA	2:CO:188:LEU:O	2.50	0.60
1:AO:224:ILE:HG13	3:DO:89:TYR:CE1	2.37	0.60
1:AP:209:LEU:CD1	1:AP:210:ARG:H	2.15	0.60
1:AQ:5:GLY:O	1:AQ:6:GLU:HB3	2.01	0.60
1:AR:86:ILE:N	1:AR:86:ILE:CD1	2.65	0.60
1:AT:88:PHE:CE1	1:AT:205:GLY:CA	2.81	0.60
1:AT:223:PRO:HD3	2:CU:158:PHE:CZ	2.37	0.60
1:AU:102:VAL:HG22	1:AU:199:SER:CB	2.30	0.60
1:AV:88:PHE:CE2	1:AV:146:ILE:HG21	2.37	0.60
1:AY:223:PRO:HD3	2:CZ:158:PHE:CZ	2.37	0.60
1:AZ:223:PRO:HD3	2:C0:158:PHE:CZ	2.37	0.60
1:Ab:209:LEU:O	1:Ab:210:ARG:HG2	2.01	0.60
1:Ad:5:GLY:O	1:Ad:6:GLU:HB3	2.01	0.60
1:Af:86:ILE:N	1:Af:86:ILE:CD1	2.65	0.60
1:Ag:5:GLY:O	1:Ag:6:GLU:HB3	2.01	0.60
1:Ah:209:LEU:O	1:Ah:210:ARG:HG2	2.01	0.60
1:Aj:102:VAL:HG22	1:Aj:199:SER:CB	2.31	0.60
1:Aj:173:GLY:CA	2:Cl:188:LEU:O	2.50	0.60
1:Am:130:ILE:HD11	1:Am:135:VAL:CG1	2.30	0.60
1:An:209:LEU:CD1	1:An:210:ARG:H	2.15	0.60
1:Ao:130:ILE:HD11	1:Ao:135:VAL:CG1	2.30	0.60
1:BA:224:ILE:HG13	3:Dp:89:TYR:CE1	2.37	0.60
1:BB:130:ILE:HD11	1:BB:135:VAL:CG1	2.30	0.60
1:BB:223:PRO:HD3	2:Cq:158:PHE:CZ	2.37	0.60
1:BF:173:GLY:CA	2:Cu:188:LEU:O	2.50	0.60
1:BG:86:ILE:N	1:BG:86:ILE:CD1	2.65	0.60
1:BG:223:PRO:HD3	2:Cv:158:PHE:CZ	2.37	0.60
1:BH:223:PRO:HD3	2:Cw:158:PHE:CZ	2.37	0.60
1:BH:224:ILE:HG13	3:ED:89:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:115:ASN:ND2	3:DO:190:ALA:C	2.60	0.60
2:C2:115:ASN:ND2	3:Dh:190:ALA:C	2.59	0.60
2:C3:110:VAL:HG12	2:C3:215:VAL:HA	1.83	0.60
2:C6:15:GLU:HG3	2:C6:29:SER:CB	2.30	0.60
2:C8:213:MET:CE	2:C8:215:VAL:HG22	2.30	0.60
2:CA:103:LEU:CD2	3:DB:163:PRO:HD3	2.31	0.60
2:CD:110:VAL:HG11	2:CD:213:MET:HE3	1.81	0.60
2:CD:115:ASN:CA	3:D7:119:LYS:HD2	2.31	0.60
2:CG:54:LEU:HD12	2:CG:220:ALA:CB	2.31	0.60
2:CI:115:ASN:ND2	3:DX:190:ALA:C	2.59	0.60
2:CL:115:ASN:ND2	3:Dk:190:ALA:C	2.59	0.60
2:CM:18:VAL:HG13	2:CM:23:ILE:HG13	1.82	0.60
2:CM:78:ALA:HA	2:CM:196:ILE:O	2.02	0.60
2:CM:207:GLN:HE22	3:Di:192:THR:HA	1.65	0.60
2:CN:54:LEU:HD12	2:CN:220:ALA:CB	2.31	0.60
2:CP:54:LEU:HD12	2:CP:220:ALA:CB	2.31	0.60
2:CS:115:ASN:CA	3:Dc:119:LYS:HD2	2.31	0.60
2:CT:207:GLN:HE22	3:DK:192:THR:HA	1.65	0.60
2:CX:113:GLN:HA	2:CX:169:SER:O	2.01	0.60
2:CZ:78:ALA:HA	2:CZ:196:ILE:O	2.02	0.60
2:CZ:213:MET:CE	2:CZ:215:VAL:HG22	2.30	0.60
2:Ca:110:VAL:HG12	2:Ca:215:VAL:HA	1.83	0.60
2:Cb:115:ASN:ND2	3:DT:190:ALA:C	2.59	0.60
2:Cd:78:ALA:HA	2:Cd:196:ILE:O	2.02	0.60
2:Cf:115:ASN:ND2	3:DV:190:ALA:C	2.59	0.60
2:Ck:18:VAL:HG13	2:Ck:23:ILE:HG13	1.82	0.60
2:Ck:115:ASN:ND2	3:Da:190:ALA:C	2.59	0.60
2:Cq:15:GLU:HG3	2:Cq:29:SER:CB	2.30	0.60
2:Cx:78:ALA:HA	2:Cx:196:ILE:O	2.01	0.60
3:D5:27:PRO:HB3	4:F5:30:TYR:HA	1.82	0.60
3:DW:160:TYR:OH	3:DW:167:MET:HG2	2.01	0.60
3:Dc:27:PRO:HB3	4:Fc:30:TYR:HA	1.82	0.60
3:Df:27:PRO:HB3	4:Ff:30:TYR:HA	1.81	0.60
4:F6:25:PHE:HD2	4:F6:26:TYR:CE1	2.19	0.60
4:F9:25:PHE:HD2	4:F9:26:TYR:CE1	2.19	0.60
1:A3:209:LEU:O	1:A3:210:ARG:HG2	2.01	0.60
1:A4:209:LEU:O	1:A4:210:ARG:HG2	2.01	0.60
1:A5:209:LEU:CD1	1:A5:210:ARG:H	2.15	0.60
1:A6:88:PHE:CE2	1:A6:146:ILE:HG21	2.37	0.60
1:A8:19:LEU:HB2	2:Cd:48:SER:HB2	1.83	0.60
1:A8:224:ILE:HG13	3:D9:89:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:223:PRO:HD3	2:Ca:158:PHE:CZ	2.37	0.60
1:AB:187:LEU:CD2	1:AB:188:PRO:HD2	2.25	0.60
1:AD:86:ILE:N	1:AD:86:ILE:CD1	2.65	0.60
1:AD:173:GLY:CA	2:CD:188:LEU:O	2.50	0.60
1:AD:209:LEU:O	1:AD:210:ARG:HG2	2.01	0.60
1:AE:102:VAL:HG22	1:AE:199:SER:CB	2.31	0.60
1:AE:209:LEU:O	1:AE:210:ARG:HG2	2.01	0.60
1:AF:173:GLY:CA	2:CF:188:LEU:O	2.50	0.60
1:AI:173:GLY:CA	2:CI:188:LEU:O	2.50	0.60
1:AK:5:GLY:O	1:AK:6:GLU:HB3	2.01	0.60
1:AK:88:PHE:CE2	1:AK:146:ILE:HG21	2.37	0.60
1:AN:209:LEU:O	1:AN:210:ARG:HG2	2.01	0.60
1:AP:173:GLY:CA	2:CP:188:LEU:O	2.50	0.60
1:AU:86:ILE:N	1:AU:86:ILE:CD1	2.65	0.60
1:AV:209:LEU:O	1:AV:210:ARG:HG2	2.01	0.60
1:AW:74:THR:HG21	3:DX:43:PHE:CZ	2.35	0.60
1:AZ:19:LEU:HB2	2:CZ:48:SER:HB2	1.82	0.60
1:Aa:102:VAL:HG22	1:Aa:199:SER:CB	2.30	0.60
1:Ab:88:PHE:CE2	1:Ab:146:ILE:HG21	2.37	0.60
1:Ab:223:PRO:HD3	2:Cd:158:PHE:CZ	2.37	0.60
1:Ae:88:PHE:CE2	1:Ae:146:ILE:HG21	2.37	0.60
1:Ag:173:GLY:CA	2:Ci:188:LEU:O	2.50	0.60
1:Al:88:PHE:CE2	1:Al:146:ILE:HG21	2.36	0.60
1:Am:5:GLY:O	1:Am:6:GLU:HB3	2.01	0.60
1:An:173:GLY:CA	2:Cb:188:LEU:O	2.50	0.60
1:An:224:ILE:HG13	3:Db:89:TYR:CE1	2.37	0.60
1:Ao:88:PHE:CE1	1:Ao:205:GLY:CA	2.81	0.60
1:BD:173:GLY:CA	2:Cs:188:LEU:O	2.50	0.60
1:BF:137:GLY:HA2	1:BG:38:PHE:HD1	1.65	0.60
1:BH:19:LEU:HB2	2:Cv:48:SER:HB2	1.83	0.60
1:BH:173:GLY:CA	2:Cw:188:LEU:O	2.50	0.60
1:BI:173:GLY:CA	2:Cx:188:LEU:O	2.50	0.60
2:C0:15:GLU:HG3	2:C0:29:SER:CB	2.30	0.60
2:C1:54:LEU:HD12	2:C1:220:ALA:CB	2.31	0.60
2:C3:213:MET:CE	2:C3:215:VAL:HG22	2.30	0.60
2:C4:18:VAL:HG13	2:C4:23:ILE:HG13	1.82	0.60
2:C8:110:VAL:HG12	2:C8:215:VAL:HA	1.83	0.60
2:C9:115:ASN:CA	3:DI:119:LYS:HD2	2.31	0.60
2:CA:115:ASN:ND2	3:DW:190:ALA:C	2.59	0.60
2:CB:110:VAL:HG12	2:CB:215:VAL:HA	1.83	0.60
2:CC:110:VAL:HG12	2:CC:215:VAL:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:207:GLN:HE22	3:DF:192:THR:HA	1.65	0.60
2:CG:113:GLN:HA	2:CG:169:SER:O	2.01	0.60
2:CJ:103:LEU:CD2	3:DF:163:PRO:HD3	2.30	0.60
2:CJ:115:ASN:ND2	3:DA:190:ALA:C	2.59	0.60
2:CK:110:VAL:HG12	2:CK:215:VAL:HA	1.83	0.60
2:CM:27:GLN:HG3	2:CM:28:GLY:N	2.17	0.60
2:CR:54:LEU:HD12	2:CR:220:ALA:CB	2.31	0.60
2:CS:78:ALA:HA	2:CS:196:ILE:O	2.01	0.60
2:CT:18:VAL:HG13	2:CT:23:ILE:HG13	1.82	0.60
2:CT:110:VAL:HG12	2:CT:215:VAL:HA	1.83	0.60
2:CW:115:ASN:ND2	3:DJ:190:ALA:C	2.59	0.60
2:Cb:213:MET:CE	2:Cb:215:VAL:HG22	2.30	0.60
2:Cc:115:ASN:ND2	3:ED:190:ALA:C	2.59	0.60
2:Cc:78:ALA:HA	2:Cc:196:ILE:O	2.02	0.60
2:Cg:18:VAL:HG13	2:Cg:23:ILE:HG13	1.82	0.60
2:Ci:213:MET:CE	2:Ci:215:VAL:HG22	2.30	0.60
2:Cl:207:GLN:HE22	3:D8:192:THR:HA	1.65	0.60
2:Co:207:GLN:HE22	3:DR:192:THR:HA	1.65	0.60
2:Cp:78:ALA:HA	2:Cp:196:ILE:O	2.01	0.60
2:Cq:115:ASN:CA	3:DY:119:LYS:HD2	2.31	0.60
2:Cq:207:GLN:HE22	3:DY:192:THR:HA	1.65	0.60
2:Cr:78:ALA:HA	2:Cr:196:ILE:O	2.01	0.60
2:Cr:207:GLN:HE22	3:DI:192:THR:HA	1.65	0.60
2:Cs:54:LEU:HD12	2:Cs:220:ALA:CB	2.31	0.60
2:Cs:110:VAL:HG12	2:Cs:215:VAL:HA	1.83	0.60
2:Ct:27:GLN:HG3	2:Ct:28:GLY:N	2.17	0.60
2:Ct:113:GLN:HA	2:Ct:169:SER:O	2.00	0.60
2:Cw:54:LEU:HD12	2:Cw:220:ALA:CB	2.31	0.60
2:Cx:110:VAL:HG12	2:Cx:215:VAL:HA	1.83	0.60
2:Cx:115:ASN:CA	3:Do:119:LYS:HD2	2.31	0.60
3:D2:160:TYR:OH	3:D2:167:MET:HG2	2.01	0.60
3:DH:160:TYR:OH	3:DH:167:MET:HG2	2.01	0.60
3:DJ:14:PHE:O	3:DJ:15:MET:HB2	2.01	0.60
3:DJ:42:ASN:HD22	3:DJ:44:ILE:HG22	1.65	0.60
3:DK:160:TYR:OH	3:DK:167:MET:HG2	2.01	0.60
3:DM:53:PHE:CE2	3:DM:205:LEU:HB3	2.31	0.60
3:DP:14:PHE:O	3:DP:15:MET:HB2	2.01	0.60
3:DQ:160:TYR:OH	3:DQ:167:MET:HG2	2.01	0.60
3:DY:14:PHE:O	3:DY:15:MET:HB2	2.02	0.60
3:DY:160:TYR:OH	3:DY:167:MET:HG2	2.01	0.60
3:Dc:14:PHE:O	3:Dc:15:MET:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dd:53:PHE:CE2	3:Dd:205:LEU:HB3	2.31	0.60
3:Di:14:PHE:O	3:Di:15:MET:HB2	2.02	0.60
4:Fb:25:PHE:HD2	4:Fb:26:TYR:CE1	2.19	0.60
4:Ft:25:PHE:HD2	4:Ft:26:TYR:CE1	2.19	0.60
1:A0:86:ILE:N	1:A0:86:ILE:CD1	2.65	0.60
1:A1:173:GLY:CA	2:C2:188:LEU:O	2.50	0.60
1:A1:224:ILE:HG13	3:D2:89:TYR:CE1	2.37	0.60
1:A2:19:LEU:HB2	2:C2:48:SER:HB2	1.82	0.60
1:A3:137:GLY:HA2	1:A4:38:PHE:HD1	1.65	0.60
1:A4:224:ILE:HG13	3:D5:89:TYR:CE1	2.37	0.60
1:A7:173:GLY:CA	2:C8:188:LEU:O	2.50	0.60
1:AB:88:PHE:CE2	1:AB:146:ILE:HG21	2.37	0.60
1:AC:115:THR:HG22	1:AC:131:GLN:OE1	2.02	0.60
1:AC:136:ALA:H	1:AD:39:ASP:HB2	1.67	0.60
1:AC:223:PRO:HD3	2:CC:158:PHE:CZ	2.37	0.60
1:AE:115:THR:HG22	1:AE:131:GLN:OE1	2.02	0.60
1:AE:223:PRO:HD3	2:CE:158:PHE:CZ	2.37	0.60
1:AF:209:LEU:O	1:AF:210:ARG:HG2	2.01	0.60
1:AG:209:LEU:O	1:AG:210:ARG:HG2	2.01	0.60
1:AG:224:ILE:HG13	3:DG:89:TYR:CE1	2.37	0.60
1:AI:187:LEU:CD2	1:AI:188:PRO:HD2	2.25	0.60
1:AK:115:THR:HG22	1:AK:131:GLN:OE1	2.02	0.60
1:AN:115:THR:HG22	1:AN:131:GLN:OE1	2.02	0.60
1:AQ:137:GLY:HA2	1:AR:38:PHE:HD1	1.65	0.60
1:AQ:209:LEU:CD1	1:AQ:210:ARG:H	2.15	0.60
1:AR:209:LEU:CD1	1:AR:210:ARG:H	2.15	0.60
1:AS:88:PHE:CE2	1:AS:146:ILE:HG21	2.37	0.60
1:AU:115:THR:HG22	1:AU:131:GLN:OE1	2.02	0.60
1:AU:223:PRO:HD3	2:CV:158:PHE:CZ	2.37	0.60
1:AV:5:GLY:O	1:AV:6:GLU:HB3	2.02	0.60
1:AW:86:ILE:N	1:AW:86:ILE:CD1	2.65	0.60
1:AW:209:LEU:CD1	1:AW:210:ARG:H	2.15	0.60
1:AX:115:THR:HG22	1:AX:131:GLN:OE1	2.02	0.60
1:Aa:88:PHE:CE2	1:Aa:146:ILE:HG21	2.37	0.60
1:Aa:115:THR:HG22	1:Aa:131:GLN:OE1	2.02	0.60
1:Aa:223:PRO:HD3	2:Cc:158:PHE:CZ	2.37	0.60
1:Ab:86:ILE:N	1:Ab:86:ILE:CD1	2.65	0.60
1:Ad:88:PHE:CE2	1:Ad:146:ILE:HG21	2.37	0.60
1:Ah:224:ILE:HG13	3:Dj:89:TYR:CE1	2.37	0.60
1:Ai:5:GLY:O	1:Ai:6:GLU:HB3	2.01	0.60
1:Ai:88:PHE:CE2	1:Ai:146:ILE:HG21	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:223:PRO:HD3	2:Ck:158:PHE:CZ	2.37	0.60
1:Aj:224:ILE:HG13	3:Dl:89:TYR:CE1	2.36	0.60
1:Al:19:LEU:HB2	2:Cm:48:SER:HB2	1.82	0.60
1:Al:102:VAL:HG22	1:Al:199:SER:CB	2.30	0.60
1:An:19:LEU:HB2	2:Ca:48:SER:HB2	1.82	0.60
1:Ao:19:LEU:HB2	2:CR:48:SER:HB2	1.82	0.60
1:BA:121:LEU:CD2	1:BB:207:CYS:H	2.12	0.60
1:BC:173:GLY:CA	2:Cr:188:LEU:O	2.50	0.60
1:BD:209:LEU:CD1	1:BD:210:ARG:H	2.15	0.60
1:BD:224:ILE:HG13	3:Ds:89:TYR:CE1	2.37	0.60
1:BE:173:GLY:CA	2:Ct:188:LEU:O	2.50	0.60
1:BF:224:ILE:HG13	3:EB:89:TYR:CE1	2.37	0.60
1:BG:19:LEU:HB2	2:Cu:48:SER:HB2	1.83	0.60
1:BH:5:GLY:O	1:BH:6:GLU:HB3	2.01	0.60
1:BI:86:ILE:N	1:BI:86:ILE:CD1	2.65	0.60
2:C2:213:MET:CE	2:C2:215:VAL:HG22	2.30	0.60
2:C5:113:GLN:HA	2:C5:169:SER:O	2.01	0.60
2:C6:78:ALA:HA	2:C6:196:ILE:O	2.02	0.60
2:C8:115:ASN:ND2	3:D9:190:ALA:C	2.59	0.60
2:C9:78:ALA:HA	2:C9:196:ILE:O	2.02	0.60
2:C9:115:ASN:ND2	3:Dl:190:ALA:C	2.59	0.60
2:CB:54:LEU:HD12	2:CB:220:ALA:CB	2.31	0.60
2:CB:113:GLN:HA	2:CB:169:SER:O	2.01	0.60
2:CC:78:ALA:HA	2:CC:196:ILE:O	2.02	0.60
2:CC:115:ASN:ND2	3:Dn:190:ALA:C	2.60	0.60
2:CC:115:ASN:CA	3:Dn:119:LYS:HD2	2.31	0.60
2:CP:115:ASN:ND2	3:Dl:190:ALA:C	2.59	0.60
2:CS:113:GLN:HA	2:CS:169:SER:O	2.01	0.60
2:CX:78:ALA:HA	2:CX:196:ILE:O	2.01	0.60
2:CX:115:ASN:ND2	3:Dr:190:ALA:C	2.59	0.60
2:CY:115:ASN:ND2	3:DZ:190:ALA:C	2.59	0.60
2:CZ:15:GLU:HG3	2:CZ:29:SER:CB	2.30	0.60
2:CZ:54:LEU:HD12	2:CZ:220:ALA:CB	2.31	0.60
2:Cb:18:VAL:HG13	2:Cb:23:ILE:HG13	1.82	0.60
2:Cf:27:GLN:HG3	2:Cf:28:GLY:N	2.17	0.60
2:Cg:103:LEU:CD2	3:Dh:163:PRO:HD3	2.31	0.60
2:Cl:78:ALA:HA	2:Cl:196:ILE:O	2.01	0.60
2:Cp:54:LEU:HD12	2:Cp:220:ALA:CB	2.31	0.60
2:Cp:207:GLN:HE22	3:D0:192:THR:HA	1.65	0.60
2:Cq:115:ASN:ND2	3:DY:190:ALA:C	2.59	0.60
2:Cr:15:GLU:HG3	2:Cr:29:SER:CB	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cx:113:GLN:HA	2:Cx:169:SER:O	2.01	0.60
3:D2:100:TYR:CE2	3:D2:167:MET:HB2	2.37	0.60
3:D4:160:TYR:OH	3:D4:167:MET:HG2	2.01	0.60
3:Dk:14:PHE:O	3:Dk:15:MET:HB2	2.02	0.60
3:Dm:100:TYR:CE1	3:Dm:167:MET:HB2	2.37	0.60
3:Do:14:PHE:O	3:Do:15:MET:HB2	2.01	0.60
3:Dq:27:PRO:HB3	4:Fq:30:TYR:HA	1.82	0.60
3:EB:14:PHE:O	3:EB:15:MET:HB2	2.02	0.60
3:ED:42:ASN:HD22	3:ED:44:ILE:HG22	1.65	0.60
4:FK:25:PHE:HD2	4:FK:26:TYR:CE1	2.19	0.60
4:FS:25:PHE:HD2	4:FS:26:TYR:CE1	2.19	0.60
4:Fj:25:PHE:HD2	4:Fj:26:TYR:CE1	2.19	0.60
4:Fx:25:PHE:HD2	4:Fx:26:TYR:CE1	2.19	0.60
1:A0:173:GLY:CA	2:C1:188:LEU:O	2.50	0.60
1:A0:223:PRO:HD3	2:C1:158:PHE:CZ	2.37	0.60
1:A3:86:ILE:N	1:A3:86:ILE:CD1	2.65	0.60
1:A3:88:PHE:CE2	1:A3:146:ILE:HG21	2.37	0.60
1:A6:224:ILE:HG13	3:D7:89:TYR:CE1	2.37	0.60
1:A7:86:ILE:N	1:A7:86:ILE:CD1	2.65	0.60
1:A9:224:ILE:HG13	3:Da:89:TYR:CE1	2.37	0.60
1:AA:173:GLY:CA	2:CA:188:LEU:O	2.50	0.60
1:AB:102:VAL:HG22	1:AB:199:SER:CB	2.31	0.60
1:AD:88:PHE:CE2	1:AD:146:ILE:HG21	2.37	0.60
1:AG:86:ILE:N	1:AG:86:ILE:CD1	2.65	0.60
1:AG:209:LEU:CD1	1:AG:210:ARG:H	2.15	0.60
1:AK:19:LEU:HB2	2:CO:48:SER:HB2	1.82	0.60
1:AK:38:PHE:HD1	1:AO:137:GLY:HA2	1.65	0.60
1:AL:5:GLY:O	1:AL:6:GLU:HB3	2.01	0.60
1:AL:115:THR:HG22	1:AL:131:GLN:OE1	2.02	0.60
1:AL:173:GLY:CA	2:CL:188:LEU:O	2.50	0.60
1:AN:5:GLY:O	1:AN:6:GLU:HB3	2.01	0.60
1:AN:173:GLY:CA	2:CN:188:LEU:O	2.50	0.60
1:AP:136:ALA:H	1:AQ:39:ASP:HB2	1.67	0.60
1:AQ:88:PHE:CE1	1:AQ:205:GLY:CA	2.81	0.60
1:AQ:223:PRO:HD3	2:CQ:158:PHE:CZ	2.37	0.60
1:AR:223:PRO:HD3	2:CR:158:PHE:CZ	2.37	0.60
1:AS:19:LEU:HB2	2:CS:48:SER:HB2	1.82	0.60
1:AT:39:ASP:HB2	1:AX:136:ALA:H	1.67	0.60
1:AT:115:THR:HG22	1:AT:131:GLN:OE1	2.02	0.60
1:AT:209:LEU:O	1:AT:210:ARG:HG2	2.01	0.60
1:AT:224:ILE:HG13	3:DU:89:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:115:THR:HG22	1:AY:131:GLN:OE1	2.02	0.60
1:Aa:5:GLY:O	1:Aa:6:GLU:HB3	2.01	0.60
1:Ad:224:ILE:HG13	3:Df:89:TYR:CE1	2.37	0.60
1:Ae:173:GLY:CA	2:Cg:188:LEU:O	2.50	0.60
1:Ag:88:PHE:CE2	1:Ag:146:ILE:HG21	2.37	0.60
1:Ah:173:GLY:CA	2:Cj:188:LEU:O	2.50	0.60
1:Ah:209:LEU:CD1	1:Ah:210:ARG:H	2.15	0.60
1:Ah:223:PRO:HD3	2:Cj:158:PHE:CZ	2.37	0.60
1:Aj:223:PRO:HD3	2:Cl:158:PHE:CZ	2.37	0.60
1:Ak:209:LEU:CD1	1:Ak:210:ARG:H	2.15	0.60
1:Ao:173:GLY:CA	2:CS:188:LEU:O	2.50	0.60
1:BC:224:ILE:HG13	3:Dr:89:TYR:CE1	2.37	0.60
1:BE:209:LEU:O	1:BE:210:ARG:HG2	2.01	0.60
1:BG:115:THR:HG22	1:BG:131:GLN:OE1	2.02	0.60
2:C1:27:GLN:HG3	2:C1:28:GLY:N	2.17	0.60
2:C1:36:TYR:HE2	2:C1:130:PRO:CG	2.15	0.60
2:C1:103:LEU:CD2	3:D2:163:PRO:HD3	2.30	0.60
2:C2:78:ALA:HA	2:C2:196:ILE:O	2.02	0.60
2:C2:110:VAL:HG12	2:C2:215:VAL:HA	1.83	0.60
2:C5:55:GLY:HA3	2:CF:52:THR:HG23	1.84	0.60
2:CG:213:MET:CE	2:CG:215:VAL:HG22	2.30	0.60
2:CI:54:LEU:HD12	2:CI:220:ALA:CB	2.31	0.60
2:CJ:113:GLN:HA	2:CJ:169:SER:O	2.01	0.60
2:CK:213:MET:CE	2:CK:215:VAL:HG22	2.30	0.60
2:CL:27:GLN:HG3	2:CL:28:GLY:N	2.17	0.60
2:CM:15:GLU:HG3	2:CM:29:SER:CB	2.30	0.60
2:CM:54:LEU:HD12	2:CM:220:ALA:CB	2.31	0.60
2:CO:52:THR:HG23	2:CT:55:GLY:HA3	1.84	0.60
2:CO:55:GLY:HA3	2:CT:52:THR:HG23	1.84	0.60
2:CU:52:THR:HG23	2:Cf:55:GLY:HA3	1.84	0.60
2:CU:115:ASN:ND2	3:Dg:190:ALA:C	2.59	0.60
2:Cd:27:GLN:HG3	2:Cd:28:GLY:N	2.17	0.60
2:Cf:15:GLU:HG3	2:Cf:29:SER:CB	2.30	0.60
2:Cf:18:VAL:HG13	2:Cf:23:ILE:HG13	1.82	0.60
2:Cf:78:ALA:HA	2:Cf:196:ILE:O	2.02	0.60
2:Cg:115:ASN:CA	3:D3:119:LYS:HD2	2.31	0.60
2:Ck:110:VAL:HG12	2:Ck:215:VAL:HA	1.83	0.60
2:Cn:110:VAL:HG12	2:Cn:215:VAL:HA	1.83	0.60
2:Cn:115:ASN:CA	3:De:119:LYS:HD2	2.31	0.60
2:Co:54:LEU:HD12	2:Co:220:ALA:CB	2.31	0.60
2:Cr:115:ASN:ND2	3:DI:189:THR:O	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cs:115:ASN:ND2	3:EA:189:THR:O	2.35	0.60
2:Cu:15:GLU:HG3	2:Cu:29:SER:CB	2.30	0.60
2:Cv:78:ALA:HA	2:Cv:196:ILE:O	2.02	0.60
2:Cv:110:VAL:HG12	2:Cv:215:VAL:HA	1.83	0.60
2:Cw:27:GLN:HG3	2:Cw:28:GLY:N	2.17	0.60
3:DL:53:PHE:CE2	3:DL:205:LEU:HB3	2.31	0.60
3:DX:14:PHE:O	3:DX:15:MET:HB2	2.02	0.60
3:DZ:27:PRO:HB3	4:FZ:30:TYR:HA	1.81	0.60
3:Dh:14:PHE:O	3:Dh:15:MET:HB2	2.02	0.60
3:Di:100:TYR:CE2	3:Di:167:MET:HB2	2.37	0.60
4:Fm:25:PHE:HD2	4:Fm:26:TYR:CE1	2.19	0.60
4:Fq:25:PHE:HD2	4:Fq:26:TYR:CE1	2.19	0.60
1:A0:115:THR:HG22	1:A0:131:GLN:OE1	2.02	0.60
1:A0:224:ILE:HG13	3:D1:89:TYR:CE1	2.37	0.60
1:A2:88:PHE:CE2	1:A2:146:ILE:HG21	2.37	0.60
1:A3:102:VAL:HG22	1:A3:199:SER:CB	2.31	0.60
1:A6:115:THR:HG22	1:A6:131:GLN:OE1	2.02	0.60
1:A7:130:ILE:HD11	1:A7:135:VAL:CG1	2.30	0.60
1:A8:86:ILE:N	1:A8:86:ILE:CD1	2.65	0.60
1:A9:115:THR:HG22	1:A9:131:GLN:OE1	2.02	0.60
1:AA:19:LEU:HB2	2:CE:48:SER:HB2	1.82	0.60
1:AA:209:LEU:CD1	1:AA:210:ARG:H	2.15	0.60
1:AB:121:LEU:CD2	1:AC:207:CYS:H	2.12	0.60
1:AB:223:PRO:HD3	2:CB:158:PHE:CZ	2.37	0.60
1:AC:5:GLY:O	1:AC:6:GLU:HB3	2.02	0.60
1:AD:136:ALA:H	1:AE:39:ASP:HB2	1.67	0.60
1:AF:19:LEU:HB2	2:CJ:48:SER:HB2	1.82	0.60
1:AF:115:THR:HG22	1:AF:131:GLN:OE1	2.02	0.60
1:AH:223:PRO:HD3	2:CH:158:PHE:CZ	2.37	0.60
1:AI:86:ILE:N	1:AI:86:ILE:CD1	2.65	0.60
1:AI:224:ILE:HG13	3:DI:89:TYR:CE1	2.37	0.60
1:AJ:102:VAL:HG22	1:AJ:199:SER:CB	2.30	0.60
1:AN:86:ILE:N	1:AN:86:ILE:CD1	2.65	0.60
1:AP:5:GLY:O	1:AP:6:GLU:HB3	2.01	0.60
1:AQ:115:THR:HG22	1:AQ:131:GLN:OE1	2.02	0.60
1:AS:223:PRO:HD3	2:CT:158:PHE:CZ	2.37	0.60
1:AU:209:LEU:CD1	1:AU:210:ARG:H	2.15	0.60
1:AV:223:PRO:HD3	2:CW:158:PHE:CZ	2.37	0.60
1:AW:19:LEU:HB2	2:CW:48:SER:HB2	1.82	0.60
1:AW:224:ILE:HG13	3:DX:89:TYR:CE1	2.37	0.60
1:AX:223:PRO:HD3	2:CY:158:PHE:CZ	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:102:VAL:HG22	1:AZ:199:SER:CB	2.30	0.60
1:Ad:223:PRO:HD3	2:Cf:158:PHE:CZ	2.37	0.60
1:Ae:86:ILE:N	1:Ae:86:ILE:CD1	2.65	0.60
1:Af:88:PHE:CE2	1:Af:146:ILE:HG21	2.37	0.60
1:Af:173:GLY:CA	2:Ch:188:LEU:O	2.50	0.60
1:Ak:88:PHE:CE2	1:Ak:146:ILE:HG21	2.37	0.60
1:Am:115:THR:HG22	1:Am:131:GLN:OE1	2.02	0.60
1:Am:173:GLY:CA	2:Co:188:LEU:O	2.50	0.60
1:BA:115:THR:HG22	1:BA:131:GLN:OE1	2.02	0.60
1:BB:86:ILE:N	1:BB:86:ILE:CD1	2.65	0.60
1:BE:86:ILE:N	1:BE:86:ILE:CD1	2.65	0.60
1:BE:136:ALA:H	1:BF:39:ASP:HB2	1.67	0.60
1:BF:115:THR:HG22	1:BF:131:GLN:OE1	2.02	0.60
2:C3:115:ASN:ND2	3:DU:190:ALA:C	2.59	0.60
2:C4:78:ALA:HA	2:C4:196:ILE:O	2.02	0.60
2:C7:55:GLY:HA3	2:Cl:52:THR:HG23	1.84	0.60
2:C7:110:VAL:HG12	2:C7:215:VAL:HA	1.83	0.60
2:CD:54:LEU:HD12	2:CD:220:ALA:CB	2.31	0.60
2:CD:115:ASN:ND2	3:D7:190:ALA:C	2.59	0.60
2:CE:115:ASN:CA	3:DF:119:LYS:HD2	2.31	0.60
2:CF:54:LEU:HD12	2:CF:220:ALA:CB	2.31	0.60
2:CH:27:GLN:HG3	2:CH:28:GLY:N	2.17	0.60
2:CH:115:ASN:ND2	3:Ds:190:ALA:C	2.59	0.60
2:CK:52:THR:HG23	2:Ca:55:GLY:HA3	1.84	0.60
2:CR:36:TYR:HE2	2:CR:130:PRO:CG	2.15	0.60
2:CR:103:LEU:CD2	3:DS:163:PRO:HD3	2.31	0.60
2:CS:27:GLN:HG3	2:CS:28:GLY:N	2.17	0.60
2:CT:27:GLN:HG3	2:CT:28:GLY:N	2.17	0.60
2:CT:115:ASN:CA	3:DK:119:LYS:HD2	2.31	0.60
2:CV:27:GLN:HG3	2:CV:28:GLY:N	2.17	0.60
2:CY:36:TYR:HE2	2:CY:130:PRO:CG	2.15	0.60
2:CZ:55:GLY:HA3	2:Cp:52:THR:HG23	1.84	0.60
2:CZ:115:ASN:ND2	3:Dq:189:THR:O	2.35	0.60
2:Cb:27:GLN:HG3	2:Cb:28:GLY:N	2.17	0.60
2:Cc:18:VAL:HG13	2:Cc:23:ILE:HG13	1.82	0.60
2:Ce:27:GLN:HG3	2:Ce:28:GLY:N	2.17	0.60
2:Ci:55:GLY:HA3	2:Cn:52:THR:HG23	1.84	0.60
2:Ck:176:PRO:O	2:Ck:192:TRP:NE1	2.35	0.60
2:Ck:213:MET:CE	2:Ck:215:VAL:HG22	2.30	0.60
2:Cp:213:MET:CE	2:Cp:215:VAL:HG22	2.30	0.60
2:Cx:115:ASN:ND2	3:Do:189:THR:O	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D3:14:PHE:O	3:D3:15:MET:HB2	2.01	0.60
3:D8:100:TYR:CE2	3:D8:167:MET:HB2	2.37	0.60
3:DU:56:ILE:HD12	3:DU:56:ILE:N	2.17	0.60
3:DW:14:PHE:O	3:DW:15:MET:HB2	2.01	0.60
3:Dq:160:TYR:OH	3:Dq:167:MET:HG2	2.01	0.60
4:F5:25:PHE:HD2	4:F5:26:TYR:CE1	2.19	0.60
4:F8:25:PHE:HD2	4:F8:26:TYR:CE1	2.19	0.60
4:FC:25:PHE:HD2	4:FC:26:TYR:CE1	2.19	0.60
4:FX:25:PHE:HD2	4:FX:26:TYR:CE1	2.19	0.60
1:A3:223:PRO:HD3	2:C4:158:PHE:CZ	2.37	0.59
1:A4:173:GLY:HA3	2:C5:188:LEU:O	2.02	0.59
1:A6:223:PRO:HD3	2:C7:158:PHE:CZ	2.37	0.59
1:A7:209:LEU:O	1:A7:210:ARG:HG2	2.01	0.59
1:AD:173:GLY:HA3	2:CD:188:LEU:O	2.03	0.59
1:AD:209:LEU:CD1	1:AD:210:ARG:H	2.15	0.59
1:AF:39:ASP:HB2	1:AJ:136:ALA:H	1.67	0.59
1:AH:115:THR:HG22	1:AH:131:GLN:OE1	2.02	0.59
1:AI:88:PHE:CE2	1:AI:146:ILE:HG21	2.37	0.59
1:AI:102:VAL:HG22	1:AI:199:SER:CB	2.31	0.59
1:AI:115:THR:HG22	1:AI:131:GLN:OE1	2.02	0.59
1:AM:88:PHE:CE1	1:AM:205:GLY:CA	2.81	0.59
1:AM:115:THR:HG22	1:AM:131:GLN:OE1	2.02	0.59
1:AQ:102:VAL:HG22	1:AQ:199:SER:CB	2.31	0.59
1:AR:121:LEU:CD2	1:Ao:207:CYS:H	2.12	0.59
1:AR:224:ILE:HG13	3:DR:89:TYR:CE1	2.37	0.59
1:AW:130:ILE:HD11	1:AW:135:VAL:CG1	2.30	0.59
1:AX:130:ILE:HD11	1:AX:135:VAL:CG1	2.30	0.59
1:AY:224:ILE:HG13	3:DZ:89:TYR:CE1	2.36	0.59
1:Ab:173:GLY:CA	2:Cd:188:LEU:O	2.50	0.59
1:Ad:173:GLY:CA	2:Cf:188:LEU:O	2.50	0.59
1:Ak:121:LEU:CD2	1:Al:207:CYS:H	2.12	0.59
1:An:115:THR:HG22	1:An:131:GLN:OE1	2.02	0.59
1:An:223:PRO:HD3	2:Cb:158:PHE:CZ	2.37	0.59
1:BA:136:ALA:H	1:BB:39:ASP:HB2	1.67	0.59
1:BA:173:GLY:CA	2:Cp:188:LEU:O	2.50	0.59
1:BE:19:LEU:HB2	2:Cx:48:SER:HB2	1.82	0.59
1:BE:39:ASP:HB2	1:BI:136:ALA:H	1.67	0.59
1:BF:88:PHE:CE2	1:BF:146:ILE:HG21	2.37	0.59
2:C1:55:GLY:HA3	2:CN:52:THR:HG23	1.84	0.59
2:C2:54:LEU:HD12	2:C2:220:ALA:CB	2.31	0.59
2:C3:36:TYR:HE2	2:C3:130:PRO:CG	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C5:176:PRO:O	2:C5:192:TRP:NE1	2.35	0.59
2:C7:78:ALA:HA	2:C7:196:ILE:O	2.02	0.59
2:C9:115:ASN:C	3:Dl:119:LYS:HZ3	2.11	0.59
2:CA:78:ALA:HA	2:CA:196:ILE:O	2.02	0.59
2:CA:176:PRO:O	2:CA:192:TRP:NE1	2.35	0.59
2:CB:27:GLN:HG3	2:CB:28:GLY:N	2.17	0.59
2:CB:78:ALA:HA	2:CB:196:ILE:O	2.01	0.59
2:CB:115:ASN:ND2	3:Df:190:ALA:C	2.59	0.59
2:CC:18:VAL:HG13	2:CC:23:ILE:HG13	1.82	0.59
2:CC:52:THR:HG23	2:Cm:55:GLY:HA3	1.84	0.59
2:CF:36:TYR:HE2	2:CF:130:PRO:CG	2.15	0.59
2:CF:115:ASN:ND2	3:D6:190:ALA:C	2.60	0.59
2:CH:55:GLY:HA3	2:Cr:52:THR:HG23	1.84	0.59
2:CI:110:VAL:HG12	2:CI:215:VAL:HA	1.83	0.59
2:CK:115:ASN:ND2	3:Db:190:ALA:C	2.59	0.59
2:CM:110:VAL:HG12	2:CM:215:VAL:HA	1.83	0.59
2:CN:78:ALA:HA	2:CN:196:ILE:O	2.02	0.59
2:CN:207:GLN:HE22	3:D2:192:THR:HA	1.65	0.59
2:CP:207:GLN:HE22	3:D1:192:THR:HA	1.65	0.59
2:CQ:176:PRO:O	2:CQ:192:TRP:NE1	2.35	0.59
2:CW:110:VAL:HG12	2:CW:215:VAL:HA	1.83	0.59
2:CY:54:LEU:HD12	2:CY:220:ALA:CB	2.31	0.59
2:CZ:115:ASN:ND2	3:Dq:190:ALA:C	2.59	0.59
2:Cc:27:GLN:HG3	2:Cc:28:GLY:N	2.17	0.59
2:Ci:27:GLN:HG3	2:Ci:28:GLY:N	2.17	0.59
2:CI:115:ASN:ND2	3:Dj:190:ALA:C	2.59	0.59
2:Ck:115:ASN:CA	3:Da:119:LYS:HD2	2.31	0.59
2:Cl:27:GLN:HG3	2:Cl:28:GLY:N	2.17	0.59
2:Cn:176:PRO:O	2:Cn:192:TRP:NE1	2.35	0.59
2:Co:78:ALA:HA	2:Co:196:ILE:O	2.02	0.59
2:Cp:110:VAL:HG12	2:Cp:215:VAL:HA	1.83	0.59
2:Cp:115:ASN:ND2	3:D0:190:ALA:C	2.59	0.59
2:Cr:176:PRO:O	2:Cr:192:TRP:NE1	2.36	0.59
2:Cs:78:ALA:HA	2:Cs:196:ILE:O	2.02	0.59
2:Cu:18:VAL:HG13	2:Cu:23:ILE:HG13	1.82	0.59
2:Cu:78:ALA:HA	2:Cu:196:ILE:O	2.01	0.59
2:Cu:115:ASN:ND2	3:D5:189:THR:O	2.35	0.59
2:Cv:54:LEU:HD12	2:Cv:220:ALA:CB	2.31	0.59
2:Cv:115:ASN:ND2	3:Dd:189:THR:O	2.35	0.59
2:Cx:27:GLN:HG3	2:Cx:28:GLY:N	2.17	0.59
3:D4:14:PHE:O	3:D4:15:MET:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D6:14:PHE:O	3:D6:15:MET:HB2	2.01	0.59
3:DE:14:PHE:O	3:DE:15:MET:HB2	2.01	0.59
3:DF:100:TYR:CE2	3:DF:167:MET:HB2	2.37	0.59
3:DH:14:PHE:O	3:DH:15:MET:HB2	2.02	0.59
3:DI:14:PHE:O	3:DI:15:MET:HB2	2.02	0.59
3:DJ:27:PRO:HB3	4:FJ:30:TYR:HA	1.82	0.59
3:DN:100:TYR:CE1	3:DN:167:MET:HB2	2.37	0.59
3:DO:42:ASN:HD22	3:DO:44:ILE:HG22	1.65	0.59
3:DO:100:TYR:CE2	3:DO:167:MET:HB2	2.37	0.59
3:DT:100:TYR:CE1	3:DT:167:MET:HB2	2.37	0.59
3:DU:160:TYR:OH	3:DU:167:MET:HG2	2.01	0.59
3:Da:14:PHE:O	3:Da:15:MET:HB2	2.02	0.59
3:Da:100:TYR:CE1	3:Da:167:MET:HB2	2.37	0.59
3:Dc:100:TYR:CE2	3:Dc:167:MET:HB2	2.37	0.59
3:Dh:100:TYR:CE2	3:Dh:167:MET:HB2	2.37	0.59
3:ED:100:TYR:CE1	3:ED:167:MET:HB2	2.37	0.59
3:EE:14:PHE:O	3:EE:15:MET:HB2	2.02	0.59
3:EE:56:ILE:HD12	3:EE:56:ILE:N	2.18	0.59
4:FN:25:PHE:HD2	4:FN:26:TYR:CE1	2.19	0.59
4:FZ:25:PHE:HD2	4:FZ:26:TYR:CE1	2.19	0.59
4:Fs:25:PHE:HD2	4:Fs:26:TYR:CE1	2.19	0.59
1:A0:102:VAL:HG22	1:A0:199:SER:CB	2.31	0.59
1:A2:136:ALA:H	1:AY:39:ASP:HB2	1.67	0.59
1:A2:173:GLY:CA	2:C3:188:LEU:O	2.50	0.59
1:A4:5:GLY:O	1:A4:6:GLU:HB3	2.01	0.59
1:A4:88:PHE:CE2	1:A4:146:ILE:HG21	2.37	0.59
1:A5:130:ILE:HD11	1:A5:135:VAL:CG1	2.30	0.59
1:A7:187:LEU:CD2	1:A7:188:PRO:HD2	2.25	0.59
1:A8:173:GLY:HA3	2:C9:188:LEU:O	2.03	0.59
1:AB:19:LEU:HB2	2:CA:48:SER:HB2	1.82	0.59
1:AC:86:ILE:N	1:AC:86:ILE:CD1	2.65	0.59
1:AF:223:PRO:HD3	2:CF:158:PHE:CZ	2.37	0.59
1:AH:173:GLY:HA3	2:CH:188:LEU:O	2.03	0.59
1:AK:86:ILE:N	1:AK:86:ILE:CD1	2.65	0.59
1:AL:19:LEU:HB2	2:CK:48:SER:HB2	1.82	0.59
1:AL:136:ALA:H	1:AM:39:ASP:HB2	1.67	0.59
1:AL:173:GLY:HA3	2:CL:188:LEU:O	2.02	0.59
1:AM:209:LEU:O	1:AM:210:ARG:HG2	2.01	0.59
1:AN:130:ILE:HD11	1:AN:135:VAL:CG1	2.30	0.59
1:AO:173:GLY:HA3	2:CO:188:LEU:O	2.02	0.59
1:AP:115:THR:HG22	1:AP:131:GLN:OE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:136:ALA:H	1:AR:39:ASP:HB2	1.67	0.59
1:AV:121:LEU:CD2	1:AW:207:CYS:H	2.12	0.59
1:AX:224:ILE:HG13	3:DY:89:TYR:CE1	2.37	0.59
1:AY:173:GLY:CA	2:CZ:188:LEU:O	2.50	0.59
1:AZ:173:GLY:HA3	2:C0:188:LEU:O	2.03	0.59
1:Ab:19:LEU:HB2	2:Cc:48:SER:HB2	1.82	0.59
1:Ac:173:GLY:HA3	2:Ce:188:LEU:O	2.02	0.59
1:Ac:224:ILE:HG13	3:De:89:TYR:CE1	2.37	0.59
1:Ae:223:PRO:HD3	2:Cg:158:PHE:CZ	2.37	0.59
1:Ag:86:ILE:N	1:Ag:86:ILE:CD1	2.65	0.59
1:Ai:136:ALA:H	1:Aj:39:ASP:HB2	1.67	0.59
1:Aj:19:LEU:HB2	2:Ck:48:SER:HB2	1.82	0.59
1:Aj:136:ALA:H	1:Ak:39:ASP:HB2	1.67	0.59
1:Am:209:LEU:O	1:Am:210:ARG:HG2	2.01	0.59
1:Ao:5:GLY:O	1:Ao:6:GLU:HB3	2.01	0.59
1:Ao:173:GLY:HA3	2:CS:188:LEU:O	2.03	0.59
1:BB:115:THR:HG22	1:BB:131:GLN:OE1	2.02	0.59
1:BD:88:PHE:CE2	1:BD:146:ILE:HG21	2.37	0.59
1:BH:86:ILE:N	1:BH:86:ILE:CD1	2.65	0.59
1:BI:115:THR:HG22	1:BI:131:GLN:OE1	2.02	0.59
2:C0:27:GLN:HG3	2:C0:28:GLY:N	2.17	0.59
2:C0:110:VAL:HG12	2:C0:215:VAL:HA	1.83	0.59
2:C2:176:PRO:O	2:C2:192:TRP:NE1	2.35	0.59
2:C3:55:GLY:HA3	2:CY:52:THR:HG23	1.84	0.59
2:C3:78:ALA:HA	2:C3:196:ILE:O	2.02	0.59
2:C3:115:ASN:ND2	3:DU:189:THR:O	2.35	0.59
2:C3:115:ASN:C	3:DU:119:LYS:HZ3	2.09	0.59
2:C4:36:TYR:HE2	2:C4:130:PRO:CG	2.15	0.59
2:C6:115:ASN:ND2	3:DE:189:THR:O	2.35	0.59
2:C8:115:ASN:CA	3:D9:119:LYS:HD2	2.31	0.59
2:C9:52:THR:HG23	2:Ck:55:GLY:HA3	1.84	0.59
2:C9:55:GLY:HA3	2:Ck:52:THR:HG23	1.84	0.59
2:CB:36:TYR:HE2	2:CB:130:PRO:CG	2.15	0.59
2:CF:207:GLN:HE22	3:D6:192:THR:HA	1.65	0.59
2:CG:115:ASN:ND2	3:EB:189:THR:O	2.35	0.59
2:CG:176:PRO:O	2:CG:192:TRP:NE1	2.35	0.59
2:CH:15:GLU:HG3	2:CH:29:SER:CB	2.30	0.59
2:CH:78:ALA:HA	2:CH:196:ILE:O	2.01	0.59
2:CH:110:VAL:HG12	2:CH:215:VAL:HA	1.83	0.59
2:CI:78:ALA:HA	2:CI:196:ILE:O	2.01	0.59
2:CJ:176:PRO:O	2:CJ:192:TRP:NE1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:176:PRO:O	2:CL:192:TRP:NE1	2.36	0.59
2:CM:115:ASN:ND2	3:Di:189:THR:O	2.35	0.59
2:CM:115:ASN:CA	3:Di:119:LYS:HD2	2.31	0.59
2:CR:176:PRO:O	2:CR:192:TRP:NE1	2.36	0.59
2:CT:115:ASN:ND2	3:DK:189:THR:O	2.35	0.59
2:CU:54:LEU:HD12	2:CU:220:ALA:CB	2.31	0.59
2:CW:115:ASN:ND2	3:DJ:189:THR:O	2.35	0.59
2:Cc:78:ALA:HA	2:Cc:196:ILE:O	2.02	0.59
2:Ce:36:TYR:HE2	2:Ce:130:PRO:CG	2.15	0.59
2:Cg:78:ALA:HA	2:Cg:196:ILE:O	2.01	0.59
2:Ci:78:ALA:HA	2:Ci:196:ILE:O	2.02	0.59
2:Ck:27:GLN:HG3	2:Ck:28:GLY:N	2.17	0.59
2:Cp:36:TYR:HE2	2:Cp:130:PRO:CG	2.15	0.59
2:Cq:115:ASN:ND2	3:DY:189:THR:O	2.35	0.59
2:Cr:36:TYR:HE2	2:Cr:130:PRO:CG	2.15	0.59
2:Cr:113:GLN:HA	2:Cr:169:SER:O	2.01	0.59
2:Cu:27:GLN:HG3	2:Cu:28:GLY:N	2.17	0.59
3:D0:100:TYR:CE1	3:D0:167:MET:HB2	2.37	0.59
3:D3:160:TYR:OH	3:D3:167:MET:HG2	2.01	0.59
3:D4:100:TYR:CE2	3:D4:167:MET:HB2	2.37	0.59
3:DO:56:ILE:HD12	3:DO:56:ILE:N	2.18	0.59
3:DR:100:TYR:CE2	3:DR:167:MET:HB2	2.37	0.59
3:Db:56:ILE:HD12	3:Db:56:ILE:N	2.18	0.59
3:Dd:100:TYR:CE1	3:Dd:167:MET:HB2	2.37	0.59
3:De:56:ILE:HD12	3:De:56:ILE:N	2.17	0.59
3:De:100:TYR:CE1	3:De:167:MET:HB2	2.37	0.59
3:Df:100:TYR:CE1	3:Df:167:MET:HB2	2.37	0.59
3:Dl:100:TYR:CE2	3:Dl:167:MET:HB2	2.37	0.59
3:Dp:14:PHE:O	3:Dp:15:MET:HB2	2.02	0.59
3:Dq:100:TYR:CE2	3:Dq:167:MET:HB2	2.37	0.59
3:EC:100:TYR:CE2	3:EC:167:MET:HB2	2.37	0.59
1:A0:19:LEU:HB2	2:C0:48:SER:HB2	1.83	0.59
1:A3:136:ALA:H	1:A4:39:ASP:HB2	1.67	0.59
1:A5:209:LEU:O	1:A5:210:ARG:HG2	2.01	0.59
1:A6:130:ILE:HD11	1:A6:135:VAL:CG1	2.30	0.59
1:A7:115:THR:HG22	1:A7:131:GLN:OE1	2.02	0.59
1:A9:86:ILE:N	1:A9:86:ILE:CD1	2.65	0.59
1:AA:223:PRO:HD3	2:CA:158:PHE:CZ	2.37	0.59
1:AE:130:ILE:HD11	1:AE:135:VAL:CG1	2.30	0.59
1:AH:173:GLY:CA	2:CH:188:LEU:O	2.50	0.59
1:AI:5:GLY:O	1:AI:6:GLU:HB3	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:88:PHE:CE2	1:AJ:146:ILE:HG21	2.36	0.59
1:AM:209:LEU:CD1	1:AM:210:ARG:H	2.15	0.59
1:AR:173:GLY:HA3	2:CR:188:LEU:O	2.02	0.59
1:AR:209:LEU:O	1:AR:210:ARG:HG2	2.01	0.59
1:AS:173:GLY:HA3	2:CT:188:LEU:O	2.03	0.59
1:AS:173:GLY:CA	2:CT:188:LEU:O	2.50	0.59
1:AT:209:LEU:CD1	1:AT:210:ARG:H	2.15	0.59
1:AW:173:GLY:CA	2:CX:188:LEU:O	2.50	0.59
1:AZ:88:PHE:CE2	1:AZ:146:ILE:HG21	2.37	0.59
1:Aa:137:GLY:HA2	1:Ab:38:PHE:HD1	1.65	0.59
1:Ac:223:PRO:HD3	2:Ce:158:PHE:CZ	2.37	0.59
1:Ae:115:THR:HG22	1:Ae:131:GLN:OE1	2.02	0.59
1:Ae:121:LEU:CD2	1:Af:207:CYS:H	2.12	0.59
1:Af:115:THR:HG22	1:Af:131:GLN:OE1	2.02	0.59
1:Af:223:PRO:HD3	2:Ch:158:PHE:CZ	2.37	0.59
1:Ah:115:THR:HG22	1:Ah:131:GLN:OE1	2.02	0.59
1:Ai:173:GLY:CA	2:Ck:188:LEU:O	2.50	0.59
1:Ai:209:LEU:CD1	1:Ai:210:ARG:H	2.15	0.59
1:Aj:209:LEU:O	1:Aj:210:ARG:HG2	2.01	0.59
1:Ak:115:THR:HG22	1:Ak:131:GLN:OE1	2.02	0.59
1:BA:209:LEU:CD1	1:BA:210:ARG:H	2.15	0.59
1:BB:173:GLY:CA	2:Cq:188:LEU:O	2.50	0.59
1:BD:86:ILE:N	1:BD:86:ILE:CD1	2.65	0.59
1:BF:102:VAL:HG22	1:BF:199:SER:CB	2.30	0.59
1:BH:115:THR:HG22	1:BH:131:GLN:OE1	2.02	0.59
2:C4:115:ASN:ND2	3:EC:190:ALA:C	2.59	0.59
2:C5:36:TYR:HE2	2:C5:130:PRO:CG	2.15	0.59
2:C9:115:ASN:ND2	3:Dl:189:THR:O	2.35	0.59
2:CB:115:ASN:ND2	3:Df:189:THR:O	2.35	0.59
2:CD:27:GLN:HG3	2:CD:28:GLY:N	2.17	0.59
2:CN:27:GLN:HG3	2:CN:28:GLY:N	2.17	0.59
2:CN:115:ASN:ND2	3:D2:189:THR:O	2.35	0.59
2:CP:27:GLN:HG3	2:CP:28:GLY:N	2.17	0.59
2:CP:115:ASN:ND2	3:D1:189:THR:O	2.35	0.59
2:CQ:78:ALA:HA	2:CQ:196:ILE:O	2.02	0.59
2:CR:52:THR:HG23	2:Cw:55:GLY:HA3	1.84	0.59
2:CR:207:GLN:HE22	3:EE:192:THR:HA	1.65	0.59
2:CX:27:GLN:HG3	2:CX:28:GLY:N	2.17	0.59
2:CX:115:ASN:ND2	3:Dr:189:THR:O	2.35	0.59
2:CY:27:GLN:HG3	2:CY:28:GLY:N	2.17	0.59
2:CY:115:ASN:ND2	3:DZ:189:THR:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cb:176:PRO:O	2:Cb:192:TRP:NE1	2.35	0.59
2:Cd:115:ASN:CA	3:D4:119:LYS:HD2	2.31	0.59
2:Ch:27:GLN:HG3	2:Ch:28:GLY:N	2.17	0.59
2:Ci:110:VAL:HG12	2:Ci:215:VAL:HA	1.83	0.59
2:Co:176:PRO:O	2:Co:192:TRP:NE1	2.35	0.59
2:Ct:115:ASN:ND2	3:DH:189:THR:O	2.35	0.59
2:Cu:36:TYR:HE2	2:Cu:130:PRO:CG	2.15	0.59
2:Cu:54:LEU:HD12	2:Cu:220:ALA:CB	2.31	0.59
2:Cu:103:LEU:CD2	3:EC:163:PRO:HD3	2.31	0.59
3:D2:56:ILE:HD12	3:D2:56:ILE:N	2.18	0.59
3:D3:56:ILE:HD12	3:D3:56:ILE:N	2.18	0.59
3:D4:56:ILE:HD12	3:D4:56:ILE:N	2.18	0.59
3:DA:100:TYR:CE2	3:DA:167:MET:HB2	2.37	0.59
3:DC:14:PHE:O	3:DC:15:MET:HB2	2.02	0.59
3:DG:56:ILE:HD12	3:DG:56:ILE:N	2.18	0.59
3:DR:56:ILE:HD12	3:DR:56:ILE:N	2.18	0.59
3:DU:100:TYR:CE1	3:DU:167:MET:HB2	2.37	0.59
3:DW:56:ILE:HD12	3:DW:56:ILE:N	2.17	0.59
3:Da:42:ASN:HD22	3:Da:44:ILE:HG22	1.65	0.59
3:Df:14:PHE:O	3:Df:15:MET:HB2	2.02	0.59
3:Dh:53:PHE:CE2	3:Dh:205:LEU:HB3	2.31	0.59
3:Dm:14:PHE:O	3:Dm:15:MET:HB2	2.02	0.59
3:Dq:14:PHE:O	3:Dq:15:MET:HB2	2.01	0.59
3:Dr:56:ILE:HD12	3:Dr:56:ILE:N	2.18	0.59
3:EC:14:PHE:O	3:EC:15:MET:HB2	2.02	0.59
3:EC:56:ILE:HD12	3:EC:56:ILE:N	2.17	0.59
4:FE:25:PHE:HD2	4:FE:26:TYR:CE1	2.19	0.59
4:FJ:25:PHE:HD2	4:FJ:26:TYR:CE1	2.19	0.59
1:A0:5:GLY:O	1:A0:6:GLU:HB3	2.01	0.59
1:A0:209:LEU:CD1	1:A0:210:ARG:H	2.15	0.59
1:A2:5:GLY:O	1:A2:6:GLU:HB3	2.01	0.59
1:A5:88:PHE:CE2	1:A5:146:ILE:HG21	2.37	0.59
1:A5:115:THR:HG22	1:A5:131:GLN:OE1	2.02	0.59
1:A5:173:GLY:CA	2:C6:188:LEU:O	2.50	0.59
1:A6:19:LEU:HB2	2:C6:48:SER:HB2	1.82	0.59
1:A8:88:PHE:CE1	1:A8:205:GLY:CA	2.81	0.59
1:A8:209:LEU:O	1:A8:210:ARG:HG2	2.01	0.59
1:AA:39:ASP:HB2	1:AE:136:ALA:H	1.67	0.59
1:AJ:19:LEU:HB2	2:CI:48:SER:HB2	1.82	0.59
1:AK:39:ASP:HB2	1:AO:136:ALA:H	1.67	0.59
1:AK:223:PRO:HD3	2:CK:158:PHE:CZ	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:223:PRO:HD3	2:CL:158:PHE:CZ	2.37	0.59
1:AO:40:VAL:O	1:AO:41:GLU:HB2	2.03	0.59
1:AO:115:THR:HG22	1:AO:131:GLN:OE1	2.02	0.59
1:AP:223:PRO:HD3	2:CP:158:PHE:CZ	2.37	0.59
1:AR:115:THR:HG22	1:AR:131:GLN:OE1	2.02	0.59
1:AS:115:THR:HG22	1:AS:131:GLN:OE1	2.02	0.59
1:AS:130:ILE:HD11	1:AS:135:VAL:CG1	2.30	0.59
1:AT:136:ALA:H	1:AU:39:ASP:HB2	1.67	0.59
1:AU:173:GLY:CA	2:CV:188:LEU:O	2.50	0.59
1:AV:115:THR:HG22	1:AV:131:GLN:OE1	2.02	0.59
1:AW:173:GLY:HA3	2:CX:188:LEU:O	2.03	0.59
1:AY:88:PHE:CE2	1:AY:146:ILE:HG21	2.37	0.59
1:AY:173:GLY:HA3	2:CZ:188:LEU:O	2.03	0.59
1:AZ:173:GLY:CA	2:C0:188:LEU:O	2.50	0.59
1:Aa:86:ILE:N	1:Aa:86:ILE:CD1	2.65	0.59
1:Aa:136:ALA:H	1:Ab:39:ASP:HB2	1.67	0.59
1:Aa:173:GLY:HA3	2:Cc:188:LEU:O	2.03	0.59
1:Ac:5:GLY:O	1:Ac:6:GLU:HB3	2.01	0.59
1:Ad:115:THR:HG22	1:Ad:131:GLN:OE1	2.02	0.59
1:Ad:173:GLY:HA3	2:Cf:188:LEU:O	2.03	0.59
1:Ah:173:GLY:HA3	2:Cj:188:LEU:O	2.02	0.59
1:Ai:19:LEU:HB2	2:Cj:48:SER:HB2	1.82	0.59
1:Ak:5:GLY:O	1:Ak:6:GLU:HB3	2.01	0.59
1:Al:115:THR:HG22	1:Al:131:GLN:OE1	2.02	0.59
1:Al:173:GLY:HA3	2:Cn:188:LEU:O	2.02	0.59
1:Al:223:PRO:HD3	2:Cn:158:PHE:CZ	2.37	0.59
1:Am:136:ALA:H	1:BA:39:ASP:HB2	1.67	0.59
1:BE:88:PHE:CE2	1:BE:146:ILE:HG21	2.37	0.59
1:BF:209:LEU:CD1	1:BF:210:ARG:H	2.15	0.59
1:BG:173:GLY:CA	2:Cv:188:LEU:O	2.50	0.59
2:C0:55:GLY:HA3	2:CP:52:THR:HG23	1.84	0.59
2:C0:213:MET:CE	2:C0:215:VAL:HG22	2.30	0.59
2:C7:15:GLU:HG3	2:C7:29:SER:CB	2.30	0.59
2:C8:15:GLU:HG3	2:C8:29:SER:CB	2.30	0.59
2:C9:27:GLN:HG3	2:C9:28:GLY:N	2.17	0.59
2:CA:52:THR:HG23	2:CV:55:GLY:HA3	1.84	0.59
2:CB:52:THR:HG23	2:Ce:55:GLY:HA3	1.84	0.59
2:CC:36:TYR:HE2	2:CC:130:PRO:CG	2.15	0.59
2:CC:103:LEU:CD2	3:DD:163:PRO:HD3	2.31	0.59
2:CC:115:ASN:ND2	3:Dn:189:THR:O	2.35	0.59
2:CD:36:TYR:HE2	2:CD:130:PRO:CG	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:110:VAL:HG12	2:CD:215:VAL:HA	1.83	0.59
2:CG:52:THR:HG23	2:Ct:55:GLY:HA3	1.84	0.59
2:CH:176:PRO:O	2:CH:192:TRP:NE1	2.35	0.59
2:CK:78:ALA:HA	2:CK:196:ILE:O	2.01	0.59
2:CK:176:PRO:O	2:CK:192:TRP:NE1	2.36	0.59
2:CN:110:VAL:HG12	2:CN:215:VAL:HA	1.83	0.59
2:CO:115:ASN:ND2	3:DP:189:THR:O	2.35	0.59
2:CO:176:PRO:O	2:CO:192:TRP:NE1	2.35	0.59
2:CP:36:TYR:HE2	2:CP:130:PRO:CG	2.15	0.59
2:CQ:55:GLY:HA3	2:Co:52:THR:HG23	1.84	0.59
2:CR:78:ALA:HA	2:CR:196:ILE:O	2.02	0.59
2:CS:52:THR:HG23	2:Cb:55:GLY:HA3	1.84	0.59
2:CT:36:TYR:HE2	2:CT:130:PRO:CG	2.15	0.59
2:CW:27:GLN:HG3	2:CW:28:GLY:N	2.17	0.59
2:CW:115:ASN:CA	3:DJ:119:LYS:HD2	2.31	0.59
2:Ch:36:TYR:HE2	2:Ch:130:PRO:CG	2.15	0.59
2:Ck:115:ASN:ND2	3:Da:189:THR:O	2.35	0.59
2:Co:103:LEU:CD2	3:Dp:163:PRO:HD3	2.31	0.59
2:Cq:27:GLN:HG3	2:Cq:28:GLY:N	2.17	0.59
2:Cs:176:PRO:O	2:Cs:192:TRP:NE1	2.35	0.59
2:Ct:36:TYR:HE2	2:Ct:130:PRO:CG	2.15	0.59
2:Cu:110:VAL:HG12	2:Cu:215:VAL:HA	1.83	0.59
3:D9:100:TYR:CE2	3:D9:167:MET:HB2	2.37	0.59
3:DH:80:LEU:HD12	3:DH:80:LEU:N	2.18	0.59
3:DI:56:ILE:HD12	3:DI:56:ILE:N	2.17	0.59
3:DM:42:ASN:HD22	3:DM:44:ILE:H	1.46	0.59
3:DP:94:SER:HB3	3:DP:169:VAL:HG13	1.85	0.59
3:DQ:100:TYR:CE1	3:DQ:167:MET:HB2	2.37	0.59
3:DS:14:PHE:O	3:DS:15:MET:HB2	2.01	0.59
3:DS:56:ILE:HD12	3:DS:56:ILE:N	2.18	0.59
3:DV:14:PHE:O	3:DV:15:MET:HB2	2.02	0.59
3:DV:100:TYR:CE1	3:DV:167:MET:HB2	2.37	0.59
3:Dj:14:PHE:O	3:Dj:15:MET:HB2	2.02	0.59
3:Dk:100:TYR:CE2	3:Dk:167:MET:HB2	2.37	0.59
3:Dl:94:SER:HB3	3:Dl:169:VAL:HG13	1.85	0.59
3:Dn:100:TYR:CE1	3:Dn:167:MET:HB2	2.37	0.59
3:Do:100:TYR:CE2	3:Do:167:MET:HB2	2.37	0.59
3:EC:42:ASN:HD22	3:EC:44:ILE:HG22	1.65	0.59
1:A1:209:LEU:CD1	1:A1:210:ARG:H	2.15	0.59
1:A2:86:ILE:N	1:A2:86:ILE:CD1	2.65	0.59
1:A4:40:VAL:O	1:A4:41:GLU:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:136:ALA:H	1:A5:39:ASP:HB2	1.67	0.59
1:A4:173:GLY:CA	2:C5:188:LEU:O	2.50	0.59
1:A4:223:PRO:HD3	2:C5:158:PHE:CZ	2.37	0.59
1:A9:173:GLY:HA3	2:Ca:188:LEU:O	2.03	0.59
1:AB:136:ALA:H	1:AC:39:ASP:HB2	1.67	0.59
1:AB:173:GLY:HA3	2:CB:188:LEU:O	2.02	0.59
1:AC:88:PHE:CE2	1:AC:146:ILE:HG21	2.37	0.59
1:AC:173:GLY:CA	2:CC:188:LEU:O	2.50	0.59
1:AD:223:PRO:HD3	2:CD:158:PHE:CZ	2.37	0.59
1:AG:136:ALA:H	1:AH:39:ASP:HB2	1.67	0.59
1:AH:224:ILE:HG13	3:DH:89:TYR:CE1	2.37	0.59
1:AI:209:LEU:O	1:AI:210:ARG:HG2	2.01	0.59
1:AJ:209:LEU:CD1	1:AJ:210:ARG:H	2.15	0.59
1:AJ:224:ILE:HG13	3:DJ:89:TYR:CE1	2.37	0.59
1:AK:136:ALA:H	1:AL:39:ASP:HB2	1.67	0.59
1:AM:88:PHE:CE2	1:AM:146:ILE:HG21	2.37	0.59
1:AP:209:LEU:O	1:AP:210:ARG:HG2	2.01	0.59
1:AS:207:CYS:H	1:Ao:121:LEU:CD2	2.12	0.59
1:AT:173:GLY:CA	2:CU:188:LEU:O	2.50	0.59
1:Ab:115:THR:HG22	1:Ab:131:GLN:OE1	2.02	0.59
1:Ab:173:GLY:HA3	2:Cd:188:LEU:O	2.02	0.59
1:Ab:209:LEU:CD1	1:Ab:210:ARG:H	2.15	0.59
1:Ad:209:LEU:CD1	1:Ad:210:ARG:H	2.15	0.59
1:Ae:40:VAL:O	1:Ae:41:GLU:HB2	2.03	0.59
1:Af:173:GLY:HA3	2:Ch:188:LEU:O	2.03	0.59
1:Ai:173:GLY:HA3	2:Ck:188:LEU:O	2.02	0.59
1:Aj:209:LEU:CD1	1:Aj:210:ARG:H	2.15	0.59
1:Ak:223:PRO:HD3	2:Cm:158:PHE:CZ	2.37	0.59
1:Al:86:ILE:N	1:Al:86:ILE:CD1	2.65	0.59
1:Al:209:LEU:CD1	1:Al:210:ARG:H	2.15	0.59
1:An:86:ILE:N	1:An:86:ILE:CD1	2.65	0.59
1:BC:223:PRO:HD3	2:Cr:158:PHE:CZ	2.37	0.59
1:BD:209:LEU:O	1:BD:210:ARG:HG2	2.01	0.59
1:BG:88:PHE:CE2	1:BG:146:ILE:HG21	2.37	0.59
1:BH:173:GLY:HA3	2:Cw:188:LEU:O	2.02	0.59
2:C1:115:ASN:CA	3:DO:119:LYS:HD2	2.31	0.59
2:C2:27:GLN:HG3	2:C2:28:GLY:N	2.17	0.59
2:C2:36:TYR:HE2	2:C2:130:PRO:CG	2.15	0.59
2:C2:115:ASN:C	3:Dh:119:LYS:HZ3	2.11	0.59
2:C4:27:GLN:HG3	2:C4:28:GLY:N	2.17	0.59
2:C6:55:GLY:HA3	2:CD:52:THR:HG23	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:36:TYR:HE2	2:C7:130:PRO:CG	2.15	0.59
2:CA:55:GLY:HA3	2:CV:52:THR:HG23	1.84	0.59
2:CB:15:GLU:HG3	2:CB:29:SER:CB	2.30	0.59
2:CE:27:GLN:HG3	2:CE:28:GLY:N	2.17	0.59
2:CE:110:VAL:HG12	2:CE:215:VAL:HA	1.83	0.59
2:CH:52:THR:HG23	2:Cr:55:GLY:HA3	1.85	0.59
2:CJ:115:ASN:ND2	3:DA:189:THR:O	2.35	0.59
2:CK:115:ASN:ND2	3:Db:189:THR:O	2.35	0.59
2:CO:27:GLN:HG3	2:CO:28:GLY:N	2.17	0.59
2:CP:110:VAL:HG12	2:CP:215:VAL:HA	1.83	0.59
2:CR:115:ASN:CA	3:EE:119:LYS:HD2	2.31	0.59
2:CT:176:PRO:O	2:CT:192:TRP:NE1	2.35	0.59
2:CW:176:PRO:O	2:CW:192:TRP:NE1	2.36	0.59
2:Ca:78:ALA:HA	2:Ca:196:ILE:O	2.02	0.59
2:Cf:36:TYR:HE2	2:Cf:130:PRO:CG	2.15	0.59
2:Cf:115:ASN:ND2	3:DV:189:THR:O	2.35	0.59
2:Cn:27:GLN:HG3	2:Cn:28:GLY:N	2.17	0.59
2:Co:110:VAL:HG12	2:Co:215:VAL:HA	1.83	0.59
2:Cp:27:GLN:HG3	2:Cp:28:GLY:N	2.17	0.59
2:Cq:73:GLN:HA	2:Cq:73:GLN:NE2	2.17	0.59
2:Cv:115:ASN:ND2	3:Dd:190:ALA:C	2.59	0.59
2:Cx:176:PRO:O	2:Cx:192:TRP:NE1	2.36	0.59
3:D1:94:SER:HB3	3:D1:169:VAL:HG13	1.85	0.59
3:D4:80:LEU:HD12	3:D4:80:LEU:N	2.18	0.59
3:D6:100:TYR:CE1	3:D6:167:MET:HB2	2.37	0.59
3:D7:100:TYR:CE2	3:D7:167:MET:HB2	2.37	0.59
3:D8:56:ILE:HD12	3:D8:56:ILE:N	2.18	0.59
3:DB:80:LEU:HD12	3:DB:80:LEU:N	2.18	0.59
3:DC:56:ILE:HD12	3:DC:56:ILE:N	2.17	0.59
3:DC:100:TYR:CE1	3:DC:167:MET:HB2	2.37	0.59
3:DD:56:ILE:HD12	3:DD:56:ILE:N	2.17	0.59
3:DE:56:ILE:HD12	3:DE:56:ILE:N	2.18	0.59
3:DE:100:TYR:CE2	3:DE:167:MET:HB2	2.37	0.59
3:DG:100:TYR:CE2	3:DG:167:MET:HB2	2.37	0.59
3:DQ:56:ILE:HD12	3:DQ:56:ILE:N	2.18	0.59
3:DR:14:PHE:O	3:DR:15:MET:HB2	2.02	0.59
3:DW:80:LEU:HD12	3:DW:80:LEU:N	2.18	0.59
3:DX:42:ASN:HD22	3:DX:44:ILE:H	1.46	0.59
3:DX:94:SER:HB3	3:DX:169:VAL:HG13	1.85	0.59
3:DZ:14:PHE:O	3:DZ:15:MET:HB2	2.02	0.59
3:Dg:14:PHE:O	3:Dg:15:MET:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dg:56:ILE:HD12	3:Dg:56:ILE:N	2.18	0.59
3:Dg:100:TYR:CE1	3:Dg:167:MET:HB2	2.37	0.59
3:Do:56:ILE:HD12	3:Do:56:ILE:N	2.17	0.59
3:EE:100:TYR:CE2	3:EE:167:MET:HB2	2.37	0.59
1:A2:209:LEU:CD1	1:A2:210:ARG:H	2.15	0.59
1:A4:115:THR:HG22	1:A4:131:GLN:OE1	2.02	0.59
1:A6:209:LEU:O	1:A6:210:ARG:HG2	2.01	0.59
1:A8:173:GLY:CA	2:C9:188:LEU:O	2.50	0.59
1:AA:115:THR:HG22	1:AA:131:GLN:OE1	2.02	0.59
1:AC:173:GLY:HA3	2:CC:188:LEU:O	2.03	0.59
1:AN:88:PHE:CE2	1:AN:146:ILE:HG21	2.37	0.59
1:AP:173:GLY:HA3	2:CP:188:LEU:O	2.02	0.59
1:AR:5:GLY:O	1:AR:6:GLU:HB3	2.02	0.59
1:AX:88:PHE:CE2	1:AX:146:ILE:HG21	2.37	0.59
1:Aa:224:ILE:HG13	3:Dc:89:TYR:CE1	2.37	0.59
1:Af:136:ALA:H	1:Ag:39:ASP:HB2	1.67	0.59
1:Ah:136:ALA:H	1:Ai:39:ASP:HB2	1.67	0.59
1:Ak:173:GLY:CA	2:Cm:188:LEU:O	2.50	0.59
1:Al:173:GLY:CA	2:Cn:188:LEU:O	2.50	0.59
1:Am:39:ASP:HB2	1:BD:136:ALA:H	1.67	0.59
1:Am:223:PRO:HD3	2:Co:158:PHE:CZ	2.37	0.59
1:An:173:GLY:HA3	2:Cb:188:LEU:O	2.03	0.59
1:BB:209:LEU:O	1:BB:210:ARG:HG2	2.01	0.59
1:BF:223:PRO:HD3	2:Cu:158:PHE:CZ	2.37	0.59
1:BH:209:LEU:CD1	1:BH:210:ARG:H	2.15	0.59
2:C0:78:ALA:HA	2:C0:196:ILE:O	2.02	0.59
2:C6:27:GLN:HG3	2:C6:28:GLY:N	2.17	0.59
2:C6:36:TYR:HE2	2:C6:130:PRO:CG	2.15	0.59
2:C7:115:ASN:ND2	3:Dm:189:THR:O	2.35	0.59
2:CB:176:PRO:O	2:CB:192:TRP:NE1	2.36	0.59
2:CD:115:ASN:ND2	3:D7:189:THR:O	2.35	0.59
2:CE:176:PRO:O	2:CE:192:TRP:NE1	2.36	0.59
2:CF:27:GLN:HG3	2:CF:28:GLY:N	2.17	0.59
2:CF:110:VAL:HG12	2:CF:215:VAL:HA	1.83	0.59
2:CF:115:ASN:ND2	3:D6:189:THR:O	2.35	0.59
2:CH:115:ASN:ND2	3:Ds:189:THR:O	2.35	0.59
2:CO:110:VAL:HG12	2:CO:215:VAL:HA	1.83	0.59
2:CQ:115:ASN:ND2	3:Dp:189:THR:O	2.35	0.59
2:CS:115:ASN:ND2	3:Dc:189:THR:O	2.35	0.59
2:CV:78:ALA:HA	2:CV:196:ILE:O	2.01	0.59
2:CW:78:ALA:HA	2:CW:196:ILE:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CZ:176:PRO:O	2:CZ:192:TRP:NE1	2.36	0.59
2:Cb:115:ASN:ND2	3:DT:189:THR:O	2.35	0.59
2:Cc:55:GLY:HA3	2:Cv:52:THR:HG23	1.84	0.59
2:Ci:52:THR:HG23	2:Cn:55:GLY:HA3	1.84	0.59
2:Cl:110:VAL:HG12	2:Cl:215:VAL:HA	1.83	0.59
2:Cn:78:ALA:HA	2:Cn:196:ILE:O	2.01	0.59
2:Cv:213:MET:CE	2:Cv:215:VAL:HG22	2.30	0.59
3:D0:80:LEU:N	3:D0:80:LEU:HD12	2.18	0.59
3:D1:80:LEU:HD12	3:D1:80:LEU:N	2.18	0.59
3:D2:94:SER:HB3	3:D2:169:VAL:HG13	1.85	0.59
3:D3:100:TYR:CE2	3:D3:167:MET:HB2	2.37	0.59
3:D4:94:SER:HB3	3:D4:169:VAL:HG13	1.85	0.59
3:D7:56:ILE:HD12	3:D7:56:ILE:N	2.18	0.59
3:D8:94:SER:HB3	3:D8:169:VAL:HG13	1.85	0.59
3:DD:14:PHE:O	3:DD:15:MET:HB2	2.02	0.59
3:DJ:100:TYR:CE1	3:DJ:167:MET:HB2	2.37	0.59
3:DL:14:PHE:O	3:DL:15:MET:HB2	2.02	0.59
3:DL:56:ILE:HD12	3:DL:56:ILE:N	2.18	0.59
3:DT:80:LEU:HD12	3:DT:80:LEU:N	2.18	0.59
3:DZ:80:LEU:HD12	3:DZ:80:LEU:N	2.18	0.59
3:Db:100:TYR:CE2	3:Db:167:MET:HB2	2.37	0.59
3:Dc:56:ILE:HD12	3:Dc:56:ILE:N	2.18	0.59
3:De:14:PHE:O	3:De:15:MET:HB2	2.02	0.59
3:Df:80:LEU:N	3:Df:80:LEU:HD12	2.18	0.59
3:Dl:56:ILE:HD12	3:Dl:56:ILE:N	2.17	0.59
3:Dn:56:ILE:HD12	3:Dn:56:ILE:N	2.17	0.59
3:Do:42:ASN:HD22	3:Do:44:ILE:HG22	1.65	0.59
3:Dp:100:TYR:CE2	3:Dp:167:MET:HB2	2.37	0.59
3:EA:14:PHE:O	3:EA:15:MET:HB2	2.02	0.59
4:F0:25:PHE:HD2	4:F0:26:TYR:CE1	2.19	0.59
4:FT:25:PHE:HD2	4:FT:26:TYR:CE1	2.19	0.59
4:Fo:25:PHE:HD2	4:Fo:26:TYR:CE1	2.19	0.59
1:A1:115:THR:HG22	1:A1:131:GLN:OE1	2.02	0.59
1:A2:223:PRO:HD3	2:C3:158:PHE:CZ	2.37	0.59
1:A5:5:GLY:O	1:A5:6:GLU:HB3	2.02	0.59
1:A8:115:THR:HG22	1:A8:131:GLN:OE1	2.02	0.59
1:A8:223:PRO:HD3	2:C9:158:PHE:CZ	2.37	0.59
1:A9:173:GLY:CA	2:Ca:188:LEU:O	2.50	0.59
1:A9:209:LEU:CD1	1:A9:210:ARG:H	2.15	0.59
1:AD:115:THR:HG22	1:AD:131:GLN:OE1	2.02	0.59
1:AJ:40:VAL:O	1:AJ:41:GLU:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:223:PRO:HD3	2:CJ:158:PHE:CZ	2.37	0.59
1:AM:173:GLY:CA	2:CM:188:LEU:O	2.50	0.59
1:AR:173:GLY:CA	2:CR:188:LEU:O	2.50	0.59
1:AX:5:GLY:O	1:AX:6:GLU:HB3	2.01	0.59
1:AZ:40:VAL:O	1:AZ:41:GLU:HB2	2.03	0.59
1:AZ:209:LEU:CD1	1:AZ:210:ARG:H	2.15	0.59
1:Aa:112:PRO:HG3	3:Dd:223:PRO:HD3	1.85	0.59
1:Ab:40:VAL:O	1:Ab:41:GLU:HB2	2.03	0.59
1:Ab:102:VAL:HG22	1:Ab:199:SER:CB	2.30	0.59
1:Ae:209:LEU:CD1	1:Ae:210:ARG:H	2.15	0.59
1:Aj:86:ILE:N	1:Aj:86:ILE:CD1	2.65	0.59
1:Ak:173:GLY:HA3	2:Cm:188:LEU:O	2.02	0.59
1:Am:86:ILE:N	1:Am:86:ILE:CD1	2.65	0.59
1:Am:209:LEU:CD1	1:Am:210:ARG:H	2.15	0.59
1:BA:173:GLY:HA3	2:Cp:188:LEU:O	2.03	0.59
1:BC:86:ILE:N	1:BC:86:ILE:CD1	2.65	0.59
1:BC:209:LEU:O	1:BC:210:ARG:HG2	2.01	0.59
1:BD:115:THR:HG22	1:BD:131:GLN:OE1	2.02	0.59
1:BF:86:ILE:N	1:BF:86:ILE:CD1	2.65	0.59
1:BG:5:GLY:O	1:BG:6:GLU:HB3	2.01	0.59
1:BG:136:ALA:H	1:BH:39:ASP:HB2	1.67	0.59
1:BG:209:LEU:CD1	1:BG:210:ARG:H	2.15	0.59
1:BI:173:GLY:HA3	2:Cx:188:LEU:O	2.03	0.59
1:BI:209:LEU:CD1	1:BI:210:ARG:H	2.15	0.59
2:C1:52:THR:HG23	2:CN:55:GLY:HA3	1.84	0.59
2:C2:52:THR:HG23	2:Cg:55:GLY:HA3	1.84	0.59
2:C3:176:PRO:O	2:C3:192:TRP:NE1	2.35	0.59
2:C4:110:VAL:HG12	2:C4:215:VAL:HA	1.83	0.59
2:C9:176:PRO:O	2:C9:192:TRP:NE1	2.36	0.59
2:CA:27:GLN:HG3	2:CA:28:GLY:N	2.17	0.59
2:CD:78:ALA:HA	2:CD:196:ILE:O	2.02	0.59
2:CK:27:GLN:HG3	2:CK:28:GLY:N	2.17	0.59
2:CK:36:TYR:HE2	2:CK:130:PRO:CG	2.15	0.59
2:CK:55:GLY:HA3	2:Ca:52:THR:HG23	1.84	0.59
2:CM:52:THR:HG23	2:Ch:55:GLY:HA3	1.84	0.59
2:CM:176:PRO:O	2:CM:192:TRP:NE1	2.35	0.59
2:CU:36:TYR:HE2	2:CU:130:PRO:CG	2.15	0.59
2:CV:36:TYR:HE2	2:CV:130:PRO:CG	2.15	0.59
2:CX:35:CYS:O	2:CX:36:TYR:HB2	2.03	0.59
2:Ca:27:GLN:HG3	2:Ca:28:GLY:N	2.17	0.59
2:Ca:176:PRO:O	2:Ca:192:TRP:NE1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cg:176:PRO:O	2:Cg:192:TRP:NE1	2.36	0.59
2:Cl:36:TYR:HE2	2:Cl:130:PRO:CG	2.15	0.59
2:Cn:35:CYS:O	2:Cn:36:TYR:HB2	2.03	0.59
2:Co:115:ASN:ND2	3:DR:189:THR:O	2.35	0.59
2:Cq:176:PRO:O	2:Cq:192:TRP:NE1	2.36	0.59
2:Cs:15:GLU:HG3	2:Cs:29:SER:CB	2.30	0.59
3:D1:100:TYR:CE1	3:D1:167:MET:HB2	2.37	0.59
3:DA:56:ILE:HD12	3:DA:56:ILE:N	2.17	0.59
3:DD:94:SER:HB3	3:DD:169:VAL:HG13	1.85	0.59
3:DG:14:PHE:O	3:DG:15:MET:HB2	2.02	0.59
3:DH:100:TYR:CE2	3:DH:167:MET:HB2	2.37	0.59
3:DI:80:LEU:HD12	3:DI:80:LEU:N	2.18	0.59
3:DK:100:TYR:CE1	3:DK:167:MET:HB2	2.37	0.59
3:DM:80:LEU:HD12	3:DM:80:LEU:N	2.18	0.59
3:DN:56:ILE:HD12	3:DN:56:ILE:N	2.17	0.59
3:DP:80:LEU:HD12	3:DP:80:LEU:N	2.18	0.59
3:DP:100:TYR:CE1	3:DP:167:MET:HB2	2.37	0.59
3:DR:80:LEU:HD12	3:DR:80:LEU:N	2.18	0.59
3:DX:42:ASN:HD22	3:DX:44:ILE:HG22	1.65	0.59
3:DZ:100:TYR:CE2	3:DZ:167:MET:HB2	2.37	0.59
3:Da:80:LEU:HD12	3:Da:80:LEU:N	2.18	0.59
3:Dd:56:ILE:HD12	3:Dd:56:ILE:N	2.18	0.59
3:Dj:56:ILE:HD12	3:Dj:56:ILE:N	2.17	0.59
3:Dj:80:LEU:HD12	3:Dj:80:LEU:N	2.18	0.59
3:Dk:80:LEU:HD12	3:Dk:80:LEU:N	2.18	0.59
3:EA:80:LEU:HD12	3:EA:80:LEU:N	2.18	0.59
3:EA:94:SER:HB3	3:EA:169:VAL:HG13	1.85	0.59
3:EB:56:ILE:HD12	3:EB:56:ILE:N	2.17	0.59
1:A3:5:GLY:O	1:A3:6:GLU:HB3	2.01	0.59
1:A5:173:GLY:HA3	2:C6:188:LEU:O	2.02	0.59
1:AA:88:PHE:CE2	1:AA:146:ILE:HG21	2.37	0.59
1:AC:112:PRO:HG3	3:DD:223:PRO:HD3	1.85	0.59
1:AD:40:VAL:O	1:AD:41:GLU:HB2	2.03	0.59
1:AF:102:VAL:HG22	1:AF:199:SER:CB	2.31	0.59
1:AG:115:THR:HG22	1:AG:131:GLN:OE1	2.02	0.59
1:AI:121:LEU:CD2	1:AJ:207:CYS:H	2.12	0.59
1:AJ:115:THR:HG22	1:AJ:131:GLN:OE1	2.02	0.59
1:AJ:173:GLY:HA3	2:CJ:188:LEU:O	2.02	0.59
1:AK:173:GLY:CA	2:CK:188:LEU:O	2.50	0.59
1:AM:86:ILE:N	1:AM:86:ILE:CD1	2.65	0.59
1:AO:223:PRO:HD3	2:CO:158:PHE:CZ	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:88:PHE:CE2	1:AQ:146:ILE:HG21	2.37	0.59
1:AQ:173:GLY:CA	2:CQ:188:LEU:O	2.50	0.59
1:AR:102:VAL:HG22	1:AR:199:SER:CB	2.30	0.59
1:AV:136:ALA:H	1:AW:39:ASP:HB2	1.67	0.59
1:AW:88:PHE:CE2	1:AW:146:ILE:HG21	2.37	0.59
1:AY:209:LEU:CD1	1:AY:210:ARG:H	2.15	0.59
1:Ab:178:THR:O	1:Ab:180:GLU:N	2.36	0.59
1:Ae:173:GLY:HA3	2:Cg:188:LEU:O	2.02	0.59
1:Ag:115:THR:HG22	1:Ag:131:GLN:OE1	2.02	0.59
1:Ah:88:PHE:CE2	1:Ah:146:ILE:HG21	2.37	0.59
1:Aj:173:GLY:HA3	2:Cl:188:LEU:O	2.03	0.59
1:Ak:102:VAL:HG22	1:Ak:199:SER:CB	2.30	0.59
1:Al:5:GLY:O	1:Al:6:GLU:HB3	2.01	0.59
1:Al:224:ILE:HG13	3:Dn:89:TYR:CE1	2.37	0.59
1:BB:5:GLY:O	1:BB:6:GLU:HB3	2.02	0.59
1:BC:40:VAL:O	1:BC:41:GLU:HB2	2.03	0.59
1:BC:88:PHE:CE2	1:BC:146:ILE:HG21	2.37	0.59
1:BC:115:THR:HG22	1:BC:131:GLN:OE1	2.02	0.59
1:BD:223:PRO:HD3	2:Cs:158:PHE:CZ	2.37	0.59
1:BE:224:ILE:HG13	3:EA:89:TYR:CE1	2.37	0.59
1:BG:209:LEU:O	1:BG:210:ARG:HG2	2.01	0.59
1:BH:112:PRO:HG3	3:EE:223:PRO:HD3	1.85	0.59
2:C0:36:TYR:HE2	2:C0:130:PRO:CG	2.15	0.59
2:C4:55:GLY:HA3	2:Cu:52:THR:HG23	1.84	0.59
2:C7:115:ASN:HA	3:Dm:119:LYS:CE	2.33	0.59
2:CA:115:ASN:ND2	3:DW:189:THR:O	2.35	0.59
2:CC:27:GLN:HG3	2:CC:28:GLY:N	2.17	0.59
2:CC:35:CYS:O	2:CC:36:TYR:HB2	2.03	0.59
2:CI:35:CYS:O	2:CI:36:TYR:HB2	2.03	0.59
2:CL:115:ASN:ND2	3:Dk:189:THR:O	2.35	0.59
2:CR:27:GLN:HG3	2:CR:28:GLY:N	2.17	0.59
2:CR:110:VAL:HG12	2:CR:215:VAL:HA	1.83	0.59
2:CZ:36:TYR:HE2	2:CZ:130:PRO:CG	2.15	0.59
2:CZ:52:THR:HG23	2:Cp:55:GLY:HA3	1.84	0.59
2:Cd:35:CYS:O	2:Cd:36:TYR:HB2	2.03	0.59
2:Ce:115:ASN:ND2	3:DC:189:THR:O	2.35	0.59
2:Cg:36:TYR:HE2	2:Cg:130:PRO:CG	2.15	0.59
2:Ch:115:ASN:ND2	3:DN:189:THR:O	2.35	0.59
2:Ch:115:ASN:CA	3:DN:119:LYS:HD2	2.31	0.59
2:CI:115:ASN:ND2	3:Dj:189:THR:O	2.35	0.59
2:Co:36:TYR:HE2	2:Co:130:PRO:CG	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cr:27:GLN:HG3	2:Cr:28:GLY:N	2.17	0.59
2:Cs:36:TYR:HE2	2:Cs:130:PRO:CG	2.15	0.59
2:Cv:36:TYR:HE2	2:Cv:130:PRO:CG	2.15	0.59
3:DJ:94:SER:HB3	3:DJ:169:VAL:HG13	1.85	0.59
3:DK:80:LEU:HD12	3:DK:80:LEU:N	2.18	0.59
3:DU:14:PHE:O	3:DU:15:MET:HB2	2.02	0.59
3:Dh:17:SER:O	3:Dh:19:PRO:HD3	2.03	0.59
3:Dj:100:TYR:CE2	3:Dj:167:MET:HB2	2.37	0.59
3:EA:100:TYR:CE1	3:EA:167:MET:HB2	2.37	0.59
3:EE:80:LEU:HD12	3:EE:80:LEU:N	2.18	0.59
1:A1:156:PHE:CD2	3:D2:25:LEU:HD12	2.38	0.59
1:A6:178:THR:O	1:A6:180:GLU:N	2.36	0.59
1:A9:112:PRO:HG3	3:Db:223:PRO:HD3	1.85	0.59
1:AA:40:VAL:O	1:AA:41:GLU:HB2	2.03	0.59
1:AC:209:LEU:CD1	1:AC:210:ARG:H	2.15	0.59
1:AC:209:LEU:O	1:AC:210:ARG:HG2	2.01	0.59
1:AE:40:VAL:O	1:AE:41:GLU:HB2	2.03	0.59
1:AF:136:ALA:H	1:AG:39:ASP:HB2	1.67	0.59
1:AJ:178:THR:O	1:AJ:180:GLU:N	2.36	0.59
1:AN:19:LEU:HB2	2:CM:48:SER:HB2	1.83	0.59
1:AN:102:VAL:HG22	1:AN:199:SER:CB	2.30	0.59
1:AN:136:ALA:H	1:AO:39:ASP:HB2	1.67	0.59
1:AO:156:PHE:CD2	3:DO:25:LEU:HD12	2.38	0.59
1:AO:178:THR:O	1:AO:180:GLU:N	2.36	0.59
1:AP:40:VAL:O	1:AP:41:GLU:HB2	2.03	0.59
1:AQ:112:PRO:HG3	3:DR:223:PRO:HD3	1.85	0.59
1:AS:156:PHE:CD2	3:DT:25:LEU:HD12	2.38	0.59
1:AT:86:ILE:N	1:AT:86:ILE:CD1	2.65	0.59
1:AT:178:THR:O	1:AT:180:GLU:N	2.36	0.59
1:AW:5:GLY:O	1:AW:6:GLU:HB3	2.01	0.59
1:AW:223:PRO:HD3	2:CX:158:PHE:CZ	2.37	0.59
1:Aa:39:ASP:HB2	1:An:136:ALA:H	1.67	0.59
1:Ae:136:ALA:H	1:Af:39:ASP:HB2	1.67	0.59
1:Af:209:LEU:O	1:Af:210:ARG:HG2	2.01	0.59
1:Ag:112:PRO:HG3	3:De:223:PRO:HD3	1.85	0.59
1:Ag:156:PHE:CD2	3:Di:25:LEU:HD12	2.38	0.59
1:Al:40:VAL:O	1:Al:41:GLU:HB2	2.03	0.59
1:An:156:PHE:CD2	3:Db:25:LEU:HD12	2.38	0.59
1:Ao:115:THR:HG22	1:Ao:131:GLN:OE1	2.02	0.59
1:Ao:178:THR:O	1:Ao:180:GLU:N	2.36	0.59
1:BA:88:PHE:CE2	1:BA:146:ILE:HG21	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:40:VAL:O	1:BD:41:GLU:HB2	2.03	0.59
1:BE:209:LEU:CD1	1:BE:210:ARG:H	2.15	0.59
1:BE:223:PRO:HD3	2:Ct:158:PHE:CZ	2.37	0.59
1:BG:173:GLY:HA3	2:Cv:188:LEU:O	2.02	0.59
1:BG:187:LEU:CD2	1:BG:188:PRO:HD2	2.25	0.59
2:C3:27:GLN:HG3	2:C3:28:GLY:N	2.17	0.59
2:C8:55:GLY:HA3	2:Cd:52:THR:HG23	1.85	0.59
2:CA:115:ASN:OD1	3:DW:119:LYS:HD2	2.03	0.59
2:CC:55:GLY:HA3	2:Cm:52:THR:HG23	1.84	0.59
2:CE:78:ALA:HA	2:CE:196:ILE:O	2.02	0.59
2:CG:36:TYR:HE2	2:CG:130:PRO:CG	2.15	0.59
2:CI:27:GLN:HG3	2:CI:28:GLY:N	2.17	0.59
2:CJ:27:GLN:HG3	2:CJ:28:GLY:N	2.17	0.59
2:CJ:78:ALA:HA	2:CJ:196:ILE:O	2.02	0.59
2:CR:55:GLY:HA3	2:Cw:52:THR:HG23	1.84	0.59
2:CS:35:CYS:O	2:CS:36:TYR:HB2	2.03	0.59
2:CT:115:ASN:HA	3:DK:119:LYS:CE	2.33	0.59
2:CU:35:CYS:O	2:CU:36:TYR:HB2	2.03	0.59
2:CU:115:ASN:ND2	3:Dg:189:THR:O	2.35	0.59
2:CV:176:PRO:O	2:CV:192:TRP:NE1	2.35	0.59
2:CY:35:CYS:O	2:CY:36:TYR:HB2	2.03	0.59
2:Cd:115:ASN:ND2	3:D4:189:THR:O	2.35	0.59
2:Cd:176:PRO:O	2:Cd:192:TRP:NE1	2.36	0.59
2:Cf:176:PRO:O	2:Cf:192:TRP:NE1	2.36	0.59
2:CI:36:TYR:HE2	2:CI:130:PRO:CG	2.15	0.59
2:Cm:27:GLN:HG3	2:Cm:28:GLY:N	2.17	0.59
2:Cm:115:ASN:ND2	3:DD:189:THR:O	2.35	0.59
2:Cn:115:ASN:ND2	3:De:189:THR:O	2.35	0.59
2:Cp:115:ASN:CA	3:D0:119:LYS:HD2	2.31	0.59
2:Cw:36:TYR:HE2	2:Cw:130:PRO:CG	2.15	0.59
2:Cx:115:ASN:HA	3:Do:119:LYS:CE	2.33	0.59
3:D0:56:ILE:HD12	3:D0:56:ILE:N	2.17	0.59
3:D4:53:PHE:CE2	3:D4:205:LEU:HB3	2.31	0.59
3:D5:14:PHE:O	3:D5:15:MET:HB2	2.02	0.59
3:D6:17:SER:O	3:D6:19:PRO:HD3	2.03	0.59
3:D7:14:PHE:O	3:D7:15:MET:HB2	2.01	0.59
3:DE:80:LEU:HD12	3:DE:80:LEU:N	2.18	0.59
3:DJ:80:LEU:HD12	3:DJ:80:LEU:N	2.18	0.59
3:DL:80:LEU:HD12	3:DL:80:LEU:N	2.18	0.59
3:DM:100:TYR:CE1	3:DM:167:MET:HB2	2.37	0.59
3:DP:56:ILE:HD12	3:DP:56:ILE:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DQ:80:LEU:HD12	3:DQ:80:LEU:N	2.18	0.59
3:DT:56:ILE:HD12	3:DT:56:ILE:N	2.18	0.59
3:DW:17:SER:O	3:DW:19:PRO:HD3	2.03	0.59
3:DY:56:ILE:HD12	3:DY:56:ILE:N	2.18	0.59
3:DZ:94:SER:HB3	3:DZ:169:VAL:HG13	1.85	0.59
3:Df:17:SER:O	3:Df:19:PRO:HD3	2.03	0.59
3:Df:94:SER:HB3	3:Df:169:VAL:HG13	1.85	0.59
3:Dg:17:SER:O	3:Dg:19:PRO:HD3	2.03	0.59
3:Dh:56:ILE:HD12	3:Dh:56:ILE:N	2.18	0.59
3:Dm:56:ILE:HD12	3:Dm:56:ILE:N	2.17	0.59
3:Dq:56:ILE:HD12	3:Dq:56:ILE:N	2.18	0.59
3:Dq:80:LEU:HD12	3:Dq:80:LEU:N	2.18	0.59
3:EE:17:SER:O	3:EE:19:PRO:HD3	2.03	0.59
1:A1:136:ALA:H	1:A2:39:ASP:HB2	1.67	0.59
1:A2:40:VAL:O	1:A2:41:GLU:HB2	2.03	0.59
1:A2:173:GLY:HA3	2:C3:188:LEU:O	2.03	0.59
1:A3:115:THR:HG22	1:A3:131:GLN:OE1	2.02	0.59
1:A4:121:LEU:CD2	1:A5:207:CYS:H	2.12	0.59
1:A6:156:PHE:CD2	3:D7:25:LEU:HD12	2.38	0.59
1:A7:178:THR:O	1:A7:180:GLU:N	2.36	0.59
1:AB:209:LEU:CD1	1:AB:210:ARG:H	2.15	0.59
1:AG:88:PHE:CE2	1:AG:146:ILE:HG21	2.37	0.59
1:AH:102:VAL:HG22	1:AH:199:SER:CB	2.31	0.59
1:AI:136:ALA:H	1:AJ:39:ASP:HB2	1.67	0.59
1:AJ:156:PHE:CD2	3:DJ:25:LEU:HD12	2.38	0.59
1:AL:112:PRO:HG3	3:DM:223:PRO:HD3	1.85	0.59
1:AM:112:PRO:HG3	3:DN:223:PRO:HD3	1.85	0.59
1:AM:156:PHE:CD2	3:DM:25:LEU:HD12	2.38	0.59
1:AO:102:VAL:HG22	1:AO:199:SER:CB	2.30	0.59
1:AP:39:ASP:HB2	1:AS:136:ALA:H	1.67	0.59
1:AR:88:PHE:CE2	1:AR:146:ILE:HG21	2.37	0.59
1:AR:112:PRO:HG3	3:DS:223:PRO:HD3	1.85	0.59
1:AR:136:ALA:H	1:Ao:39:ASP:HB2	1.67	0.59
1:AS:112:PRO:HG3	3:DP:223:PRO:HD3	1.85	0.59
1:AT:88:PHE:CE2	1:AT:146:ILE:HG21	2.37	0.59
1:AX:173:GLY:HA3	2:CY:188:LEU:O	2.03	0.59
1:AY:5:GLY:O	1:AY:6:GLU:HB3	2.01	0.59
1:AZ:5:GLY:O	1:AZ:6:GLU:HB3	2.01	0.59
1:Aa:209:LEU:CD1	1:Aa:210:ARG:H	2.15	0.59
1:Ab:5:GLY:O	1:Ab:6:GLU:HB3	2.01	0.59
1:Ac:39:ASP:HB2	1:Ag:136:ALA:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:112:PRO:HG3	3:Dg:223:PRO:HD3	1.85	0.59
1:Af:178:THR:O	1:Af:180:GLU:N	2.36	0.59
1:Ah:178:THR:O	1:Ah:180:GLU:N	2.36	0.59
1:Ai:115:THR:HG22	1:Ai:131:GLN:OE1	2.02	0.59
1:Aj:130:ILE:HD11	1:Aj:135:VAL:CG1	2.30	0.59
1:Aj:178:THR:O	1:Aj:180:GLU:N	2.36	0.59
1:Ak:112:PRO:HG3	3:Dn:223:PRO:HD3	1.85	0.59
1:Al:178:THR:O	1:Al:180:GLU:N	2.36	0.59
1:BA:223:PRO:HD3	2:Cp:158:PHE:CZ	2.37	0.59
1:BB:178:THR:O	1:BB:180:GLU:N	2.36	0.59
1:BC:156:PHE:CD2	3:Dr:25:LEU:HD12	2.38	0.59
1:BC:173:GLY:HA3	2:Cr:188:LEU:O	2.03	0.59
1:BC:178:THR:O	1:BC:180:GLU:N	2.36	0.59
1:BF:136:ALA:H	1:BG:39:ASP:HB2	1.67	0.59
2:C0:176:PRO:O	2:C0:192:TRP:NE1	2.36	0.59
2:C2:35:CYS:O	2:C2:36:TYR:HB2	2.03	0.59
2:C2:55:GLY:HA3	2:Cg:52:THR:HG23	1.84	0.59
2:C4:52:THR:HG23	2:Cu:55:GLY:HA3	1.84	0.59
2:C7:27:GLN:HG3	2:C7:28:GLY:N	2.17	0.59
2:C8:27:GLN:HG3	2:C8:28:GLY:N	2.17	0.59
2:C8:52:THR:HG23	2:Cd:55:GLY:HA3	1.84	0.59
2:CD:176:PRO:O	2:CD:192:TRP:NE1	2.35	0.59
2:CE:55:GLY:HA3	2:CJ:52:THR:HG23	1.84	0.59
2:CG:110:VAL:HG12	2:CG:215:VAL:HA	1.83	0.59
2:CP:35:CYS:O	2:CP:36:TYR:HB2	2.03	0.59
2:CR:115:ASN:ND2	3:EE:189:THR:O	2.35	0.59
2:CY:223:ASN:H	2:CY:223:ASN:ND2	2.01	0.59
2:Cc:36:TYR:HE2	2:Cc:130:PRO:CG	2.15	0.59
2:Cc:115:ASN:CA	3:ED:119:LYS:HD2	2.31	0.59
2:Cd:115:ASN:HA	3:D4:119:LYS:CE	2.33	0.59
2:Cg:35:CYS:O	2:Cg:36:TYR:HB2	2.03	0.59
2:Ci:223:ASN:H	2:Ci:223:ASN:ND2	2.01	0.59
2:Cj:36:TYR:HE2	2:Cj:130:PRO:CG	2.15	0.59
2:Cj:115:ASN:ND2	3:DM:189:THR:O	2.35	0.59
2:Ck:36:TYR:HE2	2:Ck:130:PRO:CG	2.15	0.59
2:Ck:115:ASN:HA	3:Da:119:LYS:CE	2.33	0.59
2:Co:27:GLN:HG3	2:Co:28:GLY:N	2.17	0.59
2:Co:213:MET:CE	2:Co:215:VAL:HG22	2.30	0.59
2:Cp:115:ASN:ND2	3:D0:189:THR:O	2.35	0.59
2:Cr:110:VAL:HG12	2:Cr:215:VAL:HA	1.83	0.59
2:Cu:223:ASN:H	2:Cu:223:ASN:ND2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cw:115:ASN:CA	3:DS:119:LYS:HD2	2.31	0.59
3:D1:14:PHE:O	3:D1:15:MET:HB2	2.01	0.59
3:D2:80:LEU:HD12	3:D2:80:LEU:N	2.18	0.59
3:D3:80:LEU:HD12	3:D3:80:LEU:N	2.18	0.59
3:D6:94:SER:HB3	3:D6:169:VAL:HG13	1.85	0.59
3:D9:94:SER:HB3	3:D9:169:VAL:HG13	1.85	0.59
3:DB:14:PHE:O	3:DB:15:MET:HB2	2.02	0.59
3:DQ:14:PHE:O	3:DQ:15:MET:HB2	2.02	0.59
3:DS:100:TYR:CE2	3:DS:167:MET:HB2	2.37	0.59
3:DW:100:TYR:CE1	3:DW:167:MET:HB2	2.37	0.59
3:DY:94:SER:HB3	3:DY:169:VAL:HG13	1.85	0.59
3:DZ:17:SER:O	3:DZ:19:PRO:HD3	2.03	0.59
3:Dd:14:PHE:O	3:Dd:15:MET:HB2	2.01	0.59
3:Df:56:ILE:HD12	3:Df:56:ILE:N	2.18	0.59
3:Dh:80:LEU:HD12	3:Dh:80:LEU:N	2.18	0.59
3:Dk:17:SER:O	3:Dk:19:PRO:HD3	2.03	0.59
3:Dl:17:SER:O	3:Dl:19:PRO:HD3	2.03	0.59
3:Dm:80:LEU:HD12	3:Dm:80:LEU:N	2.18	0.59
3:Do:80:LEU:HD12	3:Do:80:LEU:N	2.18	0.59
3:Dp:80:LEU:HD12	3:Dp:80:LEU:N	2.18	0.59
3:Dr:100:TYR:CE1	3:Dr:167:MET:HB2	2.37	0.59
3:ED:80:LEU:HD12	3:ED:80:LEU:N	2.18	0.59
3:EE:42:ASN:HD22	3:EE:44:ILE:HG22	1.65	0.59
1:A1:121:LEU:CD2	1:A2:207:CYS:H	2.12	0.58
1:A8:40:VAL:O	1:A8:41:GLU:HB2	2.03	0.58
1:A8:207:CYS:H	1:Ab:121:LEU:CD2	2.12	0.58
1:AA:112:PRO:HG3	3:DB:223:PRO:HD3	1.85	0.58
1:AA:156:PHE:CD2	3:DA:25:LEU:HD12	2.38	0.58
1:AA:178:THR:O	1:AA:180:GLU:N	2.36	0.58
1:AE:112:PRO:HG3	3:DA:223:PRO:HD3	1.85	0.58
1:AE:173:GLY:CA	2:CE:188:LEU:O	2.50	0.58
1:AG:112:PRO:HG3	3:DH:223:PRO:HD3	1.85	0.58
1:AH:178:THR:O	1:AH:180:GLU:N	2.36	0.58
1:AI:209:LEU:CD1	1:AI:210:ARG:H	2.15	0.58
1:AJ:112:PRO:HG3	3:DF:223:PRO:HD3	1.85	0.58
1:AL:156:PHE:CD2	3:DL:25:LEU:HD12	2.38	0.58
1:AM:130:ILE:HD11	1:AM:135:VAL:CG1	2.30	0.58
1:AQ:40:VAL:O	1:AQ:41:GLU:HB2	2.03	0.58
1:AQ:173:GLY:HA3	2:CQ:188:LEU:O	2.02	0.58
1:AU:112:PRO:HG3	3:DW:223:PRO:HD3	1.85	0.58
1:AZ:178:THR:O	1:AZ:180:GLU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ac:115:THR:HG22	1:Ac:131:GLN:OE1	2.02	0.58
1:Ad:130:ILE:HD11	1:Ad:135:VAL:CG1	2.30	0.58
1:Ah:86:ILE:N	1:Ah:86:ILE:CD1	2.65	0.58
1:Ai:86:ILE:N	1:Ai:86:ILE:CD1	2.65	0.58
1:Aj:121:LEU:CD2	1:Ak:207:CYS:H	2.12	0.58
1:Al:136:ALA:H	1:Al:39:ASP:HB2	1.67	0.58
1:Al:112:PRO:HG3	3:Dj:223:PRO:HD3	1.85	0.58
1:Am:112:PRO:HG3	3:Dp:223:PRO:HD3	1.85	0.58
1:Am:156:PHE:CD2	3:Do:25:LEU:HD12	2.38	0.58
1:An:5:GLY:O	1:An:6:GLU:HB3	2.01	0.58
1:BB:88:PHE:CE2	1:BB:146:ILE:HG21	2.36	0.58
1:BE:115:THR:HG22	1:BE:131:GLN:OE1	2.02	0.58
1:BF:173:GLY:HA3	2:Cu:188:LEU:O	2.03	0.58
1:BH:156:PHE:CD2	3:ED:25:LEU:HD12	2.38	0.58
2:C0:115:ASN:HA	3:DQ:119:LYS:CE	2.33	0.58
2:C1:115:ASN:HA	3:DO:119:LYS:CE	2.33	0.58
2:C1:176:PRO:O	2:C1:192:TRP:NE1	2.35	0.58
2:C2:115:ASN:ND2	3:Dh:189:THR:O	2.35	0.58
2:C7:52:THR:HG23	2:Cl:55:GLY:HA3	1.84	0.58
2:C9:73:GLN:HA	2:C9:73:GLN:NE2	2.17	0.58
2:CA:36:TYR:HE2	2:CA:130:PRO:CG	2.15	0.58
2:CA:115:ASN:HA	3:DW:119:LYS:CE	2.33	0.58
2:CD:35:CYS:O	2:CD:36:TYR:HB2	2.03	0.58
2:CG:35:CYS:O	2:CG:36:TYR:HB2	2.03	0.58
2:CK:35:CYS:O	2:CK:36:TYR:HB2	2.03	0.58
2:CN:36:TYR:HE2	2:CN:130:PRO:CG	2.15	0.58
2:CO:36:TYR:HE2	2:CO:130:PRO:CG	2.15	0.58
2:CQ:27:GLN:HG3	2:CQ:28:GLY:N	2.17	0.58
2:CQ:115:ASN:HA	3:Dp:119:LYS:CE	2.33	0.58
2:CQ:115:ASN:CA	3:Dp:119:LYS:HD2	2.31	0.58
2:CR:223:ASN:H	2:CR:223:ASN:ND2	2.01	0.58
2:CV:15:GLU:HG3	2:CV:29:SER:CB	2.30	0.58
2:CW:115:ASN:HA	3:DJ:119:LYS:CE	2.33	0.58
2:CY:110:VAL:HG12	2:CY:215:VAL:HA	1.83	0.58
2:Ca:115:ASN:OD1	3:DL:119:LYS:HD2	2.03	0.58
2:Cc:115:ASN:ND2	3:ED:189:THR:O	2.35	0.58
2:Ch:115:ASN:OD1	3:DN:119:LYS:HD2	2.03	0.58
2:Ci:35:CYS:O	2:Ci:36:TYR:HB2	2.03	0.58
2:Cj:27:GLN:HG3	2:Cj:28:GLY:N	2.17	0.58
2:Cl:115:ASN:ND2	3:D8:189:THR:O	2.35	0.58
2:Co:223:ASN:H	2:Co:223:ASN:ND2	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cp:176:PRO:O	2:Cp:192:TRP:NE1	2.35	0.58
2:Cs:27:GLN:HG3	2:Cs:28:GLY:N	2.17	0.58
2:Cw:110:VAL:HG12	2:Cw:215:VAL:HA	1.83	0.58
2:Cw:115:ASN:ND2	3:DS:189:THR:O	2.36	0.58
2:Cx:36:TYR:HE2	2:Cx:130:PRO:CG	2.15	0.58
3:D0:14:PHE:O	3:D0:15:MET:HB2	2.02	0.58
3:D2:14:PHE:O	3:D2:15:MET:HB2	2.02	0.58
3:DF:14:PHE:O	3:DF:15:MET:HB2	2.02	0.58
3:DH:56:ILE:HD12	3:DH:56:ILE:N	2.18	0.58
3:DI:100:TYR:CE1	3:DI:167:MET:HB2	2.37	0.58
3:DL:100:TYR:CE2	3:DL:167:MET:HB2	2.37	0.58
3:DX:100:TYR:CE1	3:DX:167:MET:HB2	2.37	0.58
3:Dc:94:SER:HB3	3:Dc:169:VAL:HG13	1.85	0.58
3:Di:56:ILE:HD12	3:Di:56:ILE:N	2.18	0.58
3:EB:94:SER:HB3	3:EB:169:VAL:HG13	1.85	0.58
3:EB:100:TYR:CE2	3:EB:167:MET:HB2	2.37	0.58
3:EC:80:LEU:HD12	3:EC:80:LEU:N	2.18	0.58
1:A0:156:PHE:CD2	3:D1:25:LEU:HD12	2.38	0.58
1:A2:115:THR:HG22	1:A2:131:GLN:OE1	2.02	0.58
1:A5:156:PHE:CD2	3:D6:25:LEU:HD12	2.38	0.58
1:A5:178:THR:O	1:A5:180:GLU:N	2.36	0.58
1:A6:173:GLY:HA3	2:C7:188:LEU:O	2.03	0.58
1:A9:156:PHE:CD2	3:Da:25:LEU:HD12	2.38	0.58
1:AA:173:GLY:HA3	2:CA:188:LEU:O	2.03	0.58
1:AB:178:THR:O	1:AB:180:GLU:N	2.36	0.58
1:AG:173:GLY:CA	2:CG:188:LEU:O	2.50	0.58
1:AH:88:PHE:CE2	1:AH:146:ILE:HG21	2.37	0.58
1:AH:136:ALA:H	1:AI:39:ASP:HB2	1.67	0.58
1:AK:84:LEU:O	1:AK:155:GLY:HA2	2.03	0.58
1:AK:112:PRO:HG3	3:DL:223:PRO:HD3	1.85	0.58
1:AN:40:VAL:O	1:AN:41:GLU:HB2	2.03	0.58
1:AN:156:PHE:CD2	3:DN:25:LEU:HD12	2.38	0.58
1:AO:112:PRO:HG3	3:DK:223:PRO:HD3	1.85	0.58
1:AP:156:PHE:CD2	3:DP:25:LEU:HD12	2.38	0.58
1:AT:173:GLY:HA3	2:CU:188:LEU:O	2.03	0.58
1:AU:178:THR:O	1:AU:180:GLU:N	2.36	0.58
1:AV:40:VAL:O	1:AV:41:GLU:HB2	2.03	0.58
1:AW:178:THR:O	1:AW:180:GLU:N	2.36	0.58
1:AX:209:LEU:O	1:AX:210:ARG:HG2	2.01	0.58
1:Ac:84:LEU:O	1:Ac:155:GLY:HA2	2.03	0.58
1:Ac:156:PHE:CD2	3:De:25:LEU:HD12	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Af:5:GLY:O	1:Af:6:GLU:HB3	2.01	0.58
1:Ag:178:THR:O	1:Ag:180:GLU:N	2.36	0.58
1:Aj:156:PHE:CD2	3:Dl:25:LEU:HD12	2.38	0.58
1:An:40:VAL:O	1:An:41:GLU:HB2	2.03	0.58
1:Ao:156:PHE:CD2	3:DS:25:LEU:HD12	2.38	0.58
1:Ao:209:LEU:O	1:Ao:210:ARG:HG2	2.01	0.58
1:BB:112:PRO:HG3	3:Dr:223:PRO:HD3	1.85	0.58
1:BB:209:LEU:CD1	1:BB:210:ARG:H	2.15	0.58
1:BE:112:PRO:HG3	3:EB:223:PRO:HD3	1.85	0.58
2:C3:35:CYS:O	2:C3:36:TYR:HB2	2.03	0.58
2:C4:115:ASN:ND2	3:EC:189:THR:O	2.35	0.58
2:C4:176:PRO:O	2:C4:192:TRP:NE1	2.35	0.58
2:C5:27:GLN:HG3	2:C5:28:GLY:N	2.17	0.58
2:C5:115:ASN:ND2	3:DG:189:THR:O	2.35	0.58
2:C8:36:TYR:HE2	2:C8:130:PRO:CG	2.15	0.58
2:CA:110:VAL:HG12	2:CA:215:VAL:HA	1.83	0.58
2:CC:115:ASN:HA	3:Dn:119:LYS:CE	2.33	0.58
2:CE:36:TYR:HE2	2:CE:130:PRO:CG	2.15	0.58
2:CE:115:ASN:ND2	3:DF:189:THR:O	2.35	0.58
2:CH:223:ASN:H	2:CH:223:ASN:ND2	2.02	0.58
2:CI:115:ASN:ND2	3:DX:189:THR:O	2.35	0.58
2:CJ:35:CYS:O	2:CJ:36:TYR:HB2	2.03	0.58
2:CL:52:THR:HG23	2:Cj:55:GLY:HA3	1.84	0.58
2:CO:115:ASN:OD1	3:DP:119:LYS:HD2	2.04	0.58
2:CR:35:CYS:O	2:CR:36:TYR:HB2	2.03	0.58
2:CS:55:GLY:HA3	2:Cb:52:THR:HG23	1.84	0.58
2:CU:27:GLN:HG3	2:CU:28:GLY:N	2.17	0.58
2:CU:176:PRO:O	2:CU:192:TRP:NE1	2.36	0.58
2:CW:36:TYR:HE2	2:CW:130:PRO:CG	2.15	0.58
2:CX:55:GLY:HA3	2:Cq:52:THR:HG23	1.84	0.58
2:CX:176:PRO:O	2:CX:192:TRP:NE1	2.35	0.58
2:CZ:27:GLN:HG3	2:CZ:28:GLY:N	2.17	0.58
2:Cc:52:THR:HG23	2:Cv:55:GLY:HA3	1.84	0.58
2:Cc:223:ASN:H	2:Cc:223:ASN:ND2	2.01	0.58
2:Cg:27:GLN:HG3	2:Cg:28:GLY:N	2.17	0.58
2:Cg:115:ASN:ND2	3:D3:189:THR:O	2.35	0.58
2:Cg:223:ASN:H	2:Cg:223:ASN:ND2	2.01	0.58
2:Cj:115:ASN:CA	3:DM:119:LYS:HD2	2.31	0.58
2:Cm:36:TYR:HE2	2:Cm:130:PRO:CG	2.15	0.58
2:Cn:36:TYR:HE2	2:Cn:130:PRO:CG	2.16	0.58
2:Cn:115:ASN:OD1	3:De:119:LYS:HD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cr:115:ASN:HA	3:DI:119:LYS:CE	2.33	0.58
2:Cs:115:ASN:OD1	3:EA:119:LYS:HD2	2.04	0.58
2:Ct:176:PRO:O	2:Ct:192:TRP:NE1	2.36	0.58
2:Ct:223:ASN:H	2:Ct:223:ASN:ND2	2.01	0.58
3:D5:56:ILE:HD12	3:D5:56:ILE:N	2.17	0.58
3:DA:14:PHE:O	3:DA:15:MET:HB2	2.02	0.58
3:DB:100:TYR:CE2	3:DB:167:MET:HB2	2.38	0.58
3:DE:17:SER:O	3:DE:19:PRO:HD3	2.03	0.58
3:DJ:56:ILE:HD12	3:DJ:56:ILE:N	2.18	0.58
3:DL:17:SER:O	3:DL:19:PRO:HD3	2.03	0.58
3:DM:14:PHE:O	3:DM:15:MET:HB2	2.02	0.58
3:DN:80:LEU:HD12	3:DN:80:LEU:N	2.18	0.58
3:DO:14:PHE:O	3:DO:15:MET:HB2	2.01	0.58
3:Da:56:ILE:HD12	3:Da:56:ILE:N	2.18	0.58
3:Da:94:SER:HB3	3:Da:169:VAL:HG13	1.85	0.58
3:Dc:80:LEU:HD12	3:Dc:80:LEU:N	2.18	0.58
3:Dj:17:SER:O	3:Dj:19:PRO:HD3	2.03	0.58
3:Dm:42:ASN:HD22	3:Dm:44:ILE:HG22	1.65	0.58
3:Do:94:SER:HB3	3:Do:169:VAL:HG13	1.85	0.58
3:Dq:94:SER:HB3	3:Dq:169:VAL:HG13	1.85	0.58
3:EE:94:SER:HB3	3:EE:169:VAL:HG13	1.85	0.58
1:A0:84:LEU:O	1:A0:155:GLY:HA2	2.04	0.58
1:A4:102:VAL:HG22	1:A4:199:SER:CB	2.31	0.58
1:A6:40:VAL:O	1:A6:41:GLU:HB2	2.03	0.58
1:AA:102:VAL:HG22	1:AA:199:SER:CB	2.30	0.58
1:AA:224:ILE:HG13	3:DA:89:TYR:CE1	2.37	0.58
1:AB:115:THR:HG22	1:AB:131:GLN:OE1	2.02	0.58
1:AC:156:PHE:CD2	3:DC:25:LEU:HD12	2.38	0.58
1:AK:178:THR:O	1:AK:180:GLU:N	2.36	0.58
1:AP:42:THR:HG21	1:AS:120:GLN:O	2.04	0.58
1:AS:178:THR:O	1:AS:180:GLU:N	2.36	0.58
1:AT:5:GLY:O	1:AT:6:GLU:HB3	2.01	0.58
1:AT:120:GLN:O	1:AU:42:THR:HG21	2.04	0.58
1:AU:136:ALA:H	1:AV:39:ASP:HB2	1.67	0.58
1:AW:136:ALA:H	1:AX:39:ASP:HB2	1.67	0.58
1:AY:40:VAL:O	1:AY:41:GLU:HB2	2.03	0.58
1:AZ:115:THR:HG22	1:AZ:131:GLN:OE1	2.02	0.58
1:Ah:84:LEU:O	1:Ah:155:GLY:HA2	2.04	0.58
1:Ah:207:CYS:H	1:Al:121:LEU:CD2	2.12	0.58
1:Ai:40:VAL:O	1:Ai:41:GLU:HB2	2.03	0.58
1:Ai:178:THR:O	1:Ai:180:GLU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:102:VAL:HG22	1:Am:199:SER:CB	2.31	0.58
1:BC:136:ALA:H	1:BD:39:ASP:HB2	1.67	0.58
1:BC:209:LEU:CD1	1:BC:210:ARG:H	2.15	0.58
1:BE:156:PHE:CD2	3:EA:25:LEU:HD12	2.38	0.58
1:BG:156:PHE:CD2	3:EC:25:LEU:HD12	2.38	0.58
1:BH:84:LEU:O	1:BH:155:GLY:HA2	2.04	0.58
2:C6:176:PRO:O	2:C6:192:TRP:NE1	2.36	0.58
2:C8:78:ALA:HA	2:C8:196:ILE:O	2.02	0.58
2:CB:115:ASN:HA	3:Df:119:LYS:CE	2.33	0.58
2:CC:176:PRO:O	2:CC:192:TRP:NE1	2.36	0.58
2:CI:36:TYR:HE2	2:CI:130:PRO:CG	2.15	0.58
2:CM:115:ASN:HA	3:Di:119:LYS:CE	2.33	0.58
2:CS:15:GLU:HG3	2:CS:29:SER:CB	2.30	0.58
2:CS:115:ASN:HA	3:Dc:119:LYS:CE	2.33	0.58
2:CT:223:ASN:H	2:CT:223:ASN:ND2	2.01	0.58
2:CU:110:VAL:HG12	2:CU:215:VAL:HA	1.83	0.58
2:CX:36:TYR:HE2	2:CX:130:PRO:CG	2.15	0.58
2:Ca:115:ASN:HA	3:DL:119:LYS:CE	2.33	0.58
2:Cj:176:PRO:O	2:Cj:192:TRP:NE1	2.36	0.58
2:Cq:110:VAL:HG12	2:Cq:215:VAL:HA	1.83	0.58
2:Cs:35:CYS:O	2:Cs:36:TYR:HB2	2.03	0.58
2:Cv:35:CYS:O	2:Cv:36:TYR:HB2	2.03	0.58
2:Cw:35:CYS:O	2:Cw:36:TYR:HB2	2.03	0.58
2:Cx:73:GLN:HA	2:Cx:73:GLN:NE2	2.17	0.58
3:D0:17:SER:O	3:D0:19:PRO:HD3	2.03	0.58
3:D2:17:SER:O	3:D2:19:PRO:HD3	2.03	0.58
3:D3:94:SER:HB3	3:D3:169:VAL:HG13	1.85	0.58
3:D6:80:LEU:HD12	3:D6:80:LEU:N	2.18	0.58
3:D8:80:LEU:HD12	3:D8:80:LEU:N	2.18	0.58
3:DA:80:LEU:HD12	3:DA:80:LEU:N	2.18	0.58
3:DD:80:LEU:HD12	3:DD:80:LEU:N	2.18	0.58
3:DF:80:LEU:HD12	3:DF:80:LEU:N	2.18	0.58
3:DG:80:LEU:HD12	3:DG:80:LEU:N	2.18	0.58
3:DP:17:SER:O	3:DP:19:PRO:HD3	2.03	0.58
3:DQ:17:SER:O	3:DQ:19:PRO:HD3	2.03	0.58
3:DS:80:LEU:HD12	3:DS:80:LEU:N	2.18	0.58
3:DX:80:LEU:HD12	3:DX:80:LEU:N	2.18	0.58
3:DZ:56:ILE:HD12	3:DZ:56:ILE:N	2.17	0.58
3:Dn:14:PHE:O	3:Dn:15:MET:HB2	2.02	0.58
3:Dn:17:SER:O	3:Dn:19:PRO:HD3	2.03	0.58
3:Dn:80:LEU:HD12	3:Dn:80:LEU:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:17:SER:O	3:EB:19:PRO:HD3	2.04	0.58
1:A0:121:LEU:CD2	1:A1:207:CYS:H	2.12	0.58
1:A1:120:GLN:O	1:A2:42:THR:HG21	2.04	0.58
1:A1:173:GLY:HA3	2:C2:188:LEU:O	2.02	0.58
1:A6:136:ALA:H	1:A7:39:ASP:HB2	1.67	0.58
1:A7:156:PHE:CD2	3:D8:25:LEU:HD12	2.38	0.58
1:A7:173:GLY:HA3	2:C8:188:LEU:O	2.03	0.58
1:A8:42:THR:HG21	1:Ab:120:GLN:O	2.04	0.58
1:A8:136:ALA:H	1:A9:39:ASP:HB2	1.67	0.58
1:A8:156:PHE:CD2	3:D9:25:LEU:HD12	2.38	0.58
1:A9:136:ALA:H	1:An:39:ASP:HB2	1.67	0.58
1:AB:156:PHE:CD2	3:DB:25:LEU:HD12	2.38	0.58
1:AB:209:LEU:O	1:AB:210:ARG:HG2	2.01	0.58
1:AC:120:GLN:O	1:AD:42:THR:HG21	2.04	0.58
1:AG:84:LEU:O	1:AG:155:GLY:HA2	2.04	0.58
1:AG:120:GLN:O	1:AH:42:THR:HG21	2.04	0.58
1:AL:120:GLN:O	1:AM:42:THR:HG21	2.04	0.58
1:AN:209:LEU:CD1	1:AN:210:ARG:H	2.15	0.58
1:AP:120:GLN:O	1:AQ:42:THR:HG21	2.04	0.58
1:AQ:120:GLN:O	1:AR:42:THR:HG21	2.04	0.58
1:AV:120:GLN:O	1:AW:42:THR:HG21	2.04	0.58
1:AV:173:GLY:HA3	2:CW:188:LEU:O	2.03	0.58
1:AY:86:ILE:N	1:AY:86:ILE:CD1	2.65	0.58
1:Ah:121:LEU:CD2	1:Ai:207:CYS:H	2.12	0.58
1:Ai:112:PRO:HG3	3:Dl:223:PRO:HD3	1.85	0.58
1:Ak:84:LEU:O	1:Ak:155:GLY:HA2	2.04	0.58
1:Am:84:LEU:O	1:Am:155:GLY:HA2	2.04	0.58
1:Am:173:GLY:HA3	2:Co:188:LEU:O	2.03	0.58
1:Ao:223:PRO:HD3	2:CS:158:PHE:CZ	2.37	0.58
1:BD:102:VAL:HG22	1:BD:199:SER:CB	2.31	0.58
1:BG:120:GLN:O	1:BH:42:THR:HG21	2.04	0.58
1:BH:88:PHE:CE2	1:BH:146:ILE:HG21	2.37	0.58
1:BI:178:THR:O	1:BI:180:GLU:N	2.36	0.58
1:BI:223:PRO:HD3	2:Cx:158:PHE:CZ	2.37	0.58
2:C0:115:ASN:ND2	3:DQ:189:THR:O	2.35	0.58
2:C3:115:ASN:OD1	3:DU:119:LYS:HD2	2.03	0.58
2:C7:115:ASN:CA	3:Dm:119:LYS:HD2	2.31	0.58
2:C9:223:ASN:H	2:C9:223:ASN:ND2	2.01	0.58
2:CA:115:ASN:CA	3:DW:119:LYS:HD2	2.31	0.58
2:CF:35:CYS:O	2:CF:36:TYR:HB2	2.03	0.58
2:CF:176:PRO:O	2:CF:192:TRP:NE1	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:36:TYR:HE2	2:CH:130:PRO:CG	2.15	0.58
2:CH:115:ASN:OD1	3:Ds:119:LYS:HD2	2.03	0.58
2:CL:36:TYR:HE2	2:CL:130:PRO:CG	2.15	0.58
2:CL:115:ASN:HA	3:Dk:119:LYS:CE	2.33	0.58
2:CL:115:ASN:OD1	3:Dk:119:LYS:HD2	2.03	0.58
2:CP:115:ASN:HA	3:D1:119:LYS:CE	2.33	0.58
2:CP:176:PRO:O	2:CP:192:TRP:NE1	2.36	0.58
2:CS:36:TYR:HE2	2:CS:130:PRO:CG	2.15	0.58
2:CS:176:PRO:O	2:CS:192:TRP:NE1	2.36	0.58
2:CX:52:THR:HG23	2:Cq:55:GLY:HA3	1.84	0.58
2:CZ:115:ASN:CA	3:Dq:119:LYS:HD2	2.31	0.58
2:Ca:36:TYR:HE2	2:Ca:130:PRO:CG	2.15	0.58
2:Ca:115:ASN:ND2	3:DL:189:THR:O	2.36	0.58
2:Cc:35:CYS:O	2:Cc:36:TYR:HB2	2.03	0.58
2:Cd:36:TYR:HE2	2:Cd:130:PRO:CG	2.15	0.58
2:Ce:176:PRO:O	2:Ce:192:TRP:NE1	2.36	0.58
2:Ci:115:ASN:HA	3:Dj:119:LYS:CE	2.33	0.58
2:Cl:115:ASN:HA	3:D8:119:LYS:CE	2.33	0.58
2:Cm:223:ASN:H	2:Cm:223:ASN:ND2	2.01	0.58
2:Cn:223:ASN:H	2:Cn:223:ASN:ND2	2.01	0.58
2:Cw:115:ASN:HA	3:DS:119:LYS:CE	2.33	0.58
3:D1:56:ILE:HD12	3:D1:56:ILE:N	2.18	0.58
3:D5:100:TYR:CE1	3:D5:167:MET:HB2	2.37	0.58
3:D7:80:LEU:HD12	3:D7:80:LEU:N	2.18	0.58
3:D7:94:SER:HB3	3:D7:169:VAL:HG13	1.85	0.58
3:DA:94:SER:HB3	3:DA:169:VAL:HG13	1.85	0.58
3:DC:80:LEU:HD12	3:DC:80:LEU:N	2.18	0.58
3:DF:53:PHE:CE2	3:DF:205:LEU:HB3	2.31	0.58
3:DG:17:SER:O	3:DG:19:PRO:HD3	2.03	0.58
3:DL:94:SER:HB3	3:DL:169:VAL:HG13	1.85	0.58
3:DO:94:SER:HB3	3:DO:169:VAL:HG13	1.85	0.58
3:DV:80:LEU:HD12	3:DV:80:LEU:N	2.18	0.58
3:Db:17:SER:O	3:Db:19:PRO:HD3	2.03	0.58
3:Db:80:LEU:HD12	3:Db:80:LEU:N	2.18	0.58
3:Dd:80:LEU:HD12	3:Dd:80:LEU:N	2.18	0.58
3:De:42:ASN:HD22	3:De:44:ILE:HG22	1.65	0.58
3:Dg:80:LEU:HD12	3:Dg:80:LEU:N	2.18	0.58
3:Dj:94:SER:HB3	3:Dj:169:VAL:HG13	1.85	0.58
3:Dr:94:SER:HB3	3:Dr:169:VAL:HG13	1.85	0.58
3:Ds:56:ILE:HD12	3:Ds:56:ILE:N	2.17	0.58
3:EA:17:SER:O	3:EA:19:PRO:HD3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EA:42:ASN:HD22	3:EA:44:ILE:HG22	1.65	0.58
3:EB:80:LEU:HD12	3:EB:80:LEU:N	2.18	0.58
3:ED:94:SER:HB3	3:ED:169:VAL:HG13	1.85	0.58
1:A2:218:MET:HB3	3:D3:40:PHE:CE1	2.39	0.58
1:A4:178:THR:O	1:A4:180:GLU:N	2.36	0.58
1:A8:39:ASP:HB2	1:Ab:136:ALA:H	1.67	0.58
1:A8:120:GLN:O	1:A9:42:THR:HG21	2.04	0.58
1:AF:40:VAL:O	1:AF:41:GLU:HB2	2.03	0.58
1:AF:42:THR:HG21	1:AJ:120:GLN:O	2.04	0.58
1:AH:112:PRO:HG3	3:DI:223:PRO:HD3	1.85	0.58
1:AI:120:GLN:O	1:AJ:42:THR:HG21	2.04	0.58
1:AJ:84:LEU:O	1:AJ:155:GLY:HA2	2.04	0.58
1:AK:120:GLN:O	1:AL:42:THR:HG21	2.04	0.58
1:AK:121:LEU:CD2	1:AL:207:CYS:H	2.12	0.58
1:AK:173:GLY:HA3	2:CK:188:LEU:O	2.03	0.58
1:AN:112:PRO:HG3	3:DO:223:PRO:HD3	1.85	0.58
1:AN:173:GLY:HA3	2:CN:188:LEU:O	2.02	0.58
1:AQ:84:LEU:O	1:AQ:155:GLY:HA2	2.04	0.58
1:AR:40:VAL:O	1:AR:41:GLU:HB2	2.03	0.58
1:AR:156:PHE:CD2	3:DR:25:LEU:HD12	2.38	0.58
1:AT:218:MET:HB3	3:DU:40:PHE:CE1	2.39	0.58
1:AU:156:PHE:CD2	3:DV:25:LEU:HD12	2.38	0.58
1:AV:178:THR:O	1:AV:180:GLU:N	2.36	0.58
1:AW:112:PRO:HG3	3:DY:223:PRO:HD3	1.85	0.58
1:AW:156:PHE:CD2	3:DX:25:LEU:HD12	2.38	0.58
1:AX:86:ILE:N	1:AX:86:ILE:CD1	2.65	0.58
1:AY:102:VAL:HG22	1:AY:199:SER:CB	2.30	0.58
1:Ad:156:PHE:CD2	3:Df:25:LEU:HD12	2.38	0.58
1:Ad:218:MET:HB3	3:Df:40:PHE:CE1	2.39	0.58
1:Ae:84:LEU:O	1:Ae:155:GLY:HA2	2.04	0.58
1:Ae:120:GLN:O	1:Af:42:THR:HG21	2.04	0.58
1:Ag:84:LEU:O	1:Ag:155:GLY:HA2	2.03	0.58
1:Ai:156:PHE:CD2	3:Dk:25:LEU:HD12	2.38	0.58
1:Aj:112:PRO:HG3	3:Dm:223:PRO:HD3	1.85	0.58
1:Am:178:THR:O	1:Am:180:GLU:N	2.36	0.58
1:BC:112:PRO:HG3	3:Ds:223:PRO:HD3	1.85	0.58
2:C8:223:ASN:H	2:C8:223:ASN:ND2	2.01	0.58
2:CF:223:ASN:H	2:CF:223:ASN:ND2	2.01	0.58
2:CK:115:ASN:HA	3:Db:119:LYS:CE	2.33	0.58
2:CQ:115:ASN:OD1	3:Dp:119:LYS:HD2	2.03	0.58
2:CR:115:ASN:HA	3:EE:119:LYS:CE	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:35:CYS:O	2:CT:36:TYR:HB2	2.03	0.58
2:CW:35:CYS:O	2:CW:36:TYR:HB2	2.03	0.58
2:CX:223:ASN:H	2:CX:223:ASN:ND2	2.01	0.58
2:Cb:36:TYR:HE2	2:Cb:130:PRO:CG	2.15	0.58
2:Cf:115:ASN:CA	3:DV:119:LYS:HD2	2.31	0.58
2:Cg:115:ASN:OD1	3:D3:119:LYS:HD2	2.03	0.58
2:Ch:176:PRO:O	2:Ch:192:TRP:NE1	2.35	0.58
2:Cj:115:ASN:OD1	3:DM:119:LYS:HD2	2.03	0.58
2:Ck:73:GLN:HA	2:Ck:73:GLN:NE2	2.17	0.58
2: Cm:176:PRO:O	2: Cm:192:TRP:NE1	2.36	0.58
2:Cu:176:PRO:O	2:Cu:192:TRP:NE1	2.35	0.58
2:Cw:15:GLU:HG3	2:Cw:29:SER:CB	2.30	0.58
2:Cw:115:ASN:OD1	3:DS:119:LYS:HD2	2.04	0.58
3:D7:42:ASN:HD22	3:D7:44:ILE:HG22	1.65	0.58
3:DA:17:SER:O	3:DA:19:PRO:HD3	2.03	0.58
3:DF:56:ILE:HD12	3:DF:56:ILE:N	2.17	0.58
3:DG:94:SER:HB3	3:DG:169:VAL:HG13	1.85	0.58
3:DK:56:ILE:HD12	3:DK:56:ILE:N	2.18	0.58
3:DN:17:SER:O	3:DN:19:PRO:HD3	2.03	0.58
3:DN:94:SER:HB3	3:DN:169:VAL:HG13	1.85	0.58
3:DR:94:SER:HB3	3:DR:169:VAL:HG13	1.85	0.58
3:DS:42:ASN:HD22	3:DS:44:ILE:HG22	1.65	0.58
3:DY:100:TYR:CE2	3:DY:167:MET:HB2	2.37	0.58
3:De:80:LEU:HD12	3:De:80:LEU:N	2.18	0.58
3:Ds:80:LEU:HD12	3:Ds:80:LEU:N	2.18	0.58
1:A0:112:PRO:HG3	3:D2:223:PRO:HD3	1.85	0.58
1:A0:173:GLY:HA3	2:C1:188:LEU:O	2.03	0.58
1:A0:178:THR:O	1:A0:180:GLU:N	2.36	0.58
1:A0:218:MET:HB3	3:D1:40:PHE:CE1	2.39	0.58
1:A1:178:THR:O	1:A1:180:GLU:N	2.36	0.58
1:A2:112:PRO:HG3	3:DZ:223:PRO:HD3	1.85	0.58
1:A2:120:GLN:O	1:AY:42:THR:HG21	2.04	0.58
1:A2:156:PHE:CD2	3:D3:25:LEU:HD12	2.38	0.58
1:A3:156:PHE:CD2	3:D4:25:LEU:HD12	2.38	0.58
1:A3:218:MET:HB3	3:D4:40:PHE:CE1	2.39	0.58
1:A4:156:PHE:CD2	3:D5:25:LEU:HD12	2.38	0.58
1:A6:5:GLY:O	1:A6:6:GLU:HB3	2.01	0.58
1:A6:218:MET:HB3	3:D7:40:PHE:CE1	2.39	0.58
1:A7:84:LEU:O	1:A7:155:GLY:HA2	2.03	0.58
1:A9:120:GLN:O	1:An:42:THR:HG21	2.04	0.58
1:AA:84:LEU:O	1:AA:155:GLY:HA2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:120:GLN:O	1:AB:42:THR:HG21	2.04	0.58
1:AD:156:PHE:CD2	3:DD:25:LEU:HD12	2.38	0.58
1:AF:84:LEU:O	1:AF:155:GLY:HA2	2.04	0.58
1:AG:5:GLY:O	1:AG:6:GLU:HB3	2.01	0.58
1:AI:173:GLY:HA3	2:CI:188:LEU:O	2.02	0.58
1:AI:178:THR:O	1:AI:180:GLU:N	2.36	0.58
1:AL:84:LEU:O	1:AL:155:GLY:HA2	2.04	0.58
1:AL:178:THR:O	1:AL:180:GLU:N	2.36	0.58
1:AL:218:MET:HB3	3:DL:40:PHE:CE1	2.39	0.58
1:AM:218:MET:HB3	3:DM:40:PHE:CE1	2.39	0.58
1:AN:120:GLN:O	1:AO:42:THR:HG21	2.04	0.58
1:AN:218:MET:HB3	3:DN:40:PHE:CE1	2.39	0.58
1:AP:112:PRO:HG3	3:DQ:223:PRO:HD3	1.85	0.58
1:AP:218:MET:HB3	3:DP:40:PHE:CE1	2.39	0.58
1:AR:84:LEU:O	1:AR:155:GLY:HA2	2.04	0.58
1:AU:88:PHE:CE2	1:AU:146:ILE:HG21	2.37	0.58
1:AW:84:LEU:O	1:AW:155:GLY:HA2	2.03	0.58
1:Aa:218:MET:HB3	3:Dc:40:PHE:CE1	2.39	0.58
1:Ad:84:LEU:O	1:Ad:155:GLY:HA2	2.04	0.58
1:Af:84:LEU:O	1:Af:155:GLY:HA2	2.04	0.58
1:Af:156:PHE:CD2	3:Dh:25:LEU:HD12	2.38	0.58
1:Ag:209:LEU:CD1	1:Ag:210:ARG:H	2.15	0.58
1:Ah:39:ASP:HB2	1:Al:136:ALA:H	1.67	0.58
1:Ah:40:VAL:O	1:Ah:41:GLU:HB2	2.03	0.58
1:Ah:120:GLN:O	1:Ai:42:THR:HG21	2.04	0.58
1:Ah:156:PHE:CD2	3:Dj:25:LEU:HD12	2.38	0.58
1:Aj:115:THR:HG22	1:Aj:131:GLN:OE1	2.02	0.58
1:Ak:40:VAL:O	1:Ak:41:GLU:HB2	2.03	0.58
1:Ak:156:PHE:CD2	3:Dm:25:LEU:HD12	2.38	0.58
1:Am:40:VAL:O	1:Am:41:GLU:HB2	2.03	0.58
1:Am:120:GLN:O	1:BA:42:THR:HG21	2.04	0.58
1:Am:218:MET:HB3	3:Do:40:PHE:CE1	2.39	0.58
1:BA:84:LEU:O	1:BA:155:GLY:HA2	2.04	0.58
1:BD:84:LEU:O	1:BD:155:GLY:HA2	2.04	0.58
1:BF:40:VAL:O	1:BF:41:GLU:HB2	2.03	0.58
1:BF:120:GLN:O	1:BG:42:THR:HG21	2.04	0.58
1:BF:156:PHE:CD2	3:EB:25:LEU:HD12	2.38	0.58
1:BG:218:MET:HB3	3:EC:40:PHE:CE1	2.39	0.58
2:C1:115:ASN:ND2	3:DO:189:THR:O	2.35	0.58
2:C8:115:ASN:HA	3:D9:119:LYS:CE	2.33	0.58
2:CA:223:ASN:H	2:CA:223:ASN:ND2	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:115:ASN:OD1	3:Df:119:LYS:HD2	2.03	0.58
2:CD:115:ASN:HA	3:D7:119:LYS:CE	2.33	0.58
2:CG:27:GLN:HG3	2:CG:28:GLY:N	2.17	0.58
2:CG:55:GLY:HA3	2:Ct:52:THR:HG23	1.84	0.58
2:CI:176:PRO:O	2:CI:192:TRP:NE1	2.36	0.58
2:CL:55:GLY:HA3	2:Cj:52:THR:HG23	1.84	0.58
2:CM:36:TYR:HE2	2:CM:130:PRO:CG	2.15	0.58
2:CN:115:ASN:HA	3:D2:119:LYS:CE	2.33	0.58
2:CO:35:CYS:O	2:CO:36:TYR:HB2	2.03	0.58
2:CP:223:ASN:H	2:CP:223:ASN:ND2	2.01	0.58
2:CQ:35:CYS:O	2:CQ:36:TYR:HB2	2.03	0.58
2:CV:115:ASN:HA	3:DB:119:LYS:CE	2.33	0.58
2:Cc:176:PRO:O	2:Cc:192:TRP:NE1	2.35	0.58
2:Ce:115:ASN:HA	3:DC:119:LYS:CE	2.33	0.58
2:Cf:35:CYS:O	2:Cf:36:TYR:HB2	2.03	0.58
2:Cj:115:ASN:HA	3:DM:119:LYS:CE	2.33	0.58
2:Co:115:ASN:OD1	3:DR:119:LYS:HD2	2.03	0.58
2:Cq:115:ASN:HA	3:DY:119:LYS:CE	2.33	0.58
2:Cs:52:THR:HG23	2:Cx:55:GLY:HA3	1.84	0.58
2:Cv:27:GLN:HG3	2:Cv:28:GLY:N	2.17	0.58
2:Cw:223:ASN:H	2:Cw:223:ASN:ND2	2.01	0.58
3:D3:17:SER:O	3:D3:19:PRO:HD3	2.03	0.58
3:D7:17:SER:O	3:D7:19:PRO:HD3	2.03	0.58
3:D9:17:SER:O	3:D9:19:PRO:HD3	2.03	0.58
3:DD:100:TYR:CE1	3:DD:167:MET:HB2	2.37	0.58
3:DW:42:ASN:HD22	3:DW:44:ILE:HG22	1.65	0.58
3:De:94:SER:HB3	3:De:169:VAL:HG13	1.85	0.58
3:Dk:42:ASN:HD22	3:Dk:44:ILE:HG22	1.65	0.58
3:Dm:94:SER:HB3	3:Dm:169:VAL:HG13	1.85	0.58
3:Dp:94:SER:HB3	3:Dp:169:VAL:HG13	1.85	0.58
3:Dr:42:ASN:HD22	3:Dr:44:ILE:HG22	1.65	0.58
3:Dr:80:LEU:HD12	3:Dr:80:LEU:N	2.18	0.58
3:Ds:94:SER:HB3	3:Ds:169:VAL:HG13	1.85	0.58
3:EA:56:ILE:N	3:EA:56:ILE:HD12	2.18	0.58
1:A3:39:ASP:HB2	1:A7:136:ALA:H	1.67	0.58
1:A3:42:THR:HG21	1:A7:120:GLN:O	2.04	0.58
1:A3:112:PRO:HG3	3:D5:223:PRO:HD3	1.85	0.58
1:A4:112:PRO:HG3	3:D6:223:PRO:HD3	1.85	0.58
1:A5:136:ALA:H	1:A6:39:ASP:HB2	1.67	0.58
1:A6:84:LEU:O	1:A6:155:GLY:HA2	2.04	0.58
1:A8:112:PRO:HG3	3:Da:223:PRO:HD3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:102:VAL:HG22	1:AC:199:SER:CB	2.31	0.58
1:AD:5:GLY:O	1:AD:6:GLU:HB3	2.01	0.58
1:AD:218:MET:HB3	3:DD:40:PHE:CE1	2.39	0.58
1:AH:156:PHE:CD2	3:DH:25:LEU:HD12	2.38	0.58
1:AM:5:GLY:O	1:AM:6:GLU:HB3	2.02	0.58
1:AQ:156:PHE:CD2	3:DQ:25:LEU:HD12	2.38	0.58
1:AR:178:THR:O	1:AR:180:GLU:N	2.36	0.58
1:AS:209:LEU:CD1	1:AS:210:ARG:H	2.15	0.58
1:AT:84:LEU:O	1:AT:155:GLY:HA2	2.03	0.58
1:AV:84:LEU:O	1:AV:155:GLY:HA2	2.04	0.58
1:AV:86:ILE:N	1:AV:86:ILE:CD1	2.65	0.58
1:AW:115:THR:HG22	1:AW:131:GLN:OE1	2.02	0.58
1:AX:40:VAL:O	1:AX:41:GLU:HB2	2.03	0.58
1:AX:178:THR:O	1:AX:180:GLU:N	2.36	0.58
1:Aa:156:PHE:CD2	3:Dc:25:LEU:HD12	2.38	0.58
1:Ab:218:MET:HB3	3:Dd:40:PHE:CE1	2.39	0.58
1:Ad:136:ALA:H	1:Ae:39:ASP:HB2	1.67	0.58
1:Af:218:MET:HB3	3:Dh:40:PHE:CE1	2.39	0.58
1:Ah:112:PRO:HG3	3:Dk:223:PRO:HD3	1.85	0.58
1:Aj:120:GLN:O	1:Ak:42:THR:HG21	2.04	0.58
1:Ak:178:THR:O	1:Ak:180:GLU:N	2.36	0.58
1:Al:156:PHE:CD2	3:Dn:25:LEU:HD12	2.38	0.58
1:Am:42:THR:HG21	1:BD:120:GLN:O	2.04	0.58
1:Am:88:PHE:CE2	1:Am:146:ILE:HG21	2.37	0.58
1:BA:120:GLN:O	1:BB:42:THR:HG21	2.04	0.58
1:BB:120:GLN:O	1:BC:42:THR:HG21	2.04	0.58
1:BC:102:VAL:HG22	1:BC:199:SER:CB	2.31	0.58
1:BD:173:GLY:HA3	2:Cs:188:LEU:O	2.02	0.58
1:BF:178:THR:O	1:BF:180:GLU:N	2.36	0.58
1:BH:178:THR:O	1:BH:180:GLU:N	2.36	0.58
1:BI:156:PHE:CD2	3:EE:25:LEU:HD12	2.38	0.58
2:C3:15:GLU:HG3	2:C3:29:SER:CB	2.30	0.58
2:C4:35:CYS:O	2:C4:36:TYR:HB2	2.03	0.58
2:C4:223:ASN:H	2:C4:223:ASN:ND2	2.01	0.58
2:C5:115:ASN:CA	3:DG:119:LYS:HD2	2.31	0.58
2:C8:115:ASN:ND2	3:D9:189:THR:O	2.35	0.58
2:CC:223:ASN:H	2:CC:223:ASN:ND2	2.01	0.58
2:CE:52:THR:HG23	2:CJ:55:GLY:HA3	1.84	0.58
2:CE:115:ASN:HA	3:DF:119:LYS:CE	2.33	0.58
2:CG:115:ASN:HA	3:EB:119:LYS:CE	2.33	0.58
2:CI:115:ASN:CA	3:DX:119:LYS:HD2	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:55:GLY:HA3	2:Ch:52:THR:HG23	1.84	0.58
2:CN:115:ASN:CA	3:D2:119:LYS:HD2	2.31	0.58
2:CV:115:ASN:ND2	3:DB:189:THR:O	2.36	0.58
2:Cb:115:ASN:OD1	3:DT:119:LYS:HD2	2.03	0.58
2:Cc:115:ASN:HA	3:ED:119:LYS:CE	2.33	0.58
2:Cd:223:ASN:H	2:Cd:223:ASN:ND2	2.01	0.58
2:Cl:176:PRO:O	2:Cl:192:TRP:NE1	2.35	0.58
2:Cm:35:CYS:O	2:Cm:36:TYR:HB2	2.03	0.58
2:Cs:55:GLY:HA3	2:Cx:52:THR:HG23	1.85	0.58
2:Cx:35:CYS:O	2:Cx:36:TYR:HB2	2.03	0.58
3:D4:17:SER:O	3:D4:19:PRO:HD3	2.03	0.58
3:D5:17:SER:O	3:D5:19:PRO:HD3	2.03	0.58
3:D9:56:ILE:HD12	3:D9:56:ILE:N	2.18	0.58
3:DB:56:ILE:HD12	3:DB:56:ILE:N	2.18	0.58
3:DI:17:SER:O	3:DI:19:PRO:HD3	2.03	0.58
3:DM:17:SER:O	3:DM:19:PRO:HD3	2.03	0.58
3:DO:80:LEU:HD12	3:DO:80:LEU:N	2.18	0.58
3:DT:17:SER:O	3:DT:19:PRO:HD3	2.03	0.58
3:DU:17:SER:O	3:DU:19:PRO:HD3	2.03	0.58
3:DV:94:SER:HB3	3:DV:169:VAL:HG13	1.85	0.58
3:Dc:17:SER:O	3:Dc:19:PRO:HD3	2.03	0.58
3:Dg:94:SER:HB3	3:Dg:169:VAL:HG13	1.85	0.58
3:Dh:94:SER:HB3	3:Dh:169:VAL:HG13	1.85	0.58
3:Di:80:LEU:HD12	3:Di:80:LEU:N	2.18	0.58
3:Dk:56:ILE:HD12	3:Dk:56:ILE:N	2.18	0.58
3:ED:56:ILE:HD12	3:ED:56:ILE:N	2.18	0.58
1:A4:218:MET:HB3	3:D5:40:PHE:CE1	2.39	0.58
1:A5:40:VAL:O	1:A5:41:GLU:HB2	2.03	0.58
1:A5:120:GLN:O	1:A6:42:THR:HG21	2.04	0.58
1:A7:218:MET:HB3	3:D8:40:PHE:CE1	2.39	0.58
1:AB:84:LEU:O	1:AB:155:GLY:HA2	2.03	0.58
1:AE:88:PHE:CE2	1:AE:146:ILE:HG21	2.37	0.58
1:AE:178:THR:O	1:AE:180:GLU:N	2.36	0.58
1:AF:120:GLN:O	1:AG:42:THR:HG21	2.04	0.58
1:AG:173:GLY:HA3	2:CG:188:LEU:O	2.03	0.58
1:AK:156:PHE:CD2	3:DK:25:LEU:HD12	2.38	0.58
1:AM:136:ALA:H	1:AN:39:ASP:HB2	1.67	0.58
1:AP:86:ILE:N	1:AP:86:ILE:CD1	2.65	0.58
1:AP:102:VAL:HG22	1:AP:199:SER:CB	2.31	0.58
1:AP:178:THR:O	1:AP:180:GLU:N	2.36	0.58
1:AQ:130:ILE:HD11	1:AQ:135:VAL:CG1	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:156:PHE:CD2	3:DU:25:LEU:HD12	2.38	0.58
1:AW:40:VAL:O	1:AW:41:GLU:HB2	2.03	0.58
1:AX:156:PHE:CD2	3:DY:25:LEU:HD12	2.38	0.58
1:AY:136:ALA:H	1:AZ:39:ASP:HB2	1.67	0.58
1:AZ:156:PHE:CD2	3:D0:25:LEU:HD12	2.38	0.58
1:Aa:84:LEU:O	1:Aa:155:GLY:HA2	2.04	0.58
1:Ac:42:THR:HG21	1:Ag:120:GLN:O	2.04	0.58
1:Ac:178:THR:O	1:Ac:180:GLU:N	2.36	0.58
1:Ai:84:LEU:O	1:Ai:155:GLY:HA2	2.04	0.58
1:Ai:120:GLN:O	1:Aj:42:THR:HG21	2.04	0.58
1:Aj:5:GLY:O	1:Aj:6:GLU:HB3	2.01	0.58
1:Aj:218:MET:HB3	3:Dl:40:PHE:CE1	2.39	0.58
1:An:112:PRO:HG3	3:Dc:223:PRO:HD3	1.85	0.58
1:BA:218:MET:HB3	3:Dp:40:PHE:CE1	2.39	0.58
1:BB:136:ALA:H	1:BC:39:ASP:HB2	1.67	0.58
1:BD:178:THR:O	1:BD:180:GLU:N	2.36	0.58
1:BE:207:CYS:H	1:BI:121:LEU:CD2	2.12	0.58
2:C4:115:ASN:OD1	3:EC:119:LYS:HD2	2.04	0.58
2:C6:98:VAL:O	2:C6:98:VAL:HG12	2.04	0.58
2:C8:115:ASN:OD1	3:D9:119:LYS:HD2	2.04	0.58
2:C8:176:PRO:O	2:C8:192:TRP:NE1	2.35	0.58
2:CB:223:ASN:H	2:CB:223:ASN:ND2	2.01	0.58
2:CF:98:VAL:O	2:CF:98:VAL:HG12	2.04	0.58
2:CG:98:VAL:O	2:CG:98:VAL:HG12	2.04	0.58
2:CM:223:ASN:H	2:CM:223:ASN:ND2	2.01	0.58
2:CT:98:VAL:HG12	2:CT:98:VAL:O	2.04	0.58
2:CU:55:GLY:HA3	2:Cf:52:THR:HG23	1.84	0.58
2:CU:98:VAL:HG12	2:CU:98:VAL:O	2.04	0.58
2:CU:115:ASN:OD1	3:Dg:119:LYS:HD2	2.03	0.58
2:CV:110:VAL:HG12	2:CV:215:VAL:HA	1.83	0.58
2:Cd:115:ASN:OD1	3:D4:119:LYS:HD2	2.04	0.58
2:Ce:35:CYS:O	2:Ce:36:TYR:HB2	2.03	0.58
2:Ci:176:PRO:O	2:Ci:192:TRP:NE1	2.36	0.58
2:Co:115:ASN:HA	3:DR:119:LYS:CE	2.33	0.58
2:Cq:35:CYS:O	2:Cq:36:TYR:HB2	2.03	0.58
2:Cq:36:TYR:HE2	2:Cq:130:PRO:CG	2.15	0.58
2:Cq:98:VAL:O	2:Cq:98:VAL:HG12	2.04	0.58
2:Ct:115:ASN:HA	3:DH:119:LYS:CE	2.33	0.58
3:D5:80:LEU:HD12	3:D5:80:LEU:N	2.18	0.58
3:D6:56:ILE:N	3:D6:56:ILE:HD12	2.17	0.58
3:DF:94:SER:HB3	3:DF:169:VAL:HG13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DI:94:SER:HB3	3:DI:169:VAL:HG13	1.85	0.58
3:DM:94:SER:HB3	3:DM:169:VAL:HG13	1.85	0.58
3:DX:17:SER:O	3:DX:19:PRO:HD3	2.03	0.58
3:DY:80:LEU:HD12	3:DY:80:LEU:N	2.18	0.58
3:Dj:53:PHE:CE2	3:Dj:205:LEU:HB3	2.31	0.58
3:DI:80:LEU:HD12	3:DI:80:LEU:N	2.18	0.58
3:Dr:14:PHE:O	3:Dr:15:MET:HB2	2.02	0.58
1:A1:218:MET:HB3	3:D2:40:PHE:CE1	2.39	0.58
1:A4:120:GLN:O	1:A5:42:THR:HG21	2.04	0.58
1:A5:102:VAL:HG22	1:A5:199:SER:CB	2.30	0.58
1:A5:218:MET:HB3	3:D6:40:PHE:CE1	2.39	0.58
1:AB:40:VAL:O	1:AB:41:GLU:HB2	2.03	0.58
1:AB:120:GLN:O	1:AC:42:THR:HG21	2.04	0.58
1:AC:178:THR:O	1:AC:180:GLU:N	2.36	0.58
1:AD:178:THR:O	1:AD:180:GLU:N	2.36	0.58
1:AF:88:PHE:CE2	1:AF:146:ILE:HG21	2.37	0.58
1:AF:173:GLY:HA3	2:CF:188:LEU:O	2.03	0.58
1:AG:218:MET:HB3	3:DG:40:PHE:CE1	2.39	0.58
1:AI:156:PHE:CD2	3:DI:25:LEU:HD12	2.38	0.58
1:AN:178:THR:O	1:AN:180:GLU:N	2.36	0.58
1:AO:84:LEU:O	1:AO:155:GLY:HA2	2.04	0.58
1:AT:112:PRO:HG3	3:DV:223:PRO:HD3	1.85	0.58
1:AY:218:MET:HB3	3:DZ:40:PHE:CE1	2.39	0.58
1:Ab:112:PRO:HG3	3:D9:223:PRO:HD3	1.85	0.58
1:Af:120:GLN:O	1:Ag:42:THR:HG21	2.04	0.58
1:Ah:42:THR:HG21	1:Al:120:GLN:O	2.04	0.58
1:Ai:218:MET:HB3	3:Dk:40:PHE:CE1	2.39	0.58
1:Aj:40:VAL:O	1:Aj:41:GLU:HB2	2.03	0.58
1:Al:84:LEU:O	1:Al:155:GLY:HA2	2.04	0.58
1:An:218:MET:HB3	3:Db:40:PHE:CE1	2.39	0.58
1:Ao:218:MET:HB3	3:DS:40:PHE:CE1	2.39	0.58
1:BA:156:PHE:CD2	3:Dp:25:LEU:HD12	2.38	0.58
1:BE:42:THR:HG21	1:BI:120:GLN:O	2.04	0.58
1:BE:173:GLY:HA3	2:Ct:188:LEU:O	2.03	0.58
1:BF:84:LEU:O	1:BF:155:GLY:HA2	2.04	0.58
1:BI:112:PRO:HG3	3:EA:223:PRO:HD3	1.85	0.58
2:C5:35:CYS:O	2:C5:36:TYR:HB2	2.03	0.58
2:C5:52:THR:HG23	2:CF:55:GLY:HA3	1.84	0.58
2:C5:115:ASN:HA	3:DG:119:LYS:CE	2.33	0.58
2:C6:52:THR:HG23	2:CD:55:GLY:HA3	1.84	0.58
2:C6:63:THR:N	3:DE:139:MET:HG3	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:115:ASN:HA	3:DE:119:LYS:CE	2.33	0.58
2:C8:35:CYS:O	2:C8:36:TYR:HB2	2.03	0.58
2:CE:98:VAL:O	2:CE:98:VAL:HG12	2.04	0.58
2:CF:73:GLN:HA	2:CF:73:GLN:NE2	2.17	0.58
2:CH:115:ASN:HA	3:Ds:119:LYS:CE	2.33	0.58
2:CI:55:GLY:HA3	2:CW:52:THR:HG23	1.84	0.58
2:CL:98:VAL:O	2:CL:98:VAL:HG12	2.04	0.58
2:CM:153:GLN:NE2	3:DM:55:SER:HB2	2.19	0.58
2:CS:98:VAL:O	2:CS:98:VAL:HG12	2.04	0.58
2:CW:115:ASN:OD1	3:DJ:119:LYS:HD2	2.04	0.58
2:CX:115:ASN:OD1	3:Dr:119:LYS:HD2	2.03	0.58
2:CY:115:ASN:HA	3:DZ:119:LYS:CE	2.33	0.58
2:Cl:35:CYS:O	2:Cl:36:TYR:HB2	2.03	0.58
2:Cl:223:ASN:H	2:Cl:223:ASN:ND2	2.01	0.58
2:Cm:115:ASN:CA	3:DD:119:LYS:HD2	2.31	0.58
2:Co:35:CYS:O	2:Co:36:TYR:HB2	2.03	0.58
2:Cp:35:CYS:O	2:Cp:36:TYR:HB2	2.03	0.58
2:Cp:98:VAL:O	2:Cp:98:VAL:HG12	2.04	0.58
2:Cr:223:ASN:H	2:Cr:223:ASN:ND2	2.01	0.58
2:Cs:160:HIS:HD1	2:Cs:160:HIS:H	1.52	0.58
2:Cv:160:HIS:HD1	2:Cv:160:HIS:H	1.52	0.58
2:Cw:176:PRO:O	2:Cw:192:TRP:NE1	2.35	0.58
2:Cx:98:VAL:O	2:Cx:98:VAL:HG12	2.04	0.58
3:D0:94:SER:HB3	3:D0:169:VAL:HG13	1.85	0.58
3:D9:80:LEU:HD12	3:D9:80:LEU:N	2.18	0.58
3:DJ:17:SER:O	3:DJ:19:PRO:HD3	2.03	0.58
3:DN:42:ASN:HD22	3:DN:44:ILE:HG22	1.65	0.58
3:DS:17:SER:O	3:DS:19:PRO:HD3	2.04	0.58
3:DS:94:SER:HB3	3:DS:169:VAL:HG13	1.85	0.58
3:DV:17:SER:O	3:DV:19:PRO:HD3	2.03	0.58
3:DV:42:ASN:HD22	3:DV:44:ILE:HG22	1.66	0.58
3:DV:56:ILE:HD12	3:DV:56:ILE:N	2.17	0.58
3:Dm:17:SER:O	3:Dm:19:PRO:HD3	2.03	0.58
3:Dp:17:SER:O	3:Dp:19:PRO:HD3	2.03	0.58
3:EC:17:SER:O	3:EC:19:PRO:HD3	2.03	0.58
3:EC:94:SER:HB3	3:EC:169:VAL:HG13	1.85	0.58
3:ED:17:SER:O	3:ED:19:PRO:HD3	2.03	0.58
1:A0:42:THR:HG21	1:AZ:120:GLN:O	2.04	0.58
1:A2:178:THR:O	1:A2:180:GLU:N	2.36	0.58
1:A5:206:GLY:O	1:A5:207:CYS:SG	2.62	0.58
1:A8:178:THR:O	1:A8:180:GLU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:218:MET:HB3	3:DB:40:PHE:CE1	2.39	0.58
1:AD:112:PRO:HG3	3:DE:223:PRO:HD3	1.85	0.58
1:AE:84:LEU:O	1:AE:155:GLY:HA2	2.04	0.58
1:AF:112:PRO:HG3	3:DG:223:PRO:HD3	1.85	0.58
1:AF:156:PHE:CD2	3:DF:25:LEU:HD12	2.38	0.58
1:AF:178:THR:O	1:AF:180:GLU:N	2.36	0.58
1:AH:40:VAL:O	1:AH:41:GLU:HB2	2.03	0.58
1:AM:173:GLY:HA3	2:CM:188:LEU:O	2.02	0.58
1:AP:84:LEU:O	1:AP:155:GLY:HA2	2.04	0.58
1:AS:39:ASP:HB2	1:Ao:136:ALA:H	1.67	0.58
1:AU:173:GLY:HA3	2:CV:188:LEU:O	2.02	0.58
1:AX:112:PRO:HG3	3:DU:223:PRO:HD3	1.85	0.58
1:AY:156:PHE:CD2	3:DZ:25:LEU:HD12	2.38	0.58
1:Aa:187:LEU:CD2	1:Aa:188:PRO:HD2	2.25	0.58
1:Ab:156:PHE:CD2	3:Dd:25:LEU:HD12	2.38	0.58
1:Ad:40:VAL:O	1:Ad:41:GLU:HB2	2.03	0.58
1:Ak:120:GLN:O	1:Al:42:THR:HG21	2.04	0.58
1:Ao:84:LEU:O	1:Ao:155:GLY:HA2	2.04	0.58
1:BC:218:MET:HB3	3:Dr:40:PHE:CE1	2.39	0.58
1:BE:178:THR:O	1:BE:180:GLU:N	2.36	0.58
1:BE:218:MET:HB3	3:EA:40:PHE:CE1	2.39	0.58
2:C0:52:THR:HG23	2:CP:55:GLY:HA3	1.84	0.58
2:C6:115:ASN:OD1	3:DE:119:LYS:HD2	2.03	0.58
2:C9:36:TYR:HE2	2:C9:130:PRO:CG	2.15	0.58
2:CB:55:GLY:HA3	2:Ce:52:THR:HG23	1.84	0.58
2:CD:223:ASN:H	2:CD:223:ASN:ND2	2.01	0.58
2:CE:115:ASN:OD1	3:DF:119:LYS:HD2	2.03	0.58
2:CF:115:ASN:HA	3:D6:119:LYS:CE	2.33	0.58
2:CG:73:GLN:HA	2:CG:73:GLN:NE2	2.17	0.58
2:CI:115:ASN:HA	3:DX:119:LYS:CE	2.33	0.58
2:CI:115:ASN:OD1	3:DX:119:LYS:HD2	2.03	0.58
2:CJ:36:TYR:HE2	2:CJ:130:PRO:CG	2.15	0.58
2:CK:223:ASN:H	2:CK:223:ASN:ND2	2.01	0.58
2:CU:115:ASN:HA	3:Dg:119:LYS:CE	2.33	0.58
2:CV:223:ASN:H	2:CV:223:ASN:ND2	2.01	0.58
2:CW:63:THR:N	3:DJ:139:MET:HG3	2.19	0.58
2:CX:115:ASN:HA	3:Dr:119:LYS:CE	2.33	0.58
2:CX:160:HIS:HD1	2:CX:160:HIS:H	1.52	0.58
2:Ca:153:GLN:NE2	3:Da:55:SER:HB2	2.19	0.58
2:Cm:115:ASN:OD1	3:DD:119:LYS:HD2	2.04	0.58
2:Co:63:THR:N	3:DR:139:MET:HG3	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cq:63:THR:N	3:DY:139:MET:HG3	2.19	0.58
2:Ct:115:ASN:OD1	3:DH:119:LYS:HD2	2.03	0.58
2:Cv:63:THR:N	3:D5:139:MET:HG3	2.19	0.58
2:Cv:115:ASN:OD1	3:D5:119:LYS:HD2	2.04	0.58
2:Cv:98:VAL:HG12	2:Cv:98:VAL:O	2.04	0.58
3:D5:94:SER:HB3	3:D5:169:VAL:HG13	1.85	0.58
3:DH:94:SER:HB3	3:DH:169:VAL:HG13	1.85	0.58
3:DM:56:ILE:HD12	3:DM:56:ILE:N	2.18	0.58
3:DX:56:ILE:HD12	3:DX:56:ILE:N	2.18	0.58
3:Db:42:ASN:HD22	3:Db:44:ILE:HG22	1.65	0.58
3:Db:94:SER:HB3	3:Db:169:VAL:HG13	1.85	0.58
3:De:17:SER:O	3:De:19:PRO:HD3	2.03	0.58
1:A1:84:LEU:O	1:A1:155:GLY:HA2	2.04	0.57
1:A2:102:VAL:HG22	1:A2:199:SER:CB	2.31	0.57
1:A3:173:GLY:HA3	2:C4:188:LEU:O	2.03	0.57
1:A3:178:THR:O	1:A3:180:GLU:N	2.36	0.57
1:A4:84:LEU:O	1:A4:155:GLY:HA2	2.04	0.57
1:A8:102:VAL:HG22	1:A8:199:SER:CB	2.31	0.57
1:A9:84:LEU:O	1:A9:155:GLY:HA2	2.04	0.57
1:AE:173:GLY:HA3	2:CE:188:LEU:O	2.03	0.57
1:AH:206:GLY:O	1:AH:207:CYS:SG	2.62	0.57
1:AK:42:THR:HG21	1:AO:120:GLN:O	2.04	0.57
1:AL:102:VAL:HG22	1:AL:199:SER:CB	2.31	0.57
1:AM:120:GLN:O	1:AN:42:THR:HG21	2.04	0.57
1:AS:84:LEU:O	1:AS:155:GLY:HA2	2.04	0.57
1:AT:40:VAL:O	1:AT:41:GLU:HB2	2.03	0.57
1:AU:218:MET:HB3	3:DV:40:PHE:CE1	2.39	0.57
1:Aa:42:THR:HG21	1:An:120:GLN:O	2.04	0.57
1:Ab:84:LEU:O	1:Ab:155:GLY:HA2	2.04	0.57
1:Ac:40:VAL:O	1:Ac:41:GLU:HB2	2.03	0.57
1:Ad:178:THR:O	1:Ad:180:GLU:N	2.36	0.57
1:Ae:178:THR:O	1:Ae:180:GLU:N	2.36	0.57
1:An:178:THR:O	1:An:180:GLU:N	2.36	0.57
1:BC:84:LEU:O	1:BC:155:GLY:HA2	2.04	0.57
1:BD:112:PRO:HG3	3:Do:223:PRO:HD3	1.85	0.57
1:BI:84:LEU:O	1:BI:155:GLY:HA2	2.03	0.57
1:BI:218:MET:HB3	3:EE:40:PHE:CE1	2.39	0.57
2:C3:98:VAL:HG12	2:C3:98:VAL:O	2.04	0.57
2:C5:63:THR:N	3:DG:139:MET:HG3	2.19	0.57
2:C5:98:VAL:HG12	2:C5:98:VAL:O	2.04	0.57
2:C7:35:CYS:O	2:C7:36:TYR:HB2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:35:CYS:O	2:C9:36:TYR:HB2	2.03	0.57
2:C9:115:ASN:OD1	3:D1:119:LYS:HD2	2.03	0.57
2:CB:35:CYS:O	2:CB:36:TYR:HB2	2.03	0.57
2:CK:98:VAL:HG12	2:CK:98:VAL:O	2.04	0.57
2:CN:153:GLN:NE2	3:DN:55:SER:HB2	2.19	0.57
2:CP:115:ASN:OD1	3:D1:119:LYS:HD2	2.04	0.57
2:CQ:36:TYR:HE2	2:CQ:130:PRO:CG	2.15	0.57
2:CQ:52:THR:HG23	2:Co:55:GLY:HA3	1.84	0.57
2:CQ:153:GLN:NE2	3:DQ:55:SER:HB2	2.19	0.57
2:CS:115:ASN:OD1	3:Dc:119:LYS:HD2	2.04	0.57
2:CU:63:THR:N	3:Dg:139:MET:HG3	2.19	0.57
2:CX:153:GLN:NE2	3:DX:55:SER:HB2	2.19	0.57
2:CY:63:THR:N	3:DZ:139:MET:HG3	2.19	0.57
2:CY:176:PRO:O	2:CY:192:TRP:NE1	2.36	0.57
2:Cb:115:ASN:HA	3:DT:119:LYS:CE	2.33	0.57
2:Cg:63:THR:N	3:D3:139:MET:HG3	2.19	0.57
2:Ch:35:CYS:O	2:Ch:36:TYR:HB2	2.03	0.57
2:Ch:98:VAL:O	2:Ch:98:VAL:HG12	2.04	0.57
2:Ch:115:ASN:HA	3:DN:119:LYS:CE	2.33	0.57
2:Ci:115:ASN:OD1	3:Dj:119:LYS:HD2	2.03	0.57
2:Cn:63:THR:N	3:De:139:MET:HG3	2.19	0.57
2:Cu:153:GLN:NE2	3:EB:55:SER:HB2	2.19	0.57
2:Cv:115:ASN:HA	3:Dd:119:LYS:CE	2.33	0.57
2:Cv:115:ASN:OD1	3:Dd:119:LYS:HD2	2.03	0.57
3:D1:17:SER:O	3:D1:19:PRO:HD3	2.03	0.57
3:D3:53:PHE:CE2	3:D3:205:LEU:HB3	2.31	0.57
3:D9:14:PHE:O	3:D9:15:MET:HB2	2.02	0.57
3:DD:17:SER:O	3:DD:19:PRO:HD3	2.03	0.57
3:DK:17:SER:O	3:DK:19:PRO:HD3	2.03	0.57
3:DU:80:LEU:HD12	3:DU:80:LEU:N	2.18	0.57
3:DY:17:SER:O	3:DY:19:PRO:HD3	2.03	0.57
1:A2:206:GLY:O	1:A2:207:CYS:SG	2.63	0.57
1:A9:40:VAL:O	1:A9:41:GLU:HB2	2.03	0.57
1:A9:178:THR:O	1:A9:180:GLU:N	2.36	0.57
1:A9:206:GLY:O	1:A9:207:CYS:SG	2.62	0.57
1:AA:206:GLY:O	1:AA:207:CYS:SG	2.62	0.57
1:AE:206:GLY:O	1:AE:207:CYS:SG	2.63	0.57
1:AF:218:MET:HB3	3:DF:40:PHE:CE1	2.39	0.57
1:AG:156:PHE:CD2	3:DG:25:LEU:HD12	2.38	0.57
1:AI:112:PRO:HG3	3:DJ:223:PRO:HD3	1.85	0.57
1:AJ:206:GLY:O	1:AJ:207:CYS:SG	2.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:178:THR:O	1:AM:180:GLU:N	2.36	0.57
1:AM:206:GLY:O	1:AM:207:CYS:SG	2.63	0.57
1:AP:121:LEU:CD2	1:AQ:207:CYS:H	2.12	0.57
1:AP:206:GLY:O	1:AP:207:CYS:SG	2.63	0.57
1:AT:206:GLY:O	1:AT:207:CYS:SG	2.62	0.57
1:AU:84:LEU:O	1:AU:155:GLY:HA2	2.04	0.57
1:Aa:178:THR:O	1:Aa:180:GLU:N	2.36	0.57
1:Ac:218:MET:HB3	3:De:40:PHE:CE1	2.39	0.57
1:Ae:156:PHE:CD2	3:Dg:25:LEU:HD12	2.38	0.57
1:Af:40:VAL:O	1:Af:41:GLU:HB2	2.03	0.57
1:Ag:40:VAL:O	1:Ag:41:GLU:HB2	2.03	0.57
1:Ag:173:GLY:HA3	2:Ci:188:LEU:O	2.02	0.57
1:Aj:84:LEU:O	1:Aj:155:GLY:HA2	2.04	0.57
1:BA:178:THR:O	1:BA:180:GLU:N	2.36	0.57
1:BB:84:LEU:O	1:BB:155:GLY:HA2	2.04	0.57
1:BE:40:VAL:O	1:BE:41:GLU:HB2	2.03	0.57
1:BE:120:GLN:O	1:BF:42:THR:HG21	2.04	0.57
1:BG:84:LEU:O	1:BG:155:GLY:HA2	2.04	0.57
1:BG:102:VAL:HG22	1:BG:199:SER:CB	2.30	0.57
1:BG:112:PRO:HG3	3:ED:223:PRO:HD3	1.85	0.57
1:BH:40:VAL:O	1:BH:41:GLU:HB2	2.03	0.57
2:C0:35:CYS:O	2:C0:36:TYR:HB2	2.03	0.57
2:C0:115:ASN:CA	3:DQ:119:LYS:HD2	2.31	0.57
2:C0:153:GLN:NE2	3:D0:55:SER:HB2	2.20	0.57
2:C3:52:THR:HG23	2:CY:55:GLY:HA3	1.84	0.57
2:CC:63:THR:N	3:Dn:139:MET:HG3	2.19	0.57
2:CC:115:ASN:OD1	3:Dn:119:LYS:HD2	2.03	0.57
2:CJ:115:ASN:OD1	3:DA:119:LYS:HD2	2.04	0.57
2:CL:35:CYS:O	2:CL:36:TYR:HB2	2.03	0.57
2:CN:63:THR:N	3:D2:139:MET:HG3	2.19	0.57
2:CP:63:THR:N	3:D1:139:MET:HG3	2.19	0.57
2:CQ:63:THR:N	3:Dp:139:MET:HG3	2.19	0.57
2:CX:63:THR:N	3:Dr:139:MET:HG3	2.19	0.57
2:Cf:63:THR:N	3:DV:139:MET:HG3	2.19	0.57
2:Cf:153:GLN:NE2	3:Df:55:SER:HB2	2.19	0.57
2:Cj:15:GLU:HG3	2:Cj:29:SER:CB	2.30	0.57
2:Ck:115:ASN:OD1	3:Da:119:LYS:HD2	2.03	0.57
2:Ck:153:GLN:NE2	3:Dk:55:SER:HB2	2.19	0.57
2:Cq:115:ASN:OD1	3:DY:119:LYS:HD2	2.03	0.57
2:Cr:35:CYS:O	2:Cr:36:TYR:HB2	2.03	0.57
2:Ct:35:CYS:O	2:Ct:36:TYR:HB2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cv:223:ASN:H	2:Cv:223:ASN:ND2	2.01	0.57
2:Cx:115:ASN:OD1	3:Do:119:LYS:HD2	2.03	0.57
3:D6:42:ASN:HD22	3:D6:44:ILE:HG22	1.65	0.57
3:D8:17:SER:O	3:D8:19:PRO:HD3	2.03	0.57
3:DK:94:SER:HB3	3:DK:169:VAL:HG13	1.85	0.57
3:DT:42:ASN:HD22	3:DT:44:ILE:HG22	1.65	0.57
3:Da:17:SER:O	3:Da:19:PRO:HD3	2.03	0.57
3:Dd:17:SER:O	3:Dd:19:PRO:HD3	2.03	0.57
3:Dj:42:ASN:HD22	3:Dj:44:ILE:HG22	1.65	0.57
3:Dp:56:ILE:HD12	3:Dp:56:ILE:N	2.18	0.57
1:A3:84:LEU:O	1:A3:155:GLY:HA2	2.04	0.57
1:A7:112:PRO:HG3	3:D4:223:PRO:HD3	1.85	0.57
1:AB:86:ILE:N	1:AB:86:ILE:CD1	2.65	0.57
1:AD:84:LEU:O	1:AD:155:GLY:HA2	2.04	0.57
1:AG:178:THR:O	1:AG:180:GLU:N	2.36	0.57
1:AO:206:GLY:O	1:AO:207:CYS:SG	2.63	0.57
1:AQ:178:THR:O	1:AQ:180:GLU:N	2.36	0.57
1:AR:120:GLN:O	1:Ao:42:THR:HG21	2.04	0.57
1:AS:40:VAL:O	1:AS:41:GLU:HB2	2.03	0.57
1:AV:156:PHE:CD2	3:DW:25:LEU:HD12	2.38	0.57
1:AY:84:LEU:O	1:AY:155:GLY:HA2	2.04	0.57
1:AY:112:PRO:HG3	3:D0:223:PRO:HD3	1.85	0.57
1:AY:120:GLN:O	1:AZ:42:THR:HG21	2.04	0.57
1:AZ:84:LEU:O	1:AZ:155:GLY:HA2	2.04	0.57
1:AZ:218:MET:HB3	3:D0:40:PHE:CE1	2.39	0.57
1:Ac:112:PRO:HG3	3:Df:223:PRO:HD3	1.85	0.57
1:Ae:102:VAL:HG22	1:Ae:199:SER:CB	2.30	0.57
1:Ag:218:MET:HB3	3:Di:40:PHE:CE1	2.39	0.57
1:BF:112:PRO:HG3	3:EC:223:PRO:HD3	1.85	0.57
1:BG:178:THR:O	1:BG:180:GLU:N	2.36	0.57
1:BH:120:GLN:O	1:BI:42:THR:HG21	2.04	0.57
1:BH:136:ALA:H	1:BI:39:ASP:HB2	1.67	0.57
1:BI:40:VAL:O	1:BI:41:GLU:HB2	2.03	0.57
2:C0:115:ASN:OD1	3:DQ:119:LYS:HD2	2.04	0.57
2:C2:63:THR:N	3:Dh:139:MET:HG3	2.19	0.57
2:C5:223:ASN:H	2:C5:223:ASN:ND2	2.01	0.57
2:C6:35:CYS:O	2:C6:36:TYR:HB2	2.03	0.57
2:C7:176:PRO:O	2:C7:192:TRP:NE1	2.36	0.57
2:C9:160:HIS:HD1	2:C9:160:HIS:H	1.52	0.57
2:CB:63:THR:N	3:Df:139:MET:HG3	2.19	0.57
2:CD:63:THR:N	3:D7:139:MET:HG3	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:115:ASN:OD1	3:D7:119:LYS:HD2	2.03	0.57
2:CE:35:CYS:O	2:CE:36:TYR:HB2	2.03	0.57
2:CJ:63:THR:N	3:DA:139:MET:HG3	2.19	0.57
2:CJ:115:ASN:HA	3:DA:119:LYS:CE	2.33	0.57
2:CJ:223:ASN:H	2:CJ:223:ASN:ND2	2.01	0.57
2:CK:115:ASN:OD1	3:Db:119:LYS:HD2	2.04	0.57
2:CM:35:CYS:O	2:CM:36:TYR:HB2	2.03	0.57
2:CN:35:CYS:O	2:CN:36:TYR:HB2	2.03	0.57
2:CN:115:ASN:OD1	3:D2:119:LYS:HD2	2.03	0.57
2:CO:153:GLN:NE2	3:DO:55:SER:HB2	2.19	0.57
2:CS:153:GLN:NE2	3:DS:55:SER:HB2	2.19	0.57
2:CY:115:ASN:OD1	3:DZ:119:LYS:HD2	2.03	0.57
2:CZ:115:ASN:HA	3:Dq:119:LYS:CE	2.33	0.57
2:Ca:35:CYS:O	2:Ca:36:TYR:HB2	2.03	0.57
2:Cc:153:GLN:NE2	3:Dc:55:SER:HB2	2.20	0.57
2:Cd:153:GLN:NE2	3:Dd:55:SER:HB2	2.19	0.57
2:Ce:98:VAL:O	2:Ce:98:VAL:HG12	2.04	0.57
2:Cf:115:ASN:HA	3:DV:119:LYS:CE	2.33	0.57
2:Cj:153:GLN:NE2	3:Dj:55:SER:HB2	2.19	0.57
2:Cm:115:ASN:HA	3:DD:119:LYS:CE	2.33	0.57
2:Cn:115:ASN:HA	3:De:119:LYS:CE	2.33	0.57
2:Cr:153:GLN:NE2	3:Dr:55:SER:HB2	2.20	0.57
2:Cs:63:THR:N	3:EA:139:MET:HG3	2.19	0.57
2:Ct:153:GLN:NE2	3:EA:55:SER:HB2	2.19	0.57
2:Cu:115:ASN:HA	3:D5:119:LYS:CE	2.33	0.57
2:Cv:176:PRO:O	2:Cv:192:TRP:NE1	2.36	0.57
3:DB:17:SER:O	3:DB:19:PRO:HD3	2.03	0.57
3:DC:94:SER:HB3	3:DC:169:VAL:HG13	1.85	0.57
3:DE:94:SER:HB3	3:DE:169:VAL:HG13	1.85	0.57
3:DG:53:PHE:CE2	3:DG:205:LEU:HB3	2.31	0.57
3:DT:94:SER:HB3	3:DT:169:VAL:HG13	1.85	0.57
3:Dq:17:SER:O	3:Dq:19:PRO:HD3	2.03	0.57
3:Dr:17:SER:O	3:Dr:19:PRO:HD3	2.03	0.57
3:Ds:100:TYR:CE2	3:Ds:167:MET:HB2	2.37	0.57
1:A8:218:MET:HB3	3:D9:40:PHE:CE1	2.39	0.57
1:AH:218:MET:HB3	3:DH:40:PHE:CE1	2.39	0.57
1:AS:206:GLY:O	1:AS:207:CYS:SG	2.63	0.57
1:AT:42:THR:HG21	1:AX:120:GLN:O	2.04	0.57
1:AT:102:VAL:HG22	1:AT:199:SER:CB	2.30	0.57
1:Af:112:PRO:HG3	3:Di:223:PRO:HD3	1.85	0.57
1:Ah:206:GLY:O	1:Ah:207:CYS:SG	2.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:206:GLY:O	1:Ak:207:CYS:SG	2.62	0.57
1:Ao:40:VAL:O	1:Ao:41:GLU:HB2	2.03	0.57
1:BB:40:VAL:O	1:BB:41:GLU:HB2	2.03	0.57
1:BG:40:VAL:O	1:BG:41:GLU:HB2	2.03	0.57
2:C0:63:THR:N	3:DQ:139:MET:HG3	2.19	0.57
2:C2:115:ASN:OD1	3:Dh:119:LYS:HD2	2.03	0.57
2:C4:63:THR:N	3:EC:139:MET:HG3	2.19	0.57
2:CE:223:ASN:H	2:CE:223:ASN:ND2	2.01	0.57
2:CF:115:ASN:CA	3:D6:119:LYS:HD2	2.31	0.57
2:CI:52:THR:HG23	2:CW:55:GLY:HA3	1.84	0.57
2:CI:63:THR:N	3:DX:139:MET:HG3	2.19	0.57
2:CI:153:GLN:NE2	3:DI:55:SER:HB2	2.19	0.57
2:CL:153:GLN:NE2	3:DL:55:SER:HB2	2.19	0.57
2:CN:176:PRO:O	2:CN:192:TRP:NE1	2.35	0.57
2:CN:223:ASN:H	2:CN:223:ASN:ND2	2.02	0.57
2:CO:115:ASN:HA	3:DP:119:LYS:CE	2.33	0.57
2:CV:98:VAL:HG12	2:CV:98:VAL:O	2.04	0.57
2:CW:98:VAL:O	2:CW:98:VAL:HG12	2.04	0.57
2:CY:153:GLN:NE2	3:DY:55:SER:HB2	2.19	0.57
2:CZ:115:ASN:OD1	3:Dq:119:LYS:HD2	2.04	0.57
2:Ca:98:VAL:HG12	2:Ca:98:VAL:O	2.04	0.57
2:Cb:98:VAL:O	2:Cb:98:VAL:HG12	2.04	0.57
2:Cb:153:GLN:NE2	3:Db:55:SER:HB2	2.19	0.57
2:Cc:115:ASN:OD1	3:ED:119:LYS:HD2	2.04	0.57
2:Ce:115:ASN:OD1	3:DC:119:LYS:HD2	2.04	0.57
2:Cf:115:ASN:OD1	3:DV:119:LYS:HD2	2.03	0.57
2:Ch:63:THR:N	3:DN:139:MET:HG3	2.19	0.57
2:Ck:35:CYS:O	2:Ck:36:TYR:HB2	2.03	0.57
2:Cl:115:ASN:OD1	3:D8:119:LYS:HD2	2.03	0.57
2:Cl:153:GLN:NE2	3:Dl:55:SER:HB2	2.19	0.57
2:Cr:115:ASN:CA	3:DI:119:LYS:HD2	2.31	0.57
2:Ct:98:VAL:HG12	2:Ct:98:VAL:O	2.04	0.57
2:Ct:115:ASN:CA	3:DH:119:LYS:HD2	2.31	0.57
2:Cu:35:CYS:O	2:Cu:36:TYR:HB2	2.03	0.57
2:Cv:115:ASN:CA	3:Dd:119:LYS:HD2	2.31	0.57
3:D8:14:PHE:O	3:D8:15:MET:HB2	2.02	0.57
3:DK:61:TYR:HB3	3:DK:205:LEU:HD23	1.87	0.57
3:DR:17:SER:O	3:DR:19:PRO:HD3	2.03	0.57
3:Da:61:TYR:HB3	3:Da:205:LEU:HD23	1.87	0.57
3:Dd:94:SER:HB3	3:Dd:169:VAL:HG13	1.85	0.57
3:Di:94:SER:HB3	3:Di:169:VAL:HG13	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dk:94:SER:HB3	3:Dk:169:VAL:HG13	1.85	0.57
1:A0:39:ASP:HB2	1:AZ:136:ALA:H	1.67	0.57
1:A0:136:ALA:H	1:A1:39:ASP:HB2	1.67	0.57
1:A0:207:CYS:H	1:AZ:121:LEU:CD2	2.12	0.57
1:A1:40:VAL:O	1:A1:41:GLU:HB2	2.03	0.57
1:A4:206:GLY:O	1:A4:207:CYS:SG	2.63	0.57
1:A9:218:MET:HB3	3:Da:40:PHE:CE1	2.39	0.57
1:AC:121:LEU:CD2	1:AD:207:CYS:H	2.12	0.57
1:AC:206:GLY:O	1:AC:207:CYS:SG	2.63	0.57
1:AC:218:MET:HB3	3:DC:40:PHE:CE1	2.39	0.57
1:AD:206:GLY:O	1:AD:207:CYS:SG	2.62	0.57
1:AE:156:PHE:CD2	3:DE:25:LEU:HD12	2.38	0.57
1:AF:206:GLY:O	1:AF:207:CYS:SG	2.62	0.57
1:AF:207:CYS:H	1:AJ:121:LEU:CD2	2.12	0.57
1:AI:40:VAL:O	1:AI:41:GLU:HB2	2.03	0.57
1:AI:84:LEU:O	1:AI:155:GLY:HA2	2.04	0.57
1:AI:218:MET:HB3	3:DI:40:PHE:CE1	2.39	0.57
1:AM:40:VAL:O	1:AM:41:GLU:HB2	2.03	0.57
1:AN:121:LEU:CD2	1:AO:207:CYS:H	2.12	0.57
1:AR:218:MET:HB3	3:DR:40:PHE:CE1	2.39	0.57
1:AS:42:THR:HG21	1:Ao:120:GLN:O	2.04	0.57
1:AU:40:VAL:O	1:AU:41:GLU:HB2	2.03	0.57
1:AU:120:GLN:O	1:AV:42:THR:HG21	2.04	0.57
1:AV:112:PRO:HG3	3:DX:223:PRO:HD3	1.85	0.57
1:AZ:86:ILE:N	1:AZ:86:ILE:CD1	2.65	0.57
1:Ac:136:ALA:H	1:Ad:39:ASP:HB2	1.67	0.57
1:Ae:112:PRO:HG3	3:Dh:223:PRO:HD3	1.85	0.57
1:Af:206:GLY:O	1:Af:207:CYS:SG	2.63	0.57
1:Al:206:GLY:O	1:Al:207:CYS:SG	2.63	0.57
1:Am:121:LEU:CD2	1:BA:207:CYS:H	2.12	0.57
1:BA:40:VAL:O	1:BA:41:GLU:HB2	2.03	0.57
1:BA:112:PRO:HG3	3:Dq:223:PRO:HD3	1.85	0.57
1:BD:156:PHE:CD2	3:Ds:25:LEU:HD12	2.38	0.57
1:BH:206:GLY:O	1:BH:207:CYS:SG	2.62	0.57
2:C1:35:CYS:O	2:C1:36:TYR:HB2	2.03	0.57
2:C1:115:ASN:C	3:DO:119:LYS:HZ3	2.13	0.57
2:C1:153:GLN:NE2	3:D1:55:SER:HB2	2.20	0.57
2:C3:115:ASN:HA	3:DU:119:LYS:CE	2.33	0.57
2:C4:115:ASN:HA	3:EC:119:LYS:CE	2.33	0.57
2:C5:115:ASN:OD1	3:DG:119:LYS:HD2	2.04	0.57
2:CE:153:GLN:NE2	3:DE:55:SER:HB2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:115:ASN:CA	3:Dk:119:LYS:HD2	2.31	0.57
2:CT:63:THR:N	3:DK:139:MET:HG3	2.19	0.57
2:CV:160:HIS:HD1	2:CV:160:HIS:H	1.52	0.57
2:CY:98:VAL:O	2:CY:98:VAL:HG12	2.04	0.57
2:Cc:98:VAL:O	2:Cc:98:VAL:HG12	2.04	0.57
2:Cd:63:THR:N	3:D4:139:MET:HG3	2.19	0.57
2:Ce:223:ASN:H	2:Ce:223:ASN:ND2	2.01	0.57
2:Cm:63:THR:N	3:DD:139:MET:HG3	2.19	0.57
2:Cr:115:ASN:OD1	3:DI:119:LYS:HD2	2.04	0.57
2:Cs:115:ASN:HA	3:EA:119:LYS:CE	2.33	0.57
3:DL:42:ASN:HD22	3:DL:44:ILE:HG22	1.65	0.57
3:DO:17:SER:O	3:DO:19:PRO:HD3	2.03	0.57
3:DW:94:SER:HB3	3:DW:169:VAL:HG13	1.85	0.57
3:Dn:94:SER:HB3	3:Dn:169:VAL:HG13	1.85	0.57
3:Do:17:SER:O	3:Do:19:PRO:HD3	2.03	0.57
1:A1:112:PRO:HG3	3:D3:223:PRO:HD3	1.85	0.57
1:A3:120:GLN:O	1:A4:42:THR:HG21	2.04	0.57
1:A6:112:PRO:HG3	3:D8:223:PRO:HD3	1.85	0.57
1:AC:40:VAL:O	1:AC:41:GLU:HB2	2.03	0.57
1:AC:84:LEU:O	1:AC:155:GLY:HA2	2.04	0.57
1:AG:40:VAL:O	1:AG:41:GLU:HB2	2.03	0.57
1:AH:120:GLN:O	1:AI:42:THR:HG21	2.04	0.57
1:AK:40:VAL:O	1:AK:41:GLU:HB2	2.03	0.57
1:AK:206:GLY:O	1:AK:207:CYS:SG	2.63	0.57
1:AN:103:TRP:HZ2	1:AO:208:TYR:CE2	2.23	0.57
1:AX:84:LEU:O	1:AX:155:GLY:HA2	2.03	0.57
1:AX:218:MET:HB3	3:DY:40:PHE:CE1	2.39	0.57
1:AY:178:THR:O	1:AY:180:GLU:N	2.36	0.57
1:Aa:207:CYS:H	1:An:121:LEU:CD2	2.12	0.57
1:Ae:206:GLY:O	1:Ae:207:CYS:SG	2.62	0.57
1:Ae:218:MET:HB3	3:Dg:40:PHE:CE1	2.39	0.57
1:Ah:218:MET:HB3	3:Dj:40:PHE:CE1	2.39	0.57
1:Aj:206:GLY:O	1:Aj:207:CYS:SG	2.62	0.57
1:BA:102:VAL:HG22	1:BA:199:SER:CB	2.31	0.57
1:BB:173:GLY:HA3	2:Cq:188:LEU:O	2.03	0.57
1:BC:120:GLN:O	1:BD:42:THR:HG21	2.04	0.57
1:BF:218:MET:HB3	3:EB:40:PHE:CE1	2.39	0.57
2:C8:63:THR:N	3:D9:139:MET:HG3	2.19	0.57
2:C8:153:GLN:NE2	3:D8:55:SER:HB2	2.19	0.57
2:C9:115:ASN:HA	3:DI:119:LYS:CE	2.33	0.57
2:CA:160:HIS:HD1	2:CA:160:HIS:H	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:153:GLN:NE2	3:DB:55:SER:HB2	2.20	0.57
2:CG:153:GLN:NE2	3:DG:55:SER:HB2	2.19	0.57
2:CH:35:CYS:O	2:CH:36:TYR:HB2	2.03	0.57
2:CL:223:ASN:H	2:CL:223:ASN:ND2	2.01	0.57
2:CO:73:GLN:HA	2:CO:73:GLN:NE2	2.17	0.57
2:CT:115:ASN:OD1	3:DK:119:LYS:HD2	2.04	0.57
2:CW:153:GLN:NE2	3:DW:55:SER:HB2	2.19	0.57
2:CZ:63:THR:N	3:Dq:139:MET:HG3	2.19	0.57
2:Cb:63:THR:N	3:DT:139:MET:HG3	2.19	0.57
2:Cb:223:ASN:H	2:Cb:223:ASN:ND2	2.01	0.57
2:Ce:153:GLN:NE2	3:De:55:SER:HB2	2.19	0.57
2:Cm:209:VAL:N	2:Cm:210:PRO:CD	2.68	0.57
2:Cp:115:ASN:HA	3:D0:119:LYS:CE	2.33	0.57
2:Ct:63:THR:N	3:DH:139:MET:HG3	2.19	0.57
2:Cv:63:THR:N	3:Dd:139:MET:HG3	2.19	0.57
2:Cw:98:VAL:HG12	2:Cw:98:VAL:O	2.04	0.57
3:DC:61:TYR:HB3	3:DC:205:LEU:HD23	1.87	0.57
3:DF:61:TYR:HB3	3:DF:205:LEU:HD23	1.87	0.57
3:DH:17:SER:O	3:DH:19:PRO:HD3	2.03	0.57
3:DP:61:TYR:HB3	3:DP:205:LEU:HD23	1.87	0.57
3:DQ:42:ASN:HD22	3:DQ:44:ILE:HG22	1.66	0.57
3:DQ:94:SER:HB3	3:DQ:169:VAL:HG13	1.85	0.57
3:Dp:61:TYR:HB3	3:Dp:205:LEU:HD23	1.87	0.57
1:A7:40:VAL:O	1:A7:41:GLU:HB2	2.03	0.57
1:A8:84:LEU:O	1:A8:155:GLY:HA2	2.03	0.57
1:AB:112:PRO:HG3	3:DC:223:PRO:HD3	1.85	0.57
1:AF:86:ILE:N	1:AF:86:ILE:CD1	2.65	0.57
1:AJ:218:MET:HB3	3:DJ:40:PHE:CE1	2.39	0.57
1:AQ:103:TRP:HZ2	1:AR:208:TYR:CE2	2.23	0.57
1:Aa:120:GLN:O	1:Ab:42:THR:HG21	2.04	0.57
1:Ac:120:GLN:O	1:Ad:42:THR:HG21	2.04	0.57
1:An:84:LEU:O	1:An:155:GLY:HA2	2.04	0.57
1:Ao:206:GLY:O	1:Ao:207:CYS:SG	2.63	0.57
2:C1:115:ASN:OD1	3:DO:119:LYS:HD2	2.04	0.57
2:C7:223:ASN:H	2:C7:223:ASN:ND2	2.01	0.57
2:CE:63:THR:N	3:DF:139:MET:HG3	2.19	0.57
2:CF:115:ASN:OD1	3:D6:119:LYS:HD2	2.04	0.57
2:CH:153:GLN:NE2	3:DH:55:SER:HB2	2.19	0.57
2:CI:98:VAL:HG12	2:CI:98:VAL:O	2.04	0.57
2:CM:98:VAL:O	2:CM:98:VAL:HG12	2.04	0.57
2:CN:98:VAL:O	2:CN:98:VAL:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CO:223:ASN:H	2:CO:223:ASN:ND2	2.01	0.57
2:CQ:98:VAL:O	2:CQ:98:VAL:HG12	2.04	0.57
2:CR:115:ASN:OD1	3:EE:119:LYS:HD2	2.04	0.57
2:CR:153:GLN:NE2	3:DR:55:SER:HB2	2.20	0.57
2:Ce:63:THR:N	3:DC:139:MET:HG3	2.19	0.57
2:Cg:98:VAL:O	2:Cg:98:VAL:HG12	2.04	0.57
2:Cg:115:ASN:HA	3:D3:119:LYS:CE	2.33	0.57
2:Cg:153:GLN:NE2	3:Dg:55:SER:HB2	2.19	0.57
2:Cn:153:GLN:NE2	3:Dn:55:SER:HB2	2.19	0.57
2:Cp:115:ASN:OD1	3:D0:119:LYS:HD2	2.04	0.57
2:Cr:63:THR:N	3:DI:139:MET:HG3	2.19	0.57
2:Cw:153:GLN:NE2	3:ED:55:SER:HB2	2.19	0.57
2:Cx:223:ASN:H	2:Cx:223:ASN:ND2	2.01	0.57
3:DB:94:SER:HB3	3:DB:169:VAL:HG13	1.85	0.57
3:DD:61:TYR:HB3	3:DD:205:LEU:HD23	1.87	0.57
3:DL:61:TYR:HB3	3:DL:205:LEU:HD23	1.87	0.57
3:DN:61:TYR:HB3	3:DN:205:LEU:HD23	1.87	0.57
3:DS:53:PHE:CE2	3:DS:205:LEU:HB3	2.31	0.57
3:Dg:61:TYR:HB3	3:Dg:205:LEU:HD23	1.87	0.57
3:Dl:61:TYR:HB3	3:Dl:205:LEU:HD23	1.87	0.57
1:A0:120:GLN:O	1:A1:42:THR:HG21	2.04	0.57
1:A2:103:TRP:HZ2	1:AY:208:TYR:CE2	2.23	0.57
1:A3:103:TRP:HZ2	1:A4:208:TYR:CE2	2.23	0.57
1:A5:112:PRO:HG3	3:D7:223:PRO:HD3	1.85	0.57
1:A6:120:GLN:O	1:A7:42:THR:HG21	2.04	0.57
1:A6:206:GLY:O	1:A6:207:CYS:SG	2.62	0.57
1:A9:121:LEU:CD2	1:An:207:CYS:H	2.12	0.57
1:AA:136:ALA:H	1:AB:39:ASP:HB2	1.67	0.57
1:AP:103:TRP:HZ2	1:AQ:208:TYR:CE2	2.23	0.57
1:AQ:218:MET:HB3	3:DQ:40:PHE:CE1	2.39	0.57
1:AR:206:GLY:O	1:AR:207:CYS:SG	2.63	0.57
1:AV:206:GLY:O	1:AV:207:CYS:SG	2.62	0.57
1:AW:120:GLN:O	1:AX:42:THR:HG21	2.04	0.57
1:Aa:206:GLY:O	1:Aa:207:CYS:SG	2.62	0.57
1:Ac:208:TYR:CE2	1:Ag:103:TRP:HZ2	2.23	0.57
1:Af:102:VAL:HG22	1:Af:199:SER:CB	2.30	0.57
1:Ao:88:PHE:CE2	1:Ao:146:ILE:HG21	2.37	0.57
1:Ao:102:VAL:HG22	1:Ao:199:SER:CB	2.31	0.57
1:BB:156:PHE:CD2	3:Dq:25:LEU:HD12	2.38	0.57
1:BB:218:MET:HB3	3:Dq:40:PHE:CE1	2.39	0.57
1:BF:206:GLY:O	1:BF:207:CYS:SG	2.62	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:223:ASN:H	2:C0:223:ASN:ND2	2.01	0.57
2:C5:153:GLN:NE2	3:D5:55:SER:HB2	2.19	0.57
2:C9:63:THR:N	3:Dl:139:MET:HG3	2.19	0.57
2:CC:98:VAL:O	2:CC:98:VAL:HG12	2.04	0.57
2:CC:153:GLN:NE2	3:DC:55:SER:HB2	2.20	0.57
2:CF:63:THR:N	3:D6:139:MET:HG3	2.19	0.57
2:CT:153:GLN:NE2	3:DT:55:SER:HB2	2.20	0.57
2:CT:209:VAL:N	2:CT:210:PRO:CD	2.68	0.57
2:CZ:98:VAL:O	2:CZ:98:VAL:HG12	2.04	0.57
2:Ca:209:VAL:N	2:Ca:210:PRO:CD	2.68	0.57
2:Cl:63:THR:N	3:D8:139:MET:HG3	2.19	0.57
2:Cm:153:GLN:NE2	3:Dm:55:SER:HB2	2.19	0.57
2:Cn:209:VAL:N	2:Cn:210:PRO:CD	2.68	0.57
2:Cp:63:THR:N	3:D0:139:MET:HG3	2.19	0.57
3:DF:17:SER:O	3:DF:19:PRO:HD3	2.03	0.57
3:DT:61:TYR:HB3	3:DT:205:LEU:HD23	1.87	0.57
3:Di:17:SER:O	3:Di:19:PRO:HD3	2.03	0.57
3:Dj:61:TYR:HB3	3:Dj:205:LEU:HD23	1.87	0.57
3:Dn:61:TYR:HB3	3:Dn:205:LEU:HD23	1.87	0.57
3:Do:61:TYR:HB3	3:Do:205:LEU:HD23	1.87	0.57
3:Ds:17:SER:O	3:Ds:19:PRO:HD3	2.03	0.57
3:EB:61:TYR:HB3	3:EB:205:LEU:HD23	1.87	0.57
1:A4:103:TRP:HZ2	1:A5:208:TYR:CE2	2.23	0.57
1:A5:84:LEU:O	1:A5:155:GLY:HA2	2.04	0.57
1:AA:42:THR:HG21	1:AE:120:GLN:O	2.04	0.57
1:AA:218:MET:HB3	3:DA:40:PHE:CE1	2.39	0.57
1:AD:120:GLN:O	1:AE:42:THR:HG21	2.04	0.57
1:AE:218:MET:HB3	3:DE:40:PHE:CE1	2.39	0.57
1:AF:208:TYR:CE2	1:AJ:103:TRP:HZ2	2.23	0.57
1:AG:206:GLY:O	1:AG:207:CYS:SG	2.63	0.57
1:AK:165:ARG:O	3:DK:34:ARG:HG2	2.05	0.57
1:AL:40:VAL:O	1:AL:41:GLU:HB2	2.03	0.57
1:AS:218:MET:HB3	3:DT:40:PHE:CE1	2.39	0.57
1:AW:121:LEU:CD2	1:AX:207:CYS:H	2.12	0.57
1:AY:206:GLY:O	1:AY:207:CYS:SG	2.63	0.57
1:AZ:112:PRO:HG3	3:D1:223:PRO:HD3	1.85	0.57
1:AZ:206:GLY:O	1:AZ:207:CYS:SG	2.63	0.57
1:Aa:40:VAL:O	1:Aa:41:GLU:HB2	2.03	0.57
1:Ab:206:GLY:O	1:Ab:207:CYS:SG	2.62	0.57
1:Ac:121:LEU:CD2	1:Ad:207:CYS:H	2.12	0.57
1:Ak:86:ILE:N	1:Ak:86:ILE:CD1	2.65	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:218:MET:HB3	3:Dm:40:PHE:CE1	2.39	0.57
1:Am:103:TRP:HZ2	1:BA:208:TYR:CE2	2.23	0.57
1:BB:206:GLY:O	1:BB:207:CYS:SG	2.63	0.57
1:BE:84:LEU:O	1:BE:155:GLY:HA2	2.04	0.57
1:BH:218:MET:HB3	3:ED:40:PHE:CE1	2.39	0.57
2:C2:115:ASN:HA	3:Dh:119:LYS:CE	2.34	0.57
2:C3:63:THR:N	3:DU:139:MET:HG3	2.19	0.57
2:C5:209:VAL:N	2:C5:210:PRO:CD	2.68	0.57
2:C9:98:VAL:O	2:C9:98:VAL:HG12	2.04	0.57
2:C9:153:GLN:NE2	3:D9:55:SER:HB2	2.19	0.57
2:C9:209:VAL:N	2:C9:210:PRO:CD	2.68	0.57
2:CB:98:VAL:O	2:CB:98:VAL:HG12	2.04	0.57
2:CG:115:ASN:OD1	3:EB:119:LYS:HD2	2.03	0.57
2:CS:63:THR:N	3:Dc:139:MET:HG3	2.19	0.57
2:CV:63:THR:N	3:DB:139:MET:HG3	2.19	0.57
2:Ch:153:GLN:NE2	3:Dh:55:SER:HB2	2.20	0.57
2:Ck:98:VAL:HG12	2:Ck:98:VAL:O	2.04	0.57
2:Cl:98:VAL:HG12	2:Cl:98:VAL:O	2.04	0.57
2:Cn:98:VAL:O	2:Cn:98:VAL:HG12	2.04	0.57
2:Cs:98:VAL:O	2:Cs:98:VAL:HG12	2.04	0.57
3:D7:99:GLN:HB2	3:D7:217:ARG:HG3	1.87	0.57
3:DJ:99:GLN:HB2	3:DJ:217:ARG:HG3	1.87	0.57
3:DO:61:TYR:HB3	3:DO:205:LEU:HD23	1.87	0.57
3:DR:61:TYR:HB3	3:DR:205:LEU:HD23	1.87	0.57
3:DY:61:TYR:HB3	3:DY:205:LEU:HD23	1.87	0.57
3:Dd:61:TYR:HB3	3:Dd:205:LEU:HD23	1.87	0.57
3:Di:61:TYR:HB3	3:Di:205:LEU:HD23	1.87	0.57
3:Dk:61:TYR:HB3	3:Dk:205:LEU:HD23	1.87	0.57
3:Do:99:GLN:HB2	3:Do:217:ARG:HG3	1.87	0.57
1:A0:40:VAL:O	1:A0:41:GLU:HB2	2.03	0.57
1:A0:103:TRP:HZ2	1:A1:208:TYR:CE2	2.23	0.57
1:A1:206:GLY:O	1:A1:207:CYS:SG	2.62	0.57
1:A2:84:LEU:O	1:A2:155:GLY:HA2	2.04	0.57
1:A3:206:GLY:O	1:A3:207:CYS:SG	2.63	0.57
1:A9:103:TRP:HZ2	1:An:208:TYR:CE2	2.23	0.57
1:AA:208:TYR:CE2	1:AE:103:TRP:HZ2	2.23	0.57
1:AB:103:TRP:HZ2	1:AC:208:TYR:CE2	2.23	0.57
1:AC:165:ARG:O	3:DC:34:ARG:HG2	2.05	0.57
1:AH:165:ARG:O	3:DH:34:ARG:HG2	2.05	0.57
1:AI:165:ARG:O	3:DI:34:ARG:HG2	2.05	0.57
1:AK:218:MET:HB3	3:DK:40:PHE:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:206:GLY:O	1:AL:207:CYS:SG	2.62	0.57
1:AM:165:ARG:O	3:DM:34:ARG:HG2	2.05	0.57
1:AQ:206:GLY:O	1:AQ:207:CYS:SG	2.62	0.57
1:AT:103:TRP:HZ2	1:AU:208:TYR:CE2	2.23	0.57
1:AU:165:ARG:O	3:DV:34:ARG:HG2	2.05	0.57
1:AV:103:TRP:HZ2	1:AW:208:TYR:CE2	2.23	0.57
1:AX:206:GLY:O	1:AX:207:CYS:SG	2.62	0.57
1:AY:165:ARG:O	3:DZ:34:ARG:HG2	2.05	0.57
1:Ah:208:TYR:CE2	1:Al:103:TRP:HZ2	2.23	0.57
1:Am:208:TYR:CE2	1:BD:103:TRP:HZ2	2.23	0.57
1:BA:165:ARG:O	3:Dp:34:ARG:HG2	2.05	0.57
1:BC:206:GLY:O	1:BC:207:CYS:SG	2.62	0.57
1:BD:206:GLY:O	1:BD:207:CYS:SG	2.63	0.57
1:BD:218:MET:HB3	3:Ds:40:PHE:CE1	2.39	0.57
1:BE:206:GLY:O	1:BE:207:CYS:SG	2.63	0.57
1:BE:208:TYR:CE2	1:BI:103:TRP:HZ2	2.23	0.57
1:BG:206:GLY:O	1:BG:207:CYS:SG	2.62	0.57
2:C6:153:GLN:NE2	3:D6:55:SER:HB2	2.19	0.57
2:C6:209:VAL:N	2:C6:210:PRO:CD	2.68	0.57
2:C7:98:VAL:O	2:C7:98:VAL:HG12	2.04	0.57
2:CA:153:GLN:NE2	3:DA:55:SER:HB2	2.20	0.57
2:CG:63:THR:HG22	3:EB:188:LEU:HD21	1.87	0.57
2:CJ:98:VAL:HG12	2:CJ:98:VAL:O	2.04	0.57
2:CK:63:THR:N	3:Db:139:MET:HG3	2.19	0.57
2:CK:153:GLN:NE2	3:DK:55:SER:HB2	2.19	0.57
2:CN:73:GLN:HA	2:CN:73:GLN:NE2	2.17	0.57
2:CP:98:VAL:O	2:CP:98:VAL:HG12	2.04	0.57
2:CV:35:CYS:O	2:CV:36:TYR:HB2	2.03	0.57
2:CV:115:ASN:OD1	3:DB:119:LYS:HD2	2.04	0.57
2:CW:223:ASN:H	2:CW:223:ASN:ND2	2.01	0.57
2:CX:98:VAL:O	2:CX:98:VAL:HG12	2.04	0.57
2:CX:115:ASN:CA	3:Dr:119:LYS:HD2	2.31	0.57
2:CZ:153:GLN:NE2	3:DZ:55:SER:HB2	2.19	0.57
2:Co:153:GLN:NE2	3:Do:55:SER:HB2	2.19	0.57
2:Cq:153:GLN:NE2	3:Dq:55:SER:HB2	2.19	0.57
2:Cv:153:GLN:NE2	3:EC:55:SER:HB2	2.19	0.57
3:D8:42:ASN:HD22	3:D8:44:ILE:HG22	1.65	0.57
3:D8:61:TYR:HB3	3:D8:205:LEU:HD23	1.87	0.57
3:DE:42:ASN:HD22	3:DE:44:ILE:HG22	1.65	0.57
3:DH:61:TYR:HB3	3:DH:205:LEU:HD23	1.87	0.57
3:DM:61:TYR:HB3	3:DM:205:LEU:HD23	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DS:61:TYR:HB3	3:DS:205:LEU:HD23	1.87	0.57
3:DT:99:GLN:HB2	3:DT:217:ARG:HG3	1.87	0.57
3:Dg:122:VAL:O	3:Dg:143:HIS:HB2	2.05	0.57
1:A1:103:TRP:HZ2	1:A2:208:TYR:CE2	2.23	0.56
1:A9:165:ARG:O	3:Da:34:ARG:HG2	2.05	0.56
1:AW:103:TRP:HZ2	1:AX:208:TYR:CE2	2.23	0.56
1:AW:218:MET:HB3	3:DX:40:PHE:CE1	2.39	0.56
1:Ac:102:VAL:HG22	1:Ac:199:SER:CB	2.30	0.56
1:Ad:120:GLN:O	1:Ae:42:THR:HG21	2.04	0.56
1:Ad:165:ARG:O	3:Df:34:ARG:HG2	2.05	0.56
1:Ae:103:TRP:HZ2	1:Af:208:TYR:CE2	2.23	0.56
1:Ag:88:PHE:HE1	1:Ag:205:GLY:C	2.13	0.56
1:Aj:103:TRP:HZ2	1:Ak:208:TYR:CE2	2.23	0.56
1:Al:218:MET:HB3	3:Dn:40:PHE:CE1	2.39	0.56
1:Am:206:GLY:O	1:Am:207:CYS:SG	2.62	0.56
1:Ao:165:ARG:O	3:DS:34:ARG:HG2	2.05	0.56
1:BE:165:ARG:O	3:EA:34:ARG:HG2	2.05	0.56
1:BH:165:ARG:O	3:ED:34:ARG:HG2	2.05	0.56
1:BI:206:GLY:O	1:BI:207:CYS:SG	2.63	0.56
2:C0:98:VAL:O	2:C0:98:VAL:HG12	2.04	0.56
2:C4:115:ASN:CA	3:EC:119:LYS:HD2	2.31	0.56
2:CA:63:THR:N	3:DW:139:MET:HG3	2.19	0.56
2:CM:63:THR:HG22	3:Di:188:LEU:HD21	1.87	0.56
2:CN:84:PRO:HD3	2:CN:108:TRP:HZ2	1.70	0.56
2:CO:63:THR:N	3:DP:139:MET:HG3	2.19	0.56
2:CP:36:TYR:HE2	2:CP:130:PRO:HG3	1.70	0.56
2:Cj:35:CYS:O	2:Cj:36:TYR:HB2	2.03	0.56
2:Ck:63:THR:N	3:Da:139:MET:HG3	2.19	0.56
2:Cs:115:ASN:CA	3:EA:119:LYS:HD2	2.31	0.56
2:Cw:63:THR:N	3:DS:139:MET:HG3	2.19	0.56
2:Cx:63:THR:N	3:Do:139:MET:HG3	2.19	0.56
3:D1:99:GLN:HB2	3:D1:217:ARG:HG3	1.87	0.56
3:D8:99:GLN:HB2	3:D8:217:ARG:HG3	1.87	0.56
3:DM:99:GLN:HB2	3:DM:217:ARG:HG3	1.87	0.56
3:DQ:122:VAL:O	3:DQ:143:HIS:HB2	2.05	0.56
3:DR:42:ASN:HD22	3:DR:44:ILE:HG22	1.66	0.56
3:DU:94:SER:HB3	3:DU:169:VAL:HG13	1.85	0.56
3:DW:122:VAL:O	3:DW:143:HIS:HB2	2.06	0.56
3:DZ:61:TYR:HB3	3:DZ:205:LEU:HD23	1.87	0.56
1:A0:206:GLY:O	1:A0:207:CYS:SG	2.63	0.56
1:A3:40:VAL:O	1:A3:41:GLU:HB2	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:165:ARG:O	3:D5:34:ARG:HG2	2.05	0.56
1:A7:206:GLY:O	1:A7:207:CYS:SG	2.62	0.56
1:A8:206:GLY:O	1:A8:207:CYS:SG	2.62	0.56
1:A9:88:PHE:HE1	1:A9:205:GLY:C	2.14	0.56
1:AC:103:TRP:HZ2	1:AD:208:TYR:CE2	2.23	0.56
1:AD:165:ARG:O	3:DD:34:ARG:HG2	2.05	0.56
1:AF:165:ARG:O	3:DF:34:ARG:HG2	2.05	0.56
1:AM:84:LEU:O	1:AM:155:GLY:HA2	2.04	0.56
1:AO:218:MET:HB3	3:DO:40:PHE:CE1	2.39	0.56
1:AW:165:ARG:O	3:DX:34:ARG:HG2	2.05	0.56
1:Ad:206:GLY:O	1:Ad:207:CYS:SG	2.62	0.56
1:Ag:165:ARG:O	3:Di:34:ARG:HG2	2.05	0.56
1:Ak:103:TRP:HZ2	1:Al:208:TYR:CE2	2.23	0.56
1:An:165:ARG:O	3:Db:34:ARG:HG2	2.05	0.56
1:Ao:112:PRO:HG3	3:DT:223:PRO:HD3	1.85	0.56
1:BE:103:TRP:HZ2	1:BF:208:TYR:CE2	2.23	0.56
2:C2:98:VAL:O	2:C2:98:VAL:HG12	2.04	0.56
2:C7:115:ASN:OD1	3:Dm:119:LYS:HD2	2.03	0.56
2:CE:63:THR:HG22	3:DF:188:LEU:HD21	1.87	0.56
2:CF:63:THR:HG22	3:D6:188:LEU:HD21	1.88	0.56
2:CF:153:GLN:NE2	3:DF:55:SER:HB2	2.19	0.56
2:CM:63:THR:N	3:Di:139:MET:HG3	2.19	0.56
2:CM:115:ASN:OD1	3:Di:119:LYS:HD2	2.04	0.56
2:CP:153:GLN:NE2	3:DP:55:SER:HB2	2.19	0.56
2:CR:63:THR:N	3:EE:139:MET:HG3	2.19	0.56
2:CR:160:HIS:HD1	2:CR:160:HIS:H	1.52	0.56
2:CR:209:VAL:N	2:CR:210:PRO:CD	2.68	0.56
2:CV:153:GLN:NE2	3:DV:55:SER:HB2	2.19	0.56
2:CY:63:THR:HG22	3:DZ:188:LEU:HD21	1.87	0.56
2:CZ:223:ASN:H	2:CZ:223:ASN:ND2	2.01	0.56
2:Cc:63:THR:HG22	3:ED:188:LEU:HD21	1.88	0.56
2:Cc:63:THR:N	3:ED:139:MET:HG3	2.19	0.56
2:Cj:63:THR:N	3:DM:139:MET:HG3	2.19	0.56
2:Cj:98:VAL:HG12	2:Cj:98:VAL:O	2.04	0.56
2:Cl:115:ASN:CA	3:D8:119:LYS:HD2	2.31	0.56
2:Cp:63:THR:HG22	3:D0:188:LEU:HD21	1.87	0.56
2:Cp:223:ASN:H	2:Cp:223:ASN:ND2	2.02	0.56
2:Cx:153:GLN:NE2	3:EE:55:SER:HB2	2.20	0.56
3:D0:99:GLN:HB2	3:D0:217:ARG:HG3	1.87	0.56
3:D2:99:GLN:HB2	3:D2:217:ARG:HG3	1.87	0.56
3:D2:122:VAL:O	3:D2:143:HIS:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:61:TYR:HB3	3:DB:205:LEU:HD23	1.87	0.56
3:DC:99:GLN:HB2	3:DC:217:ARG:HG3	1.87	0.56
3:DE:122:VAL:O	3:DE:143:HIS:HB2	2.05	0.56
3:DN:122:VAL:O	3:DN:143:HIS:HB2	2.05	0.56
3:DW:99:GLN:HB2	3:DW:217:ARG:HG3	1.87	0.56
3:Db:61:TYR:HB3	3:Db:205:LEU:HD23	1.87	0.56
3:Dc:99:GLN:HB2	3:Dc:217:ARG:HG3	1.87	0.56
3:EA:122:VAL:O	3:EA:143:HIS:HB2	2.05	0.56
3:ED:99:GLN:HB2	3:ED:217:ARG:HG3	1.87	0.56
3:ED:122:VAL:O	3:ED:143:HIS:HB2	2.05	0.56
1:A0:208:TYR:CE2	1:AZ:103:TRP:HZ2	2.23	0.56
1:A1:88:PHE:HE1	1:A1:205:GLY:C	2.14	0.56
1:A2:88:PHE:HE1	1:A2:205:GLY:C	2.14	0.56
1:A7:165:ARG:O	3:D8:34:ARG:HG2	2.05	0.56
1:A8:103:TRP:HZ2	1:A9:208:TYR:CE2	2.23	0.56
1:A8:208:TYR:CE2	1:Ab:103:TRP:HZ2	2.23	0.56
1:AA:88:PHE:HE1	1:AA:205:GLY:C	2.14	0.56
1:AB:206:GLY:O	1:AB:207:CYS:SG	2.63	0.56
1:AD:103:TRP:HZ2	1:AE:208:TYR:CE2	2.23	0.56
1:AF:88:PHE:HE1	1:AF:205:GLY:C	2.13	0.56
1:AF:103:TRP:HZ2	1:AG:208:TYR:CE2	2.23	0.56
1:AG:88:PHE:HE1	1:AG:205:GLY:C	2.14	0.56
1:AG:103:TRP:HZ2	1:AH:208:TYR:CE2	2.23	0.56
1:AH:84:LEU:O	1:AH:155:GLY:HA2	2.04	0.56
1:AI:103:TRP:HZ2	1:AJ:208:TYR:CE2	2.23	0.56
1:AI:206:GLY:O	1:AI:207:CYS:SG	2.62	0.56
1:AL:121:LEU:CD2	1:AM:207:CYS:H	2.12	0.56
1:AN:84:LEU:O	1:AN:155:GLY:HA2	2.04	0.56
1:AN:165:ARG:O	3:DN:34:ARG:HG2	2.05	0.56
1:AQ:165:ARG:O	3:DQ:34:ARG:HG2	2.05	0.56
1:AS:88:PHE:HE1	1:AS:205:GLY:C	2.13	0.56
1:AV:218:MET:HB3	3:DW:40:PHE:CE1	2.39	0.56
1:AW:88:PHE:HE1	1:AW:205:GLY:C	2.14	0.56
1:AW:206:GLY:O	1:AW:207:CYS:SG	2.63	0.56
1:AY:88:PHE:HE1	1:AY:205:GLY:C	2.14	0.56
1:Aa:165:ARG:O	3:Dc:34:ARG:HG2	2.05	0.56
1:Aa:208:TYR:CE2	1:An:103:TRP:HZ2	2.23	0.56
1:Ab:165:ARG:O	3:Dd:34:ARG:HG2	2.05	0.56
1:Ai:165:ARG:O	3:Dk:34:ARG:HG2	2.05	0.56
1:Al:88:PHE:HE1	1:Al:205:GLY:C	2.14	0.56
1:Am:88:PHE:HE1	1:Am:205:GLY:C	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:206:GLY:O	1:BA:207:CYS:SG	2.62	0.56
1:BB:88:PHE:HE1	1:BB:205:GLY:C	2.14	0.56
1:BB:103:TRP:HZ2	1:BC:208:TYR:CE2	2.23	0.56
1:BF:103:TRP:HZ2	1:BG:208:TYR:CE2	2.23	0.56
1:BH:103:TRP:HZ2	1:BI:208:TYR:CE2	2.23	0.56
2:C1:63:THR:N	3:DO:139:MET:HG3	2.19	0.56
2:C2:209:VAL:N	2:C2:210:PRO:CD	2.68	0.56
2:C3:153:GLN:NE2	3:D3:55:SER:HB2	2.19	0.56
2:C6:223:ASN:H	2:C6:223:ASN:ND2	2.01	0.56
2:C7:36:TYR:HE2	2:C7:130:PRO:HG3	1.71	0.56
2:C7:63:THR:N	3:Dm:139:MET:HG3	2.19	0.56
2:C7:153:GLN:NE2	3:D7:55:SER:HB2	2.20	0.56
2:CA:35:CYS:O	2:CA:36:TYR:HB2	2.03	0.56
2:CA:84:PRO:HD3	2:CA:108:TRP:HZ2	1.71	0.56
2:CB:63:THR:HG22	3:Df:188:LEU:HD21	1.88	0.56
2:CE:119:ALA:O	2:CE:205:PRO:HD3	2.06	0.56
2:CH:63:THR:N	3:Ds:139:MET:HG3	2.19	0.56
2:CH:84:PRO:HD3	2:CH:108:TRP:HZ2	1.71	0.56
2:CJ:36:TYR:HE2	2:CJ:130:PRO:HG3	1.71	0.56
2:CL:36:TYR:HE2	2:CL:130:PRO:HG3	1.71	0.56
2:CL:63:THR:N	3:Dk:139:MET:HG3	2.19	0.56
2:CN:119:ALA:O	2:CN:205:PRO:HD3	2.06	0.56
2:CS:223:ASN:H	2:CS:223:ASN:ND2	2.02	0.56
2:CT:36:TYR:HE2	2:CT:130:PRO:HG3	1.71	0.56
2:CU:153:GLN:NE2	3:DU:55:SER:HB2	2.19	0.56
2:CW:36:TYR:HE2	2:CW:130:PRO:HG3	1.71	0.56
2:CY:84:PRO:HD3	2:CY:108:TRP:HZ2	1.71	0.56
2:CY:160:HIS:HD1	2:CY:160:HIS:H	1.52	0.56
2:Cd:98:VAL:O	2:Cd:98:VAL:HG12	2.04	0.56
2:Cf:98:VAL:O	2:Cf:98:VAL:HG12	2.04	0.56
2:Ci:63:THR:N	3:Dj:139:MET:HG3	2.19	0.56
2:Ci:98:VAL:O	2:Ci:98:VAL:HG12	2.04	0.56
2:Ci:153:GLN:NE2	3:Di:55:SER:HB2	2.19	0.56
2:Ci:209:VAL:N	2:Ci:210:PRO:CD	2.68	0.56
2:Cj:119:ALA:O	2:Cj:205:PRO:HD3	2.06	0.56
2:Cj:223:ASN:H	2:Cj:223:ASN:ND2	2.01	0.56
2:Ck:84:PRO:HD3	2:Ck:108:TRP:HZ2	1.70	0.56
2:Cn:84:PRO:HD3	2:Cn:108:TRP:HZ2	1.71	0.56
3:D2:61:TYR:HB3	3:D2:205:LEU:HD23	1.87	0.56
3:D4:99:GLN:HB2	3:D4:217:ARG:HG3	1.87	0.56
3:D5:122:VAL:O	3:D5:143:HIS:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D6:86:HIS:ND1	3:D6:87:GLY:N	2.54	0.56
3:D6:99:GLN:HB2	3:D6:217:ARG:HG3	1.87	0.56
3:D9:86:HIS:ND1	3:D9:87:GLY:N	2.54	0.56
3:DB:122:VAL:O	3:DB:143:HIS:HB2	2.05	0.56
3:DC:17:SER:O	3:DC:19:PRO:HD3	2.03	0.56
3:DE:99:GLN:HB2	3:DE:217:ARG:HG3	1.87	0.56
3:DF:42:ASN:HD22	3:DF:44:ILE:HG22	1.65	0.56
3:DF:86:HIS:ND1	3:DF:87:GLY:N	2.54	0.56
3:DG:61:TYR:HB3	3:DG:205:LEU:HD23	1.87	0.56
3:DI:122:VAL:O	3:DI:143:HIS:HB2	2.05	0.56
3:DJ:53:PHE:CE2	3:DJ:205:LEU:HD13	2.41	0.56
3:DJ:61:TYR:HB3	3:DJ:205:LEU:HD23	1.87	0.56
3:DJ:122:VAL:O	3:DJ:143:HIS:HB2	2.05	0.56
3:DK:122:VAL:O	3:DK:143:HIS:HB2	2.05	0.56
3:DP:122:VAL:O	3:DP:143:HIS:HB2	2.05	0.56
3:DS:122:VAL:O	3:DS:143:HIS:HB2	2.05	0.56
3:DU:86:HIS:ND1	3:DU:87:GLY:N	2.54	0.56
3:DV:86:HIS:ND1	3:DV:87:GLY:N	2.54	0.56
3:DX:99:GLN:HB2	3:DX:217:ARG:HG3	1.87	0.56
3:DY:53:PHE:CE2	3:DY:205:LEU:HD13	2.41	0.56
3:DY:86:HIS:ND1	3:DY:87:GLY:N	2.54	0.56
3:DZ:122:VAL:O	3:DZ:143:HIS:HB2	2.05	0.56
3:Db:109:ILE:HB	3:Db:205:LEU:HB2	1.88	0.56
3:Db:179:VAL:HG12	3:Db:181:GLY:H	1.71	0.56
3:Dd:99:GLN:HB2	3:Dd:217:ARG:HG3	1.87	0.56
3:De:179:VAL:HG12	3:De:181:GLY:H	1.71	0.56
3:Df:42:ASN:HD22	3:Df:44:ILE:HG22	1.66	0.56
3:Df:99:GLN:HB2	3:Df:217:ARG:HG3	1.87	0.56
3:Dh:61:TYR:HB3	3:Dh:205:LEU:HD23	1.87	0.56
3:Di:99:GLN:HB2	3:Di:217:ARG:HG3	1.87	0.56
3:Dk:99:GLN:HB2	3:Dk:217:ARG:HG3	1.87	0.56
3:Dm:122:VAL:O	3:Dm:143:HIS:HB2	2.06	0.56
3:Do:86:HIS:ND1	3:Do:87:GLY:N	2.54	0.56
3:Dq:61:TYR:HB3	3:Dq:205:LEU:HD23	1.87	0.56
3:Dq:109:ILE:HB	3:Dq:205:LEU:HB2	1.88	0.56
3:EE:122:VAL:O	3:EE:143:HIS:HB2	2.06	0.56
1:A3:165:ARG:O	3:D4:34:ARG:HG2	2.05	0.56
1:A5:103:TRP:HZ2	1:A6:208:TYR:CE2	2.23	0.56
1:A6:88:PHE:HE1	1:A6:205:GLY:C	2.14	0.56
1:AA:165:ARG:O	3:DA:34:ARG:HG2	2.05	0.56
1:AJ:165:ARG:O	3:DJ:34:ARG:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:88:PHE:HE1	1:AK:205:GLY:C	2.14	0.56
1:AN:49:THR:HG22	1:AN:50:GLY:N	2.21	0.56
1:AR:165:ARG:O	3:DR:34:ARG:HG2	2.05	0.56
1:AS:86:ILE:N	1:AS:86:ILE:CD1	2.65	0.56
1:AS:208:TYR:CE2	1:Ao:103:TRP:HZ2	2.23	0.56
1:AU:206:GLY:O	1:AU:207:CYS:SG	2.63	0.56
1:AV:49:THR:HG22	1:AV:50:GLY:N	2.21	0.56
1:Ac:103:TRP:HZ2	1:Ad:208:TYR:CE2	2.23	0.56
1:Ai:206:GLY:O	1:Ai:207:CYS:SG	2.63	0.56
1:Aj:165:ARG:O	3:Dl:34:ARG:HG2	2.05	0.56
1:BA:86:ILE:N	1:BA:86:ILE:CD1	2.65	0.56
1:BA:103:TRP:HZ2	1:BB:208:TYR:CE2	2.23	0.56
1:BG:88:PHE:HE1	1:BG:205:GLY:C	2.13	0.56
1:BH:88:PHE:HE1	1:BH:205:GLY:C	2.14	0.56
2:C2:36:TYR:HE2	2:C2:130:PRO:HG3	1.71	0.56
2:C3:36:TYR:HE2	2:C3:130:PRO:HG3	1.71	0.56
2:C4:63:THR:HG22	3:EC:188:LEU:HD21	1.87	0.56
2:C4:153:GLN:NE2	3:D4:55:SER:HB2	2.19	0.56
2:C8:36:TYR:HE2	2:C8:130:PRO:HG3	1.71	0.56
2:CD:84:PRO:HD3	2:CD:108:TRP:HZ2	1.71	0.56
2:CD:98:VAL:O	2:CD:98:VAL:HG12	2.04	0.56
2:CH:98:VAL:O	2:CH:98:VAL:HG12	2.04	0.56
2:CK:84:PRO:HD3	2:CK:108:TRP:HZ2	1.71	0.56
2:CQ:223:ASN:H	2:CQ:223:ASN:ND2	2.01	0.56
2:CT:160:HIS:HD1	2:CT:160:HIS:H	1.52	0.56
2:CZ:84:PRO:HD3	2:CZ:108:TRP:HZ2	1.71	0.56
2:Ca:84:PRO:HD3	2:Ca:108:TRP:HZ2	1.71	0.56
2:Ca:223:ASN:H	2:Ca:223:ASN:ND2	2.01	0.56
2:Cb:35:CYS:O	2:Cb:36:TYR:HB2	2.03	0.56
2:Cc:84:PRO:HD3	2:Cc:108:TRP:HZ2	1.71	0.56
2:Cd:73:GLN:HA	2:Cd:73:GLN:NE2	2.17	0.56
2:Ce:36:TYR:HE2	2:Ce:130:PRO:HG3	1.71	0.56
2:Cg:218:ILE:O	2:Cg:219:ASP:HB2	2.06	0.56
2:Ch:218:ILE:O	2:Ch:219:ASP:HB2	2.06	0.56
2:Cj:36:TYR:HE2	2:Cj:130:PRO:HG3	1.71	0.56
2:Ck:218:ILE:O	2:Ck:219:ASP:HB2	2.06	0.56
2:Cm:98:VAL:O	2:Cm:98:VAL:HG12	2.04	0.56
2:Cn:218:ILE:O	2:Cn:219:ASP:HB2	2.06	0.56
2:Co:84:PRO:HD3	2:Co:108:TRP:HZ2	1.71	0.56
2:Cp:75:HIS:HE2	3:Dp:59:LYS:HB3	1.71	0.56
2:Cq:63:THR:HG22	3:DY:188:LEU:HD21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cq:119:ALA:O	2:Cq:205:PRO:HD3	2.06	0.56
2:Cu:63:THR:HG22	3:D5:188:LEU:HD21	1.88	0.56
2:Cx:84:PRO:HD3	2:Cx:108:TRP:HZ2	1.71	0.56
3:D1:53:PHE:CE2	3:D1:205:LEU:HD13	2.41	0.56
3:D6:61:TYR:HB3	3:D6:205:LEU:HD23	1.87	0.56
3:D6:179:VAL:HG12	3:D6:181:GLY:H	1.71	0.56
3:D7:86:HIS:ND1	3:D7:87:GLY:N	2.54	0.56
3:D9:61:TYR:HB3	3:D9:205:LEU:HD23	1.87	0.56
3:DF:179:VAL:HG12	3:DF:181:GLY:H	1.71	0.56
3:DI:53:PHE:CE2	3:DI:205:LEU:HD13	2.41	0.56
3:DK:179:VAL:HG12	3:DK:181:GLY:H	1.71	0.56
3:DM:179:VAL:HG12	3:DM:181:GLY:H	1.71	0.56
3:DN:99:GLN:HB2	3:DN:217:ARG:HG3	1.87	0.56
3:DO:179:VAL:HG12	3:DO:181:GLY:H	1.71	0.56
3:DP:42:ASN:HD22	3:DP:44:ILE:HG22	1.65	0.56
3:DQ:53:PHE:CE2	3:DQ:205:LEU:HD13	2.41	0.56
3:DS:179:VAL:HG12	3:DS:181:GLY:H	1.71	0.56
3:DU:53:PHE:CE2	3:DU:205:LEU:HD13	2.41	0.56
3:DV:61:TYR:HB3	3:DV:205:LEU:HD23	1.87	0.56
3:DW:53:PHE:CE2	3:DW:205:LEU:HD13	2.41	0.56
3:DW:109:ILE:HB	3:DW:205:LEU:HB2	1.88	0.56
3:DY:179:VAL:HG12	3:DY:181:GLY:H	1.71	0.56
3:DZ:179:VAL:HG12	3:DZ:181:GLY:H	1.71	0.56
3:Da:122:VAL:O	3:Da:143:HIS:HB2	2.05	0.56
3:De:86:HIS:ND1	3:De:87:GLY:N	2.54	0.56
3:De:99:GLN:HB2	3:De:217:ARG:HG3	1.87	0.56
3:Dg:86:HIS:ND1	3:Dg:87:GLY:N	2.54	0.56
3:Dh:86:HIS:ND1	3:Dh:87:GLY:N	2.54	0.56
3:Dk:86:HIS:ND1	3:Dk:87:GLY:N	2.54	0.56
3:EC:53:PHE:CE2	3:EC:205:LEU:HD13	2.41	0.56
3:EC:86:HIS:ND1	3:EC:87:GLY:N	2.54	0.56
1:A0:49:THR:HG22	1:A0:50:GLY:N	2.21	0.56
1:A0:88:PHE:HE1	1:A0:205:GLY:C	2.13	0.56
1:A0:165:ARG:O	3:D1:34:ARG:HG2	2.05	0.56
1:A1:165:ARG:O	3:D2:34:ARG:HG2	2.05	0.56
1:A7:88:PHE:HE1	1:A7:205:GLY:C	2.14	0.56
1:A8:49:THR:HG22	1:A8:50:GLY:N	2.21	0.56
1:A9:49:THR:HG22	1:A9:50:GLY:N	2.21	0.56
1:AK:49:THR:HG22	1:AK:50:GLY:N	2.21	0.56
1:AK:103:TRP:HZ2	1:AL:208:TYR:CE2	2.23	0.56
1:AL:165:ARG:O	3:DL:34:ARG:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:165:ARG:O	3:DP:34:ARG:HG2	2.05	0.56
1:AR:49:THR:HG22	1:AR:50:GLY:N	2.21	0.56
1:AR:88:PHE:HE1	1:AR:205:GLY:C	2.14	0.56
1:AR:103:TRP:HZ2	1:Ao:208:TYR:CE2	2.23	0.56
1:AT:49:THR:HG22	1:AT:50:GLY:N	2.21	0.56
1:AV:88:PHE:HE1	1:AV:205:GLY:C	2.14	0.56
1:AX:165:ARG:O	3:DY:34:ARG:HG2	2.05	0.56
1:Aa:88:PHE:HE1	1:Aa:205:GLY:C	2.14	0.56
1:Ac:165:ARG:O	3:De:34:ARG:HG2	2.05	0.56
1:Ac:206:GLY:O	1:Ac:207:CYS:SG	2.62	0.56
1:Ad:49:THR:HG22	1:Ad:50:GLY:N	2.21	0.56
1:Ae:165:ARG:O	3:Dg:34:ARG:HG2	2.05	0.56
1:Af:49:THR:HG22	1:Af:50:GLY:N	2.21	0.56
1:Ai:88:PHE:HE1	1:Ai:205:GLY:C	2.14	0.56
1:Al:165:ARG:O	3:Dn:34:ARG:HG2	2.05	0.56
1:BE:88:PHE:HE1	1:BE:205:GLY:C	2.14	0.56
1:BI:49:THR:HG22	1:BI:50:GLY:N	2.21	0.56
2:C1:98:VAL:O	2:C1:98:VAL:HG12	2.04	0.56
2:C3:63:THR:HG22	3:DU:188:LEU:HD21	1.87	0.56
2:C3:119:ALA:O	2:C3:205:PRO:HD3	2.06	0.56
2:C4:84:PRO:HD3	2:C4:108:TRP:HZ2	1.70	0.56
2:C6:75:HIS:HE2	3:D6:59:LYS:HB3	1.71	0.56
2:CA:98:VAL:O	2:CA:98:VAL:HG12	2.04	0.56
2:CC:119:ALA:O	2:CC:205:PRO:HD3	2.06	0.56
2:CD:153:GLN:NE2	3:DD:55:SER:HB2	2.19	0.56
2:CF:75:HIS:HE2	3:DF:59:LYS:HB3	1.71	0.56
2:CG:63:THR:N	3:EB:139:MET:HG3	2.19	0.56
2:CH:119:ALA:O	2:CH:205:PRO:HD3	2.06	0.56
2:CL:75:HIS:HE2	3:DL:59:LYS:HB3	1.71	0.56
2:CN:75:HIS:HE2	3:DN:59:LYS:HB3	1.71	0.56
2:CS:36:TYR:HE2	2:CS:130:PRO:HG3	1.71	0.56
2:CS:75:HIS:HE2	3:DS:59:LYS:HB3	1.71	0.56
2:CY:119:ALA:O	2:CY:205:PRO:HD3	2.06	0.56
2:Cg:209:VAL:N	2:Cg:210:PRO:CD	2.68	0.56
2:Cs:153:GLN:NE2	3:Ds:55:SER:HB2	2.20	0.56
2:Ct:75:HIS:HE2	3:EA:59:LYS:HB3	1.71	0.56
2:Cw:160:HIS:HD1	2:Cw:160:HIS:H	1.52	0.56
2:Cx:218:ILE:O	2:Cx:219:ASP:HB2	2.06	0.56
3:D0:109:ILE:HB	3:D0:205:LEU:HB2	1.88	0.56
3:D2:179:VAL:HG12	3:D2:181:GLY:H	1.71	0.56
3:D7:53:PHE:CE2	3:D7:205:LEU:HD13	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:122:VAL:O	3:D8:143:HIS:HB2	2.05	0.56
3:DA:61:TYR:HB3	3:DA:205:LEU:HD23	1.87	0.56
3:DE:109:ILE:HB	3:DE:205:LEU:HB2	1.88	0.56
3:DG:109:ILE:HB	3:DG:205:LEU:HB2	1.88	0.56
3:DI:99:GLN:HB2	3:DI:217:ARG:HG3	1.87	0.56
3:DK:53:PHE:CE2	3:DK:205:LEU:HD13	2.41	0.56
3:DM:42:ASN:HD22	3:DM:44:ILE:HG22	1.65	0.56
3:DN:179:VAL:HG12	3:DN:181:GLY:H	1.71	0.56
3:DO:53:PHE:CE2	3:DO:205:LEU:HD13	2.41	0.56
3:DQ:109:ILE:HB	3:DQ:205:LEU:HB2	1.88	0.56
3:DT:86:HIS:ND1	3:DT:87:GLY:N	2.54	0.56
3:DT:179:VAL:HG12	3:DT:181:GLY:H	1.71	0.56
3:DU:179:VAL:HG12	3:DU:181:GLY:H	1.71	0.56
3:DV:179:VAL:HG12	3:DV:181:GLY:H	1.71	0.56
3:DX:53:PHE:CE2	3:DX:205:LEU:HD13	2.41	0.56
3:DX:109:ILE:HB	3:DX:205:LEU:HB2	1.88	0.56
3:DY:122:VAL:O	3:DY:143:HIS:HB2	2.05	0.56
3:DZ:99:GLN:HB2	3:DZ:217:ARG:HG3	1.87	0.56
3:Da:109:ILE:HB	3:Da:205:LEU:HB2	1.88	0.56
3:Dd:86:HIS:ND1	3:Dd:87:GLY:N	2.54	0.56
3:De:109:ILE:HB	3:De:205:LEU:HB2	1.88	0.56
3:Dg:99:GLN:HB2	3:Dg:217:ARG:HG3	1.87	0.56
3:Dh:179:VAL:HG12	3:Dh:181:GLY:H	1.71	0.56
3:Di:122:VAL:O	3:Di:143:HIS:HB2	2.05	0.56
3:Dl:86:HIS:ND1	3:Dl:87:GLY:N	2.54	0.56
3:Dn:179:VAL:HG12	3:Dn:181:GLY:H	1.71	0.56
3:Do:179:VAL:HG12	3:Do:181:GLY:H	1.71	0.56
3:Dr:86:HIS:ND1	3:Dr:87:GLY:N	2.54	0.56
3:EA:99:GLN:HB2	3:EA:217:ARG:HG3	1.87	0.56
3:EA:109:ILE:HB	3:EA:205:LEU:HB2	1.88	0.56
3:EB:53:PHE:CE2	3:EB:205:LEU:HD13	2.41	0.56
3:EB:86:HIS:ND1	3:EB:87:GLY:N	2.54	0.56
3:EB:109:ILE:HB	3:EB:205:LEU:HB2	1.88	0.56
3:ED:179:VAL:HG12	3:ED:181:GLY:H	1.71	0.56
3:EE:99:GLN:HB2	3:EE:217:ARG:HG3	1.87	0.56
1:A4:49:THR:HG22	1:A4:50:GLY:N	2.21	0.56
1:A5:49:THR:HG22	1:A5:50:GLY:N	2.21	0.56
1:A5:86:ILE:N	1:A5:86:ILE:CD1	2.65	0.56
1:A5:88:PHE:HE1	1:A5:205:GLY:C	2.14	0.56
1:A6:103:TRP:HZ2	1:A7:208:TYR:CE2	2.23	0.56
1:AB:165:ARG:O	3:DB:34:ARG:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:88:PHE:HE1	1:AE:205:GLY:C	2.13	0.56
1:AE:165:ARG:O	3:DE:34:ARG:HG2	2.05	0.56
1:AI:49:THR:HG22	1:AI:50:GLY:N	2.21	0.56
1:AJ:244:ASN:OD1	3:DJ:172:ALA:HB1	2.06	0.56
1:AM:49:THR:HG22	1:AM:50:GLY:N	2.21	0.56
1:AO:49:THR:HG22	1:AO:50:GLY:N	2.21	0.56
1:AS:49:THR:HG22	1:AS:50:GLY:N	2.21	0.56
1:AX:88:PHE:HE1	1:AX:205:GLY:C	2.14	0.56
1:Ad:88:PHE:HE1	1:Ad:205:GLY:C	2.14	0.56
1:Af:244:ASN:OD1	3:Dh:172:ALA:HB1	2.06	0.56
1:Ag:206:GLY:O	1:Ag:207:CYS:SG	2.63	0.56
1:Ah:49:THR:HG22	1:Ah:50:GLY:N	2.21	0.56
1:Am:49:THR:HG22	1:Am:50:GLY:N	2.21	0.56
1:BA:88:PHE:HE1	1:BA:205:GLY:C	2.14	0.56
1:BC:49:THR:HG22	1:BC:50:GLY:N	2.21	0.56
1:BF:165:ARG:O	3:EB:34:ARG:HG2	2.05	0.56
1:BG:49:THR:HG22	1:BG:50:GLY:N	2.21	0.56
1:BI:88:PHE:HE1	1:BI:205:GLY:C	2.14	0.56
2:C1:36:TYR:HE2	2:C1:130:PRO:HG3	1.70	0.56
2:C3:75:HIS:HE2	3:D3:59:LYS:HB3	1.71	0.56
2:C3:115:ASN:CA	3:DU:119:LYS:HD2	2.31	0.56
2:C3:218:ILE:O	2:C3:219:ASP:HB2	2.06	0.56
2:C4:98:VAL:HG12	2:C4:98:VAL:O	2.04	0.56
2:C4:119:ALA:O	2:C4:205:PRO:HD3	2.06	0.56
2:C6:36:TYR:HE2	2:C6:130:PRO:HG3	1.71	0.56
2:CF:209:VAL:N	2:CF:210:PRO:CD	2.68	0.56
2:CG:218:ILE:O	2:CG:219:ASP:HB2	2.06	0.56
2:CM:36:TYR:HE2	2:CM:130:PRO:HG3	1.71	0.56
2:CP:75:HIS:HE2	3:DP:59:LYS:HB3	1.71	0.56
2:CQ:119:ALA:O	2:CQ:205:PRO:HD3	2.06	0.56
2:CT:218:ILE:O	2:CT:219:ASP:HB2	2.06	0.56
2:CU:218:ILE:O	2:CU:219:ASP:HB2	2.06	0.56
2:CV:63:THR:HG22	3:DB:188:LEU:HD21	1.88	0.56
2:CV:75:HIS:HE2	3:DV:59:LYS:HB3	1.71	0.56
2:CW:75:HIS:HE2	3:DW:59:LYS:HB3	1.71	0.56
2:CW:119:ALA:O	2:CW:205:PRO:HD3	2.06	0.56
2:CZ:119:ALA:O	2:CZ:205:PRO:HD3	2.06	0.56
2:Cc:209:VAL:N	2:Cc:210:PRO:CD	2.68	0.56
2:Cg:119:ALA:O	2:Cg:205:PRO:HD3	2.06	0.56
2:Ci:84:PRO:HD3	2:Ci:108:TRP:HZ2	1.71	0.56
2:Cl:63:THR:HG22	3:D8:188:LEU:HD21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Co:119:ALA:O	2:Co:205:PRO:HD3	2.06	0.56
2:Cp:119:ALA:O	2:Cp:205:PRO:HD3	2.06	0.56
2:Cp:153:GLN:NE2	3:Dp:55:SER:HB2	2.19	0.56
2:Cr:63:THR:HG22	3:DI:188:LEU:HD21	1.87	0.56
2:Cs:36:TYR:HE2	2:Cs:130:PRO:HG3	1.71	0.56
2:Ct:119:ALA:O	2:Ct:205:PRO:HD3	2.06	0.56
2:Cu:84:PRO:HD3	2:Cu:108:TRP:HZ2	1.71	0.56
2:Cu:218:ILE:O	2:Cu:219:ASP:HB2	2.06	0.56
2:Cw:75:HIS:HE2	3:ED:59:LYS:HB3	1.71	0.56
3:D1:61:TYR:HB3	3:D1:205:LEU:HD23	1.87	0.56
3:D5:42:ASN:HD22	3:D5:44:ILE:HG22	1.65	0.56
3:D7:109:ILE:HB	3:D7:205:LEU:HB2	1.88	0.56
3:D9:53:PHE:CE2	3:D9:205:LEU:HD13	2.41	0.56
3:D9:179:VAL:HG12	3:D9:181:GLY:H	1.71	0.56
3:DA:53:PHE:CE2	3:DA:205:LEU:HD13	2.41	0.56
3:DD:122:VAL:O	3:DD:143:HIS:HB2	2.05	0.56
3:DG:86:HIS:ND1	3:DG:87:GLY:N	2.54	0.56
3:DH:53:PHE:CE2	3:DH:205:LEU:HD13	2.41	0.56
3:DH:99:GLN:HB2	3:DH:217:ARG:HG3	1.87	0.56
3:DH:122:VAL:O	3:DH:143:HIS:HB2	2.05	0.56
3:DI:109:ILE:HB	3:DI:205:LEU:HB2	1.88	0.56
3:DJ:86:HIS:ND1	3:DJ:87:GLY:N	2.54	0.56
3:DL:109:ILE:HB	3:DL:205:LEU:HB2	1.88	0.56
3:DN:86:HIS:ND1	3:DN:87:GLY:N	2.54	0.56
3:DO:122:VAL:O	3:DO:143:HIS:HB2	2.05	0.56
3:DP:53:PHE:CE2	3:DP:205:LEU:HD13	2.41	0.56
3:DP:179:VAL:HG12	3:DP:181:GLY:H	1.71	0.56
3:DQ:99:GLN:HB2	3:DQ:217:ARG:HG3	1.87	0.56
3:DR:122:VAL:O	3:DR:143:HIS:HB2	2.05	0.56
3:DW:61:TYR:HB3	3:DW:205:LEU:HD23	1.87	0.56
3:Dc:61:TYR:HB3	3:Dc:205:LEU:HD23	1.87	0.56
3:Di:86:HIS:ND1	3:Di:87:GLY:N	2.54	0.56
3:Dm:53:PHE:CE2	3:Dm:205:LEU:HD13	2.41	0.56
3:Dm:109:ILE:HB	3:Dm:205:LEU:HB2	1.88	0.56
3:Dn:86:HIS:ND1	3:Dn:87:GLY:N	2.54	0.56
3:Dp:42:ASN:HD22	3:Dp:44:ILE:HG22	1.66	0.56
3:Dp:86:HIS:ND1	3:Dp:87:GLY:N	2.54	0.56
3:Dp:179:VAL:HG12	3:Dp:181:GLY:H	1.71	0.56
3:Dq:122:VAL:O	3:Dq:143:HIS:HB2	2.05	0.56
3:Dr:53:PHE:CE2	3:Dr:205:LEU:HD13	2.41	0.56
3:Ds:53:PHE:CE2	3:Ds:205:LEU:HD13	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:99:GLN:HB2	3:EB:217:ARG:HG3	1.87	0.56
3:EE:53:PHE:CE2	3:EE:205:LEU:HD13	2.41	0.56
3:EE:109:ILE:HB	3:EE:205:LEU:HB2	1.88	0.56
1:A1:244:ASN:OD1	3:D2:172:ALA:HB1	2.06	0.56
1:AA:103:TRP:HZ2	1:AB:208:TYR:CE2	2.23	0.56
1:AD:88:PHE:HE1	1:AD:205:GLY:C	2.14	0.56
1:AI:80:SER:HB3	1:AI:216:ALA:HA	1.88	0.56
1:AL:103:TRP:HZ2	1:AM:208:TYR:CE2	2.23	0.56
1:AN:206:GLY:O	1:AN:207:CYS:SG	2.63	0.56
1:AO:244:ASN:OD1	3:DO:172:ALA:HB1	2.06	0.56
1:AP:208:TYR:CE2	1:AS:103:TRP:HZ2	2.23	0.56
1:AT:88:PHE:HE1	1:AT:205:GLY:C	2.14	0.56
1:AT:121:LEU:CD2	1:AU:207:CYS:H	2.12	0.56
1:AY:103:TRP:HZ2	1:AZ:208:TYR:CE2	2.23	0.56
1:Af:103:TRP:HZ2	1:Ag:208:TYR:CE2	2.23	0.56
1:BB:165:ARG:O	3:Dq:34:ARG:HG2	2.05	0.56
1:BG:103:TRP:HZ2	1:BH:208:TYR:CE2	2.23	0.56
1:BG:165:ARG:O	3:EC:34:ARG:HG2	2.05	0.56
2:C1:119:ALA:O	2:C1:205:PRO:HD3	2.06	0.56
2:C1:223:ASN:H	2:C1:223:ASN:ND2	2.01	0.56
2:C2:63:THR:HG22	3:Dh:188:LEU:HD21	1.87	0.56
2:CB:36:TYR:HE2	2:CB:130:PRO:HG3	1.71	0.56
2:CE:209:VAL:N	2:CE:210:PRO:CD	2.68	0.56
2:CJ:153:GLN:NE2	3:DJ:55:SER:HB2	2.20	0.56
2:CJ:218:ILE:O	2:CJ:219:ASP:HB2	2.06	0.56
2:CN:63:THR:HG22	3:D2:188:LEU:HD21	1.87	0.56
2:CQ:63:THR:HG22	3:Dp:188:LEU:HD21	1.87	0.56
2:CS:63:THR:HG22	3:Dc:188:LEU:HD21	1.87	0.56
2:CU:36:TYR:HE2	2:CU:130:PRO:HG3	1.71	0.56
2:CU:119:ALA:O	2:CU:205:PRO:HD3	2.06	0.56
2:CZ:36:TYR:HE2	2:CZ:130:PRO:HG3	1.71	0.56
2:CZ:73:GLN:HA	2:CZ:73:GLN:NE2	2.17	0.56
2:Ce:84:PRO:HD3	2:Ce:108:TRP:HZ2	1.71	0.56
2:Cf:63:THR:HG22	3:DV:188:LEU:HD21	1.87	0.56
2:Cf:218:ILE:O	2:Cf:219:ASP:HB2	2.06	0.56
2:Ci:119:ALA:O	2:Ci:205:PRO:HD3	2.06	0.56
2:Ck:63:THR:HG22	3:Da:188:LEU:HD21	1.87	0.56
2:Cl:160:HIS:HD1	2:Cl:160:HIS:H	1.52	0.56
2:Cm:84:PRO:HD3	2:Cm:108:TRP:HZ2	1.71	0.56
2:Cu:115:ASN:CA	3:D5:119:LYS:HD2	2.31	0.56
2:Cx:75:HIS:HE2	3:EE:59:LYS:HB3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D1:86:HIS:ND1	3:D1:87:GLY:N	2.54	0.56
3:D4:61:TYR:HB3	3:D4:205:LEU:HD23	1.87	0.56
3:D4:122:VAL:O	3:D4:143:HIS:HB2	2.05	0.56
3:D5:99:GLN:HB2	3:D5:217:ARG:HG3	1.87	0.56
3:DE:53:PHE:CE2	3:DE:205:LEU:HD13	2.41	0.56
3:DG:53:PHE:CE2	3:DG:205:LEU:HD13	2.41	0.56
3:DK:86:HIS:ND1	3:DK:87:GLY:N	2.54	0.56
3:DL:179:VAL:HG12	3:DL:181:GLY:H	1.71	0.56
3:DO:86:HIS:ND1	3:DO:87:GLY:N	2.54	0.56
3:DS:53:PHE:CE2	3:DS:205:LEU:HD13	2.41	0.56
3:DU:61:TYR:HB3	3:DU:205:LEU:HD23	1.87	0.56
3:DW:86:HIS:ND1	3:DW:87:GLY:N	2.54	0.56
3:Da:53:PHE:CE2	3:Da:205:LEU:HD13	2.41	0.56
3:Dg:109:ILE:HB	3:Dg:205:LEU:HB2	1.88	0.56
3:Dh:53:PHE:CE2	3:Dh:205:LEU:HD13	2.41	0.56
3:Di:109:ILE:HB	3:Di:205:LEU:HB2	1.88	0.56
3:Dj:122:VAL:O	3:Dj:143:HIS:HB2	2.06	0.56
3:Dl:53:PHE:CE2	3:Dl:205:LEU:HD13	2.41	0.56
3:Dl:99:GLN:HB2	3:Dl:217:ARG:HG3	1.87	0.56
3:Dl:122:VAL:O	3:Dl:143:HIS:HB2	2.05	0.56
3:Dp:122:VAL:O	3:Dp:143:HIS:HB2	2.06	0.56
3:Dq:99:GLN:HB2	3:Dq:217:ARG:HG3	1.87	0.56
3:Dr:99:GLN:HB2	3:Dr:217:ARG:HG3	1.87	0.56
3:ED:53:PHE:CE2	3:ED:205:LEU:HD13	2.41	0.56
3:EE:179:VAL:HG12	3:EE:181:GLY:H	1.71	0.56
1:A1:49:THR:HG22	1:A1:50:GLY:N	2.21	0.56
1:A2:244:ASN:OD1	3:D3:172:ALA:HB1	2.06	0.56
1:AD:49:THR:HG22	1:AD:50:GLY:N	2.21	0.56
1:AD:244:ASN:OD1	3:DD:172:ALA:HB1	2.06	0.56
1:AE:49:THR:HG22	1:AE:50:GLY:N	2.21	0.56
1:AH:88:PHE:HE1	1:AH:205:GLY:C	2.14	0.56
1:AK:244:ASN:OD1	3:DK:172:ALA:HB1	2.06	0.56
1:AL:244:ASN:OD1	3:DL:172:ALA:HB1	2.06	0.56
1:AM:103:TRP:HZ2	1:AN:208:TYR:CE2	2.23	0.56
1:AN:80:SER:HB3	1:AN:216:ALA:HA	1.88	0.56
1:AQ:80:SER:HB3	1:AQ:216:ALA:HA	1.88	0.56
1:AR:80:SER:HB3	1:AR:216:ALA:HA	1.88	0.56
1:AT:244:ASN:OD1	3:DU:172:ALA:HB1	2.06	0.56
1:AU:49:THR:HG22	1:AU:50:GLY:N	2.21	0.56
1:AV:165:ARG:O	3:DW:34:ARG:HG2	2.05	0.56
1:AW:244:ASN:OD1	3:DX:172:ALA:HB1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:49:THR:HG22	1:AY:50:GLY:N	2.21	0.56
1:AZ:88:PHE:HE1	1:AZ:205:GLY:C	2.14	0.56
1:Aa:49:THR:HG22	1:Aa:50:GLY:N	2.21	0.56
1:Aj:49:THR:HG22	1:Aj:50:GLY:N	2.21	0.56
1:Ak:244:ASN:OD1	3:Dm:172:ALA:HB1	2.06	0.56
1:BC:244:ASN:OD1	3:Dr:172:ALA:HB1	2.06	0.56
2:C4:36:TYR:HE2	2:C4:130:PRO:HG3	1.71	0.56
2:C5:63:THR:HG22	3:DG:188:LEU:HD21	1.87	0.56
2:C5:75:HIS:HE2	3:D5:59:LYS:HB3	1.71	0.56
2:C5:119:ALA:O	2:C5:205:PRO:HD3	2.06	0.56
2:C7:119:ALA:O	2:C7:205:PRO:HD3	2.06	0.56
2:CA:218:ILE:O	2:CA:219:ASP:HB2	2.06	0.56
2:CB:119:ALA:O	2:CB:205:PRO:HD3	2.06	0.56
2:CC:63:THR:HG22	3:Dn:188:LEU:HD21	1.87	0.56
2:CD:119:ALA:O	2:CD:205:PRO:HD3	2.06	0.56
2:CE:84:PRO:HD3	2:CE:108:TRP:HZ2	1.71	0.56
2:CH:63:THR:HG22	3:Ds:188:LEU:HD21	1.87	0.56
2:CH:75:HIS:HE2	3:DH:59:LYS:HB3	1.71	0.56
2:CI:119:ALA:O	2:CI:205:PRO:HD3	2.06	0.56
2:CI:223:ASN:H	2:CI:223:ASN:ND2	2.02	0.56
2:CK:75:HIS:HE2	3:DK:59:LYS:HB3	1.71	0.56
2:CK:209:VAL:N	2:CK:210:PRO:CD	2.68	0.56
2:CL:218:ILE:O	2:CL:219:ASP:HB2	2.06	0.56
2:CM:84:PRO:HD3	2:CM:108:TRP:HZ2	1.71	0.56
2:CN:36:TYR:HE2	2:CN:130:PRO:HG3	1.71	0.56
2:CN:218:ILE:O	2:CN:219:ASP:HB2	2.06	0.56
2:CQ:209:VAL:N	2:CQ:210:PRO:CD	2.68	0.56
2:CV:84:PRO:HD3	2:CV:108:TRP:HZ2	1.71	0.56
2:CV:119:ALA:O	2:CV:205:PRO:HD3	2.06	0.56
2:CW:218:ILE:O	2:CW:219:ASP:HB2	2.06	0.56
2:CY:115:ASN:CA	3:DZ:119:LYS:HD2	2.31	0.56
2:CZ:35:CYS:O	2:CZ:36:TYR:HB2	2.03	0.56
2:Ca:75:HIS:HE2	3:Da:59:LYS:HB3	1.71	0.56
2:Ce:119:ALA:O	2:Ce:205:PRO:HD3	2.06	0.56
2:Cf:119:ALA:O	2:Cf:205:PRO:HD3	2.06	0.56
2:Cg:63:THR:HG22	3:D3:188:LEU:HD21	1.88	0.56
2:Co:36:TYR:HE2	2:Co:130:PRO:HG3	1.71	0.56
2:Co:202:LEU:HD11	2:Co:209:VAL:HG21	1.88	0.56
2:Cu:98:VAL:HG12	2:Cu:98:VAL:O	2.04	0.56
2:Cv:63:THR:HG22	3:Dd:188:LEU:HD21	1.87	0.56
2:Cv:202:LEU:HD11	2:Cv:209:VAL:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cw:63:THR:HG22	3:DS:188:LEU:HD21	1.87	0.56
2:Cw:84:PRO:HD3	2:Cw:108:TRP:HZ2	1.71	0.56
3:D4:42:ASN:HD22	3:D4:44:ILE:HG22	1.65	0.56
3:D7:61:TYR:HB3	3:D7:205:LEU:HD23	1.87	0.56
3:D8:53:PHE:CE2	3:D8:205:LEU:HD13	2.41	0.56
3:D8:86:HIS:ND1	3:D8:87:GLY:N	2.54	0.56
3:D9:122:VAL:O	3:D9:143:HIS:HB2	2.06	0.56
3:DA:86:HIS:ND1	3:DA:87:GLY:N	2.54	0.56
3:DD:86:HIS:ND1	3:DD:87:GLY:N	2.54	0.56
3:DQ:179:VAL:HG12	3:DQ:181:GLY:H	1.71	0.56
3:DR:179:VAL:HG12	3:DR:181:GLY:H	1.71	0.56
3:Da:179:VAL:HG12	3:Da:181:GLY:H	1.71	0.56
3:Db:99:GLN:HB2	3:Db:217:ARG:HG3	1.87	0.56
3:Dc:179:VAL:HG12	3:Dc:181:GLY:H	1.71	0.56
3:Dh:42:ASN:HD22	3:Dh:44:ILE:HG22	1.65	0.56
3:Dh:99:GLN:HB2	3:Dh:217:ARG:HG3	1.87	0.56
3:Dj:53:PHE:CE2	3:Dj:205:LEU:HD13	2.41	0.56
3:Dk:179:VAL:HG12	3:Dk:181:GLY:H	1.71	0.56
3:Dm:61:TYR:HB3	3:Dm:205:LEU:HD23	1.87	0.56
3:Dr:61:TYR:HB3	3:Dr:205:LEU:HD23	1.87	0.56
3:Ds:61:TYR:HB3	3:Ds:205:LEU:HD23	1.87	0.56
3:EB:42:ASN:HD22	3:EB:44:ILE:HG22	1.66	0.56
3:EC:99:GLN:HB2	3:EC:217:ARG:HG3	1.87	0.56
1:A1:80:SER:HB3	1:A1:216:ALA:HA	1.88	0.56
1:A7:49:THR:HG22	1:A7:50:GLY:N	2.21	0.56
1:AA:80:SER:HB3	1:AA:216:ALA:HA	1.88	0.56
1:AB:80:SER:HB3	1:AB:216:ALA:HA	1.88	0.56
1:AL:49:THR:HG22	1:AL:50:GLY:N	2.21	0.56
1:AO:80:SER:HB3	1:AO:216:ALA:HA	1.88	0.56
1:AP:49:THR:HG22	1:AP:50:GLY:N	2.21	0.56
1:AQ:88:PHE:HE1	1:AQ:205:GLY:C	2.14	0.56
1:AV:80:SER:HB3	1:AV:216:ALA:HA	1.88	0.56
1:AZ:80:SER:HB3	1:AZ:216:ALA:HA	1.88	0.56
1:Ag:49:THR:HG22	1:Ag:50:GLY:N	2.21	0.56
1:Ai:103:TRP:HZ2	1:Aj:208:TYR:CE2	2.23	0.56
1:Am:165:ARG:O	3:Do:34:ARG:HG2	2.05	0.56
1:BA:244:ASN:OD1	3:Dp:172:ALA:HB1	2.06	0.56
1:BC:80:SER:HB3	1:BC:216:ALA:HA	1.88	0.56
1:BC:88:PHE:HE1	1:BC:205:GLY:C	2.14	0.56
1:BC:165:ARG:O	3:Dr:34:ARG:HG2	2.05	0.56
1:BD:80:SER:HB3	1:BD:216:ALA:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:165:ARG:O	3:Ds:34:ARG:HG2	2.05	0.56
1:BG:244:ASN:OD1	3:EC:172:ALA:HB1	2.06	0.56
2:C1:84:PRO:HD3	2:C1:108:TRP:HZ2	1.71	0.56
2:C2:75:HIS:HE2	3:D2:59:LYS:HB3	1.71	0.56
2:C2:218:ILE:O	2:C2:219:ASP:HB2	2.06	0.56
2:C4:202:LEU:HD11	2:C4:209:VAL:HG21	1.88	0.56
2:C7:84:PRO:HD3	2:C7:108:TRP:HZ2	1.70	0.56
2:CC:84:PRO:HD3	2:CC:108:TRP:HZ2	1.71	0.56
2:CD:75:HIS:HE2	3:DD:59:LYS:HB3	1.71	0.56
2:CF:36:TYR:HE2	2:CF:130:PRO:HG3	1.71	0.56
2:CG:75:HIS:HE2	3:DG:59:LYS:HB3	1.71	0.56
2:CJ:75:HIS:HE2	3:DJ:59:LYS:HB3	1.71	0.56
2:CJ:202:LEU:HD11	2:CJ:209:VAL:HG21	1.88	0.56
2:CK:119:ALA:O	2:CK:205:PRO:HD3	2.06	0.56
2:CK:160:HIS:HD1	2:CK:160:HIS:H	1.52	0.56
2:CL:63:THR:HG22	3:Dk:188:LEU:HD21	1.88	0.56
2:CO:98:VAL:O	2:CO:98:VAL:HG12	2.04	0.56
2:CO:115:ASN:CA	3:DP:119:LYS:HD2	2.31	0.56
2:CR:73:GLN:HA	2:CR:73:GLN:NE2	2.17	0.56
2:CS:119:ALA:O	2:CS:205:PRO:HD3	2.06	0.56
2:CU:63:THR:HG22	3:Dg:188:LEU:HD21	1.87	0.56
2:CY:75:HIS:HE2	3:DY:59:LYS:HB3	1.71	0.56
2:Ca:63:THR:N	3:DL:139:MET:HG3	2.19	0.56
2:Cf:36:TYR:HE2	2:Cf:130:PRO:HG3	1.71	0.56
2:Cf:84:PRO:HD3	2:Cf:108:TRP:HZ2	1.71	0.56
2:Cg:36:TYR:HE2	2:Cg:130:PRO:HG3	1.71	0.56
2:Cg:75:HIS:HE2	3:Dg:59:LYS:HB3	1.71	0.56
2:Ch:202:LEU:HD11	2:Ch:209:VAL:HG21	1.88	0.56
2:Ci:75:HIS:HE2	3:Di:59:LYS:HB3	1.71	0.56
2:Cl:84:PRO:HD3	2:Cl:108:TRP:HZ2	1.70	0.56
2:Cl:119:ALA:O	2:Cl:205:PRO:HD3	2.06	0.56
2:Cm:73:GLN:HA	2:Cm:73:GLN:NE2	2.17	0.56
2:Cm:202:LEU:HD11	2:Cm:209:VAL:HG21	1.88	0.56
2:Cn:75:HIS:HE2	3:Dn:59:LYS:HB3	1.71	0.56
2:Co:98:VAL:O	2:Co:98:VAL:HG12	2.04	0.56
2:Cv:75:HIS:HE2	3:EC:59:LYS:HB3	1.71	0.56
2:Cv:209:VAL:N	2:Cv:210:PRO:CD	2.68	0.56
3:D3:99:GLN:HB2	3:D3:217:ARG:HG3	1.87	0.56
3:DB:53:PHE:CE2	3:DB:205:LEU:HD13	2.41	0.56
3:DB:179:VAL:HG12	3:DB:181:GLY:H	1.71	0.56
3:DE:61:TYR:HB3	3:DE:205:LEU:HD23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:109:ILE:HB	3:DJ:205:LEU:HB2	1.88	0.56
3:DO:109:ILE:HB	3:DO:205:LEU:HB2	1.88	0.56
3:DP:86:HIS:ND1	3:DP:87:GLY:N	2.54	0.56
3:DS:86:HIS:ND1	3:DS:87:GLY:N	2.54	0.56
3:DV:53:PHE:CE2	3:DV:205:LEU:HD13	2.41	0.56
3:Da:86:HIS:ND1	3:Da:87:GLY:N	2.54	0.56
3:Dc:86:HIS:ND1	3:Dc:87:GLY:N	2.54	0.56
3:Dd:109:ILE:HB	3:Dd:205:LEU:HB2	1.88	0.56
3:Dg:179:VAL:HG12	3:Dg:181:GLY:H	1.71	0.56
3:Di:42:ASN:HD22	3:Di:44:ILE:HG22	1.65	0.56
3:Dj:179:VAL:HG12	3:Dj:181:GLY:H	1.71	0.56
3:Dk:122:VAL:O	3:Dk:143:HIS:HB2	2.05	0.56
3:Do:53:PHE:CE2	3:Do:205:LEU:HD13	2.41	0.56
3:Ds:109:ILE:HB	3:Ds:205:LEU:HB2	1.88	0.56
3:EA:53:PHE:CE2	3:EA:205:LEU:HD13	2.41	0.56
3:EE:61:TYR:HB3	3:EE:205:LEU:HD23	1.87	0.56
3:EE:86:HIS:ND1	3:EE:87:GLY:N	2.54	0.56
1:A2:80:SER:HB3	1:A2:216:ALA:HA	1.88	0.56
1:A3:165:ARG:HB2	3:D4:33:PRO:O	2.06	0.56
1:A6:19:LEU:HD12	3:D7:160:TYR:HB3	1.88	0.56
1:A6:80:SER:HB3	1:A6:216:ALA:HA	1.88	0.56
1:AC:88:PHE:HE1	1:AC:205:GLY:C	2.14	0.56
1:AE:80:SER:HB3	1:AE:216:ALA:HA	1.88	0.56
1:AG:49:THR:HG22	1:AG:50:GLY:N	2.21	0.56
1:AK:208:TYR:CE2	1:AO:103:TRP:HZ2	2.23	0.56
1:AM:244:ASN:OD1	3:DM:172:ALA:HB1	2.06	0.56
1:AO:165:ARG:O	3:DO:34:ARG:HG2	2.05	0.56
1:AS:165:ARG:O	3:DT:34:ARG:HG2	2.05	0.56
1:AT:19:LEU:HD12	3:DU:160:TYR:HB3	1.88	0.56
1:AT:165:ARG:O	3:DU:34:ARG:HG2	2.05	0.56
1:AU:88:PHE:HE1	1:AU:205:GLY:C	2.14	0.56
1:AV:19:LEU:HD12	3:DW:160:TYR:HB3	1.88	0.56
1:AV:102:VAL:HG22	1:AV:199:SER:CB	2.30	0.56
1:AW:49:THR:HG22	1:AW:50:GLY:N	2.21	0.56
1:AW:80:SER:HB3	1:AW:216:ALA:HA	1.88	0.56
1:Aa:80:SER:HB3	1:Aa:216:ALA:HA	1.88	0.56
1:Aa:103:TRP:HZ2	1:Ab:208:TYR:CE2	2.23	0.56
1:Ab:80:SER:HB3	1:Ab:216:ALA:HA	1.88	0.56
1:Ac:49:THR:HG22	1:Ac:50:GLY:N	2.21	0.56
1:Aj:80:SER:HB3	1:Aj:216:ALA:HA	1.88	0.56
1:Aj:88:PHE:CE1	1:Aj:205:GLY:C	2.84	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:49:THR:HG22	1:Ao:50:GLY:N	2.21	0.56
1:BA:49:THR:HG22	1:BA:50:GLY:N	2.21	0.56
1:BE:49:THR:HG22	1:BE:50:GLY:N	2.21	0.56
1:BF:165:ARG:HB2	3:EB:33:PRO:O	2.06	0.56
1:BG:88:PHE:CE1	1:BG:205:GLY:C	2.84	0.56
1:BI:19:LEU:HD12	3:EE:160:TYR:HB3	1.88	0.56
2:C2:84:PRO:HD3	2:C2:108:TRP:HZ2	1.71	0.56
2:C2:153:GLN:NE2	3:D2:55:SER:HB2	2.19	0.56
2:C2:202:LEU:HD11	2:C2:209:VAL:HG21	1.88	0.56
2:CD:63:THR:HG22	3:D7:188:LEU:HD21	1.88	0.56
2:CE:218:ILE:O	2:CE:219:ASP:HB2	2.06	0.56
2:CJ:63:THR:HG22	3:DA:188:LEU:HD21	1.87	0.56
2:CQ:202:LEU:HD11	2:CQ:209:VAL:HG21	1.88	0.56
2:CR:98:VAL:O	2:CR:98:VAL:HG12	2.04	0.56
2:CV:202:LEU:HD11	2:CV:209:VAL:HG21	1.88	0.56
2:CX:218:ILE:O	2:CX:219:ASP:HB2	2.06	0.56
2:Ca:218:ILE:O	2:Ca:219:ASP:HB2	2.06	0.56
2:Cb:75:HIS:HE2	3:Db:59:LYS:HB3	1.71	0.56
2:Cb:84:PRO:HD3	2:Cb:108:TRP:HZ2	1.71	0.56
2:Cc:36:TYR:HE2	2:Cc:130:PRO:HG3	1.71	0.56
2:Ch:223:ASN:H	2:Ch:223:ASN:ND2	2.02	0.56
2:Cj:75:HIS:HE2	3:Dj:59:LYS:HB3	1.71	0.56
2:Cl:218:ILE:O	2:Cl:219:ASP:HB2	2.06	0.56
2:Cm:63:THR:HG22	3:DD:188:LEU:HD21	1.87	0.56
2:Cr:218:ILE:O	2:Cr:219:ASP:HB2	2.06	0.56
2:Cs:63:THR:HG22	3:EA:188:LEU:HD21	1.87	0.56
2:Ct:84:PRO:HD3	2:Ct:108:TRP:HZ2	1.71	0.56
3:D0:53:PHE:CE2	3:D0:205:LEU:HD13	2.41	0.56
3:D0:179:VAL:HG12	3:D0:181:GLY:H	1.71	0.56
3:D3:179:VAL:HG12	3:D3:181:GLY:H	1.71	0.56
3:D4:179:VAL:HG12	3:D4:181:GLY:H	1.71	0.56
3:D5:86:HIS:ND1	3:D5:87:GLY:N	2.54	0.56
3:D7:179:VAL:HG12	3:D7:181:GLY:H	1.71	0.56
3:DC:122:VAL:O	3:DC:143:HIS:HB2	2.05	0.56
3:DD:179:VAL:HG12	3:DD:181:GLY:H	1.71	0.56
3:DL:53:PHE:CE2	3:DL:205:LEU:HD13	2.41	0.56
3:DY:109:ILE:HB	3:DY:205:LEU:HB2	1.88	0.56
3:De:61:TYR:HB3	3:De:205:LEU:HD23	1.87	0.56
3:Df:109:ILE:HB	3:Df:205:LEU:HB2	1.88	0.56
3:Dn:122:VAL:O	3:Dn:143:HIS:HB2	2.05	0.56
3:Do:122:VAL:O	3:Do:143:HIS:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dq:53:PHE:CE2	3:Dq:205:LEU:HD13	2.41	0.56
3:EC:61:TYR:HB3	3:EC:205:LEU:HD23	1.87	0.56
1:A0:19:LEU:HD12	3:D1:160:TYR:HB3	1.89	0.55
1:A0:80:SER:HB3	1:A0:216:ALA:HA	1.88	0.55
1:A1:88:PHE:CE1	1:A1:205:GLY:C	2.85	0.55
1:A3:49:THR:HG22	1:A3:50:GLY:N	2.21	0.55
1:A3:80:SER:HB3	1:A3:216:ALA:HA	1.88	0.55
1:A4:88:PHE:CE1	1:A4:205:GLY:C	2.85	0.55
1:A6:49:THR:HG22	1:A6:50:GLY:N	2.21	0.55
1:AD:88:PHE:CE1	1:AD:205:GLY:C	2.85	0.55
1:AF:49:THR:HG22	1:AF:50:GLY:N	2.21	0.55
1:AH:103:TRP:HZ2	1:AI:208:TYR:CE2	2.23	0.55
1:AP:80:SER:HB3	1:AP:216:ALA:HA	1.88	0.55
1:AR:244:ASN:OD1	3:DR:172:ALA:HB1	2.06	0.55
1:AT:88:PHE:CE1	1:AT:205:GLY:C	2.85	0.55
1:AX:49:THR:HG22	1:AX:50:GLY:N	2.21	0.55
1:AY:244:ASN:OD1	3:DZ:172:ALA:HB1	2.06	0.55
1:AZ:244:ASN:OD1	3:D0:172:ALA:HB1	2.06	0.55
1:Ab:49:THR:HG22	1:Ab:50:GLY:N	2.21	0.55
1:Ab:88:PHE:CE1	1:Ab:205:GLY:C	2.85	0.55
1:Ai:244:ASN:OD1	3:Dk:172:ALA:HB1	2.06	0.55
1:Ak:49:THR:HG22	1:Ak:50:GLY:N	2.21	0.55
1:Ak:80:SER:HB3	1:Ak:216:ALA:HA	1.89	0.55
1:Am:244:ASN:OD1	3:Do:172:ALA:HB1	2.06	0.55
1:An:88:PHE:CE1	1:An:205:GLY:C	2.85	0.55
1:Ao:80:SER:HB3	1:Ao:216:ALA:HA	1.88	0.55
1:Ao:244:ASN:OD1	3:DS:172:ALA:HB1	2.06	0.55
1:BF:88:PHE:HE1	1:BF:205:GLY:C	2.14	0.55
1:BI:165:ARG:O	3:EE:34:ARG:HG2	2.05	0.55
2:C0:63:THR:HG22	3:DQ:188:LEU:HD21	1.87	0.55
2:C2:119:ALA:O	2:C2:205:PRO:HD3	2.06	0.55
2:C2:223:ASN:H	2:C2:223:ASN:ND2	2.01	0.55
2:C3:202:LEU:HD11	2:C3:209:VAL:HG21	1.89	0.55
2:C5:202:LEU:HD11	2:C5:209:VAL:HG21	1.88	0.55
2:CB:75:HIS:HE2	3:DB:59:LYS:HB3	1.71	0.55
2:CC:36:TYR:HE2	2:CC:130:PRO:HG3	1.71	0.55
2:CC:202:LEU:HD11	2:CC:209:VAL:HG21	1.88	0.55
2:CD:202:LEU:HD11	2:CD:209:VAL:HG21	1.88	0.55
2:CF:84:PRO:HD3	2:CF:108:TRP:HZ2	1.71	0.55
2:CG:36:TYR:HE2	2:CG:130:PRO:HG3	1.71	0.55
2:CH:202:LEU:HD11	2:CH:209:VAL:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:202:LEU:HD11	2:CI:209:VAL:HG21	1.88	0.55
2:CJ:84:PRO:HD3	2:CJ:108:TRP:HZ2	1.70	0.55
2:CS:73:GLN:HA	2:CS:73:GLN:NE2	2.17	0.55
2:CT:84:PRO:HD3	2:CT:108:TRP:HZ2	1.71	0.55
2:CX:84:PRO:HD3	2:CX:108:TRP:HZ2	1.71	0.55
2:CX:202:LEU:HD11	2:CX:209:VAL:HG21	1.88	0.55
2:Cd:36:TYR:HE2	2:Cd:130:PRO:HG3	1.71	0.55
2:Ce:218:ILE:O	2:Ce:219:ASP:HB2	2.06	0.55
2:Ch:75:HIS:HE2	3:Dh:59:LYS:HB3	1.71	0.55
2:Ck:36:TYR:HE2	2:Ck:130:PRO:HG3	1.71	0.55
2:Cm:36:TYR:HE2	2:Cm:130:PRO:HG3	1.71	0.55
2:Cm:119:ALA:O	2:Cm:205:PRO:HD3	2.06	0.55
2:Co:63:THR:HG22	3:DR:188:LEU:HD21	1.88	0.55
2:Cs:223:ASN:H	2:Cs:223:ASN:ND2	2.01	0.55
2:Ct:36:TYR:HE2	2:Ct:130:PRO:HG3	1.71	0.55
2:Cv:84:PRO:HD3	2:Cv:108:TRP:HZ2	1.71	0.55
2:Cw:119:ALA:O	2:Cw:205:PRO:HD3	2.06	0.55
3:D1:122:VAL:O	3:D1:143:HIS:HB2	2.06	0.55
3:D2:53:PHE:CE2	3:D2:205:LEU:HD13	2.41	0.55
3:D5:109:ILE:HB	3:D5:205:LEU:HB2	1.88	0.55
3:D8:179:VAL:HG12	3:D8:181:GLY:H	1.71	0.55
3:DE:121:LEU:HD22	3:DE:186:TYR:HB2	1.89	0.55
3:DK:42:ASN:HD22	3:DK:44:ILE:HG22	1.65	0.55
3:DL:86:HIS:ND1	3:DL:87:GLY:N	2.54	0.55
3:DM:122:VAL:O	3:DM:143:HIS:HB2	2.05	0.55
3:DQ:61:TYR:HB3	3:DQ:205:LEU:HD23	1.87	0.55
3:DU:109:ILE:HB	3:DU:205:LEU:HB2	1.88	0.55
3:Dc:42:ASN:HD22	3:Dc:44:ILE:HG22	1.65	0.55
3:Dd:122:VAL:O	3:Dd:143:HIS:HB2	2.05	0.55
3:Dg:53:PHE:CE2	3:Dg:205:LEU:HD13	2.41	0.55
3:Dn:53:PHE:CE2	3:Dn:205:LEU:HD13	2.41	0.55
3:Dq:179:VAL:HG12	3:Dq:181:GLY:H	1.71	0.55
3:Ds:99:GLN:HB2	3:Ds:217:ARG:HG3	1.87	0.55
3:EB:179:VAL:HG12	3:EB:181:GLY:H	1.71	0.55
3:ED:61:TYR:HB3	3:ED:205:LEU:HD23	1.87	0.55
1:A0:244:ASN:OD1	3:D1:172:ALA:HB1	2.06	0.55
1:A3:208:TYR:CE2	1:A7:103:TRP:HZ2	2.23	0.55
1:A4:86:ILE:N	1:A4:86:ILE:CD1	2.65	0.55
1:A5:165:ARG:O	3:D6:34:ARG:HG2	2.05	0.55
1:A5:244:ASN:OD1	3:D6:172:ALA:HB1	2.06	0.55
1:A6:165:ARG:HB2	3:D7:33:PRO:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:88:PHE:CE1	1:A9:205:GLY:C	2.85	0.55
1:AB:49:THR:HG22	1:AB:50:GLY:N	2.21	0.55
1:AC:165:ARG:HB2	3:DC:33:PRO:O	2.07	0.55
1:AD:80:SER:HB3	1:AD:216:ALA:HA	1.88	0.55
1:AG:244:ASN:OD1	3:DG:172:ALA:HB1	2.06	0.55
1:AH:80:SER:HB3	1:AH:216:ALA:HA	1.88	0.55
1:AI:88:PHE:HE1	1:AI:205:GLY:C	2.14	0.55
1:AL:19:LEU:HD12	3:DL:160:TYR:HB3	1.89	0.55
1:AM:88:PHE:HE1	1:AM:205:GLY:C	2.14	0.55
1:AQ:165:ARG:HB2	3:DQ:33:PRO:O	2.06	0.55
1:AT:165:ARG:HB2	3:DU:33:PRO:O	2.06	0.55
1:Aa:88:PHE:CE1	1:Aa:205:GLY:C	2.85	0.55
1:Ad:88:PHE:CE1	1:Ad:205:GLY:C	2.85	0.55
1:Ae:80:SER:HB3	1:Ae:216:ALA:HA	1.88	0.55
1:Ae:165:ARG:HB2	3:Dg:33:PRO:O	2.07	0.55
1:Af:19:LEU:HD12	3:Dh:160:TYR:HB3	1.89	0.55
1:Af:88:PHE:HE1	1:Af:205:GLY:C	2.14	0.55
1:Af:165:ARG:O	3:Dh:34:ARG:HG2	2.05	0.55
1:Ah:88:PHE:CE1	1:Ah:205:GLY:C	2.85	0.55
1:Aj:244:ASN:OD1	3:DI:172:ALA:HB1	2.06	0.55
1:Ak:165:ARG:O	3:Dm:34:ARG:HG2	2.05	0.55
1:Al:49:THR:HG22	1:Al:50:GLY:N	2.21	0.55
1:An:206:GLY:O	1:An:207:CYS:SG	2.62	0.55
1:Ao:88:PHE:HE1	1:Ao:205:GLY:C	2.13	0.55
1:BF:49:THR:HG22	1:BF:50:GLY:N	2.21	0.55
1:BF:88:PHE:CE1	1:BF:205:GLY:C	2.85	0.55
2:C0:218:ILE:O	2:C0:219:ASP:HB2	2.06	0.55
2:C3:84:PRO:HD3	2:C3:108:TRP:HZ2	1.71	0.55
2:C7:63:THR:HG22	3:Dm:188:LEU:HD21	1.87	0.55
2:C8:98:VAL:O	2:C8:98:VAL:HG12	2.04	0.55
2:C9:119:ALA:O	2:C9:205:PRO:HD3	2.06	0.55
2:CA:63:THR:HG22	3:DW:188:LEU:HD21	1.87	0.55
2:CA:119:ALA:O	2:CA:205:PRO:HD3	2.06	0.55
2:CG:119:ALA:O	2:CG:205:PRO:HD3	2.06	0.55
2:CJ:73:GLN:HA	2:CJ:73:GLN:NE2	2.17	0.55
2:CP:84:PRO:HD3	2:CP:108:TRP:HZ2	1.71	0.55
2:CR:84:PRO:HD3	2:CR:108:TRP:HZ2	1.71	0.55
2:CT:119:ALA:O	2:CT:205:PRO:HD3	2.06	0.55
2:CU:84:PRO:HD3	2:CU:108:TRP:HZ2	1.71	0.55
2:CW:84:PRO:HD3	2:CW:108:TRP:HZ2	1.71	0.55
2:CX:63:THR:HG22	3:Dr:188:LEU:HD21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:119:ALA:O	2:CX:205:PRO:HD3	2.06	0.55
2:Cb:63:THR:HG22	3:DT:188:LEU:HD21	1.87	0.55
2:Cb:119:ALA:O	2:Cb:205:PRO:HD3	2.06	0.55
2:Cn:119:ALA:O	2:Cn:205:PRO:HD3	2.06	0.55
2:Co:218:ILE:O	2:Co:219:ASP:HB2	2.06	0.55
2:Cr:98:VAL:O	2:Cr:98:VAL:HG12	2.04	0.55
2:Cs:202:LEU:HD11	2:Cs:209:VAL:HG21	1.88	0.55
3:D0:86:HIS:ND1	3:D0:87:GLY:N	2.54	0.55
3:D1:179:VAL:HG12	3:D1:181:GLY:H	1.71	0.55
3:DA:122:VAL:O	3:DA:143:HIS:HB2	2.05	0.55
3:DF:53:PHE:CE2	3:DF:205:LEU:HD13	2.41	0.55
3:DF:109:ILE:HB	3:DF:205:LEU:HB2	1.88	0.55
3:DH:179:VAL:HG12	3:DH:181:GLY:H	1.71	0.55
3:DI:86:HIS:ND1	3:DI:87:GLY:N	2.54	0.55
3:DL:122:VAL:O	3:DL:143:HIS:HB2	2.05	0.55
3:DM:121:LEU:HD22	3:DM:186:TYR:HB2	1.89	0.55
3:DT:121:LEU:HD22	3:DT:186:TYR:HB2	1.89	0.55
3:DT:122:VAL:O	3:DT:143:HIS:HB2	2.05	0.55
3:DV:122:VAL:O	3:DV:143:HIS:HB2	2.05	0.55
3:DX:61:TYR:HB3	3:DX:205:LEU:HD23	1.87	0.55
3:Dc:56:ILE:HG13	3:Dc:74:PHE:HE1	1.72	0.55
3:Dc:122:VAL:O	3:Dc:143:HIS:HB2	2.05	0.55
3:Dh:109:ILE:HB	3:Dh:205:LEU:HB2	1.88	0.55
3:Dl:56:ILE:HG13	3:Dl:74:PHE:HE1	1.72	0.55
3:Dm:99:GLN:HB2	3:Dm:217:ARG:HG3	1.87	0.55
3:Dn:121:LEU:HD22	3:Dn:186:TYR:HB2	1.89	0.55
3:Dq:86:HIS:ND1	3:Dq:87:GLY:N	2.54	0.55
3:Dq:121:LEU:HD22	3:Dq:186:TYR:HB2	1.89	0.55
3:Dr:122:VAL:O	3:Dr:143:HIS:HB2	2.05	0.55
3:EC:122:VAL:O	3:EC:143:HIS:HB2	2.05	0.55
1:A5:80:SER:HB3	1:A5:216:ALA:HA	1.88	0.55
1:A6:165:ARG:O	3:D7:34:ARG:HG2	2.05	0.55
1:A7:80:SER:HB3	1:A7:216:ALA:HA	1.88	0.55
1:A8:19:LEU:HD12	3:D9:160:TYR:HB3	1.88	0.55
1:A8:88:PHE:HE1	1:A8:205:GLY:C	2.13	0.55
1:A9:244:ASN:OD1	3:Da:172:ALA:HB1	2.06	0.55
1:AB:88:PHE:CE1	1:AB:205:GLY:C	2.85	0.55
1:AB:244:ASN:OD1	3:DB:172:ALA:HB1	2.06	0.55
1:AF:244:ASN:OD1	3:DF:172:ALA:HB1	2.06	0.55
1:AG:88:PHE:CE1	1:AG:205:GLY:C	2.85	0.55
1:AH:244:ASN:OD1	3:DH:172:ALA:HB1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:88:PHE:CE1	1:AI:205:GLY:C	2.85	0.55
1:AK:88:PHE:CE1	1:AK:205:GLY:C	2.84	0.55
1:AN:244:ASN:OD1	3:DN:172:ALA:HB1	2.06	0.55
1:AO:165:ARG:HB2	3:DO:33:PRO:O	2.06	0.55
1:AP:88:PHE:HE1	1:AP:205:GLY:C	2.14	0.55
1:AR:165:ARG:HB2	3:DR:33:PRO:O	2.07	0.55
1:AU:244:ASN:OD1	3:DV:172:ALA:HB1	2.06	0.55
1:AY:80:SER:HB3	1:AY:216:ALA:HA	1.88	0.55
1:AZ:165:ARG:O	3:D0:34:ARG:HG2	2.05	0.55
1:Ac:19:LEU:HD12	3:De:160:TYR:HB3	1.88	0.55
1:Ac:88:PHE:HE1	1:Ac:205:GLY:C	2.14	0.55
1:Ag:19:LEU:HD12	3:Di:160:TYR:HB3	1.89	0.55
1:Ag:88:PHE:CE1	1:Ag:205:GLY:C	2.84	0.55
1:Ah:19:LEU:HD12	3:Dj:160:TYR:HB3	1.89	0.55
1:Ak:165:ARG:HB2	3:Dm:33:PRO:O	2.06	0.55
1:Al:80:SER:HB3	1:Al:216:ALA:HA	1.88	0.55
1:Al:165:ARG:HB2	3:Dn:33:PRO:O	2.06	0.55
1:Al:244:ASN:OD1	3:Dn:172:ALA:HB1	2.06	0.55
1:BA:80:SER:HB3	1:BA:216:ALA:HA	1.88	0.55
1:BB:49:THR:HG22	1:BB:50:GLY:N	2.21	0.55
1:BB:80:SER:HB3	1:BB:216:ALA:HA	1.88	0.55
1:BD:244:ASN:OD1	3:Ds:172:ALA:HB1	2.06	0.55
1:BE:244:ASN:OD1	3:EA:172:ALA:HB1	2.06	0.55
1:BG:19:LEU:HD12	3:EC:160:TYR:HB3	1.89	0.55
1:BG:165:ARG:HB2	3:EC:33:PRO:O	2.06	0.55
1:BH:244:ASN:OD1	3:ED:172:ALA:HB1	2.06	0.55
2:C0:84:PRO:HG3	2:C0:108:TRP:HH2	1.72	0.55
2:C0:84:PRO:HD3	2:C0:108:TRP:HZ2	1.71	0.55
2:C0:202:LEU:HD11	2:C0:209:VAL:HG21	1.88	0.55
2:C3:223:ASN:H	2:C3:223:ASN:ND2	2.01	0.55
2:C6:115:ASN:CA	3:DE:119:LYS:HD2	2.31	0.55
2:C8:202:LEU:HD11	2:C8:209:VAL:HG21	1.88	0.55
2:C9:218:ILE:O	2:C9:219:ASP:HB2	2.06	0.55
2:CA:209:VAL:N	2:CA:210:PRO:CD	2.68	0.55
2:CD:160:HIS:HD1	2:CD:160:HIS:H	1.52	0.55
2:CJ:119:ALA:O	2:CJ:205:PRO:HD3	2.06	0.55
2:CM:202:LEU:HD11	2:CM:209:VAL:HG21	1.88	0.55
2:CP:63:THR:HG22	3:D1:188:LEU:HD21	1.87	0.55
2:CP:209:VAL:N	2:CP:210:PRO:CD	2.68	0.55
2:CR:218:ILE:O	2:CR:219:ASP:HB2	2.06	0.55
2:CT:202:LEU:HD11	2:CT:209:VAL:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:209:VAL:N	2:CX:210:PRO:CD	2.68	0.55
2:Cc:202:LEU:HD11	2:Cc:209:VAL:HG21	1.88	0.55
2:Cc:218:ILE:O	2:Cc:219:ASP:HB2	2.06	0.55
2:Ce:225:PRO:HG2	3:Df:141:CYS:HA	1.89	0.55
2:Cf:202:LEU:HD11	2:Cf:209:VAL:HG21	1.88	0.55
2:Cg:84:PRO:HD3	2:Cg:108:TRP:HZ2	1.71	0.55
2:Ch:119:ALA:O	2:Ch:205:PRO:HD3	2.06	0.55
2:Ci:36:TYR:HE2	2:Ci:130:PRO:HG3	1.71	0.55
2:Cm:75:HIS:HE2	3:Dm:59:LYS:HB3	1.71	0.55
2:Co:73:GLN:HA	2:Co:73:GLN:NE2	2.17	0.55
2:Cs:119:ALA:O	2:Cs:205:PRO:HD3	2.06	0.55
2:Ct:202:LEU:HD11	2:Ct:209:VAL:HG21	1.88	0.55
2:Cu:36:TYR:HE2	2:Cu:130:PRO:HG3	1.70	0.55
2:Cx:209:VAL:N	2:Cx:210:PRO:CD	2.68	0.55
3:D4:86:HIS:ND1	3:D4:87:GLY:N	2.54	0.55
3:D9:109:ILE:HB	3:D9:205:LEU:HB2	1.88	0.55
3:DB:109:ILE:HB	3:DB:205:LEU:HB2	1.88	0.55
3:DI:61:TYR:HB3	3:DI:205:LEU:HD23	1.87	0.55
3:DM:53:PHE:CE2	3:DM:205:LEU:HD13	2.41	0.55
3:DM:86:HIS:ND1	3:DM:87:GLY:N	2.54	0.55
3:DN:56:ILE:HG13	3:DN:74:PHE:HE1	1.72	0.55
3:DU:122:VAL:O	3:DU:143:HIS:HB2	2.05	0.55
3:DX:122:VAL:O	3:DX:143:HIS:HB2	2.05	0.55
3:DZ:109:ILE:HB	3:DZ:205:LEU:HB2	1.88	0.55
3:Da:99:GLN:HB2	3:Da:217:ARG:HG3	1.87	0.55
3:De:122:VAL:O	3:De:143:HIS:HB2	2.05	0.55
3:Df:61:TYR:HB3	3:Df:205:LEU:HD23	1.87	0.55
3:Df:179:VAL:HG12	3:Df:181:GLY:H	1.71	0.55
3:Dj:99:GLN:HB2	3:Dj:217:ARG:HG3	1.87	0.55
3:Dl:179:VAL:HG12	3:Dl:181:GLY:H	1.71	0.55
3:Dm:86:HIS:ND1	3:Dm:87:GLY:N	2.54	0.55
3:Ds:179:VAL:HG12	3:Ds:181:GLY:H	1.71	0.55
3:EA:86:HIS:ND1	3:EA:87:GLY:N	2.54	0.55
3:EC:109:ILE:HB	3:EC:205:LEU:HB2	1.88	0.55
3:ED:86:HIS:ND1	3:ED:87:GLY:N	2.54	0.55
1:A2:165:ARG:O	3:D3:34:ARG:HG2	2.05	0.55
1:A3:88:PHE:CE1	1:A3:205:GLY:C	2.84	0.55
1:A4:80:SER:HB3	1:A4:216:ALA:HA	1.88	0.55
1:A4:88:PHE:HE1	1:A4:205:GLY:C	2.14	0.55
1:A4:244:ASN:OD1	3:D5:172:ALA:HB1	2.06	0.55
1:A5:19:LEU:HD12	3:D6:160:TYR:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:244:ASN:OD1	3:D9:172:ALA:HB1	2.06	0.55
1:AA:88:PHE:CE1	1:AA:205:GLY:C	2.85	0.55
1:AG:19:LEU:HD12	3:DG:160:TYR:HB3	1.88	0.55
1:AG:80:SER:HB3	1:AG:216:ALA:HA	1.88	0.55
1:AH:88:PHE:CE1	1:AH:205:GLY:C	2.84	0.55
1:AJ:80:SER:HB3	1:AJ:216:ALA:HA	1.88	0.55
1:AN:30:VAL:CG1	1:AN:218:MET:HE3	2.34	0.55
1:AR:88:PHE:CE1	1:AR:205:GLY:C	2.85	0.55
1:AT:208:TYR:CE2	1:AX:103:TRP:HZ2	2.23	0.55
1:AY:19:LEU:HD12	3:DZ:160:TYR:HB3	1.89	0.55
1:AZ:19:LEU:HD12	3:D0:160:TYR:HB3	1.89	0.55
1:AZ:49:THR:HG22	1:AZ:50:GLY:N	2.21	0.55
1:Ab:19:LEU:HD12	3:Dd:160:TYR:HB3	1.88	0.55
1:Ab:244:ASN:OD1	3:Dd:172:ALA:HB1	2.06	0.55
1:Ac:88:PHE:CE1	1:Ac:205:GLY:C	2.85	0.55
1:Ae:19:LEU:HD12	3:Dg:160:TYR:HB3	1.89	0.55
1:Ae:49:THR:HG22	1:Ae:50:GLY:N	2.21	0.55
1:Ah:165:ARG:O	3:Dj:34:ARG:HG2	2.05	0.55
1:Ah:244:ASN:OD1	3:Dj:172:ALA:HB1	2.06	0.55
1:Am:165:ARG:HB2	3:Do:33:PRO:O	2.07	0.55
1:BB:19:LEU:HD12	3:Dq:160:TYR:HB3	1.89	0.55
1:BD:88:PHE:CE1	1:BD:205:GLY:C	2.85	0.55
1:BH:49:THR:HG22	1:BH:50:GLY:N	2.21	0.55
1:BI:80:SER:HB3	1:BI:216:ALA:HA	1.88	0.55
2:C0:119:ALA:O	2:C0:205:PRO:HD3	2.06	0.55
2:C1:202:LEU:HD11	2:C1:209:VAL:HG21	1.88	0.55
2:C2:84:PRO:HG3	2:C2:108:TRP:HH2	1.72	0.55
2:C6:119:ALA:O	2:C6:205:PRO:HD3	2.06	0.55
2:C6:202:LEU:HD11	2:C6:209:VAL:HG21	1.88	0.55
2:C7:75:HIS:HE2	3:D7:59:LYS:HB3	1.71	0.55
2:C7:202:LEU:HD11	2:C7:209:VAL:HG21	1.88	0.55
2:CC:75:HIS:HE2	3:DC:59:LYS:HB3	1.71	0.55
2:CC:225:PRO:HG2	3:DD:141:CYS:HA	1.89	0.55
2:CD:36:TYR:HE2	2:CD:130:PRO:HG3	1.71	0.55
2:CL:84:PRO:HD3	2:CL:108:TRP:HZ2	1.71	0.55
2:CO:119:ALA:O	2:CO:205:PRO:HD3	2.06	0.55
2:CP:202:LEU:HD11	2:CP:209:VAL:HG21	1.88	0.55
2:CQ:36:TYR:HE2	2:CQ:130:PRO:HG3	1.71	0.55
2:CQ:84:PRO:HD3	2:CQ:108:TRP:HZ2	1.71	0.55
2:CQ:218:ILE:O	2:CQ:219:ASP:HB2	2.06	0.55
2:CR:75:HIS:HE2	3:DR:59:LYS:HB3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:63:THR:HG22	3:DK:188:LEU:HD21	1.88	0.55
2:CY:36:TYR:HE2	2:CY:130:PRO:HG3	1.71	0.55
2:CZ:63:THR:HG22	3:Dq:188:LEU:HD21	1.88	0.55
2:CZ:75:HIS:HE2	3:DZ:59:LYS:HB3	1.71	0.55
2:CZ:84:PRO:HG3	2:CZ:108:TRP:HH2	1.72	0.55
2:CZ:202:LEU:HD11	2:CZ:209:VAL:HG21	1.88	0.55
2:Cb:218:ILE:O	2:Cb:219:ASP:HB2	2.06	0.55
2:Cb:225:PRO:HG2	3:Dc:141:CYS:HA	1.89	0.55
2:Cc:119:ALA:O	2:Cc:205:PRO:HD3	2.06	0.55
2:Cc:75:HIS:HE2	3:De:59:LYS:HB3	1.71	0.55
2:Cr:84:PRO:HD3	2:Cr:108:TRP:HZ2	1.71	0.55
2:Cr:119:ALA:O	2:Cr:205:PRO:HD3	2.06	0.55
2:Ct:218:ILE:O	2:Ct:219:ASP:HB2	2.06	0.55
2:Cv:218:ILE:O	2:Cv:219:ASP:HB2	2.06	0.55
3:D3:86:HIS:ND1	3:D3:87:GLY:N	2.54	0.55
3:D3:122:VAL:O	3:D3:143:HIS:HB2	2.05	0.55
3:D9:74:PHE:O	3:D9:184:GLN:HA	2.07	0.55
3:DD:53:PHE:CE2	3:DD:205:LEU:HD13	2.41	0.55
3:DE:56:ILE:HG13	3:DE:74:PHE:HE1	1.72	0.55
3:DG:121:LEU:HD22	3:DG:186:TYR:HB2	1.89	0.55
3:DG:122:VAL:O	3:DG:143:HIS:HB2	2.05	0.55
3:DH:86:HIS:ND1	3:DH:87:GLY:N	2.54	0.55
3:DI:121:LEU:HD22	3:DI:186:TYR:HB2	1.89	0.55
3:DN:121:LEU:HD22	3:DN:186:TYR:HB2	1.89	0.55
3:DQ:121:LEU:HD22	3:DQ:186:TYR:HB2	1.89	0.55
3:DR:53:PHE:CE2	3:DR:205:LEU:HD13	2.41	0.55
3:DR:121:LEU:HD22	3:DR:186:TYR:HB2	1.89	0.55
3:DS:109:ILE:HB	3:DS:205:LEU:HB2	1.88	0.55
3:DX:179:VAL:HG12	3:DX:181:GLY:H	1.71	0.55
3:DY:99:GLN:HB2	3:DY:217:ARG:HG3	1.87	0.55
3:Db:53:PHE:CE2	3:Db:205:LEU:HD13	2.41	0.55
3:Db:86:HIS:ND1	3:Db:87:GLY:N	2.54	0.55
3:De:53:PHE:CE2	3:De:205:LEU:HD13	2.41	0.55
3:Df:53:PHE:CE2	3:Df:205:LEU:HD13	2.41	0.55
3:Df:74:PHE:O	3:Df:184:GLN:HA	2.07	0.55
3:Dj:74:PHE:O	3:Dj:184:GLN:HA	2.07	0.55
3:Dk:121:LEU:HD22	3:Dk:186:TYR:HB2	1.89	0.55
3:Dp:74:PHE:O	3:Dp:184:GLN:HA	2.07	0.55
3:Ds:121:LEU:HD22	3:Ds:186:TYR:HB2	1.89	0.55
1:A0:88:PHE:CE1	1:A0:205:GLY:C	2.84	0.55
1:A2:49:THR:HG22	1:A2:50:GLY:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:165:ARG:HB2	3:D3:33:PRO:O	2.07	0.55
1:A7:19:LEU:HD12	3:D8:160:TYR:HB3	1.88	0.55
1:AF:80:SER:HB3	1:AF:216:ALA:HA	1.88	0.55
1:AK:165:ARG:HB2	3:DK:33:PRO:O	2.07	0.55
1:AL:88:PHE:CE1	1:AL:205:GLY:C	2.85	0.55
1:AM:80:SER:HB3	1:AM:216:ALA:HA	1.88	0.55
1:AQ:49:THR:HG22	1:AQ:50:GLY:N	2.21	0.55
1:AX:244:ASN:OD1	3:DY:172:ALA:HB1	2.06	0.55
1:Aa:165:ARG:HB2	3:Dc:33:PRO:O	2.06	0.55
1:Ad:103:TRP:HZ2	1:Ae:208:TYR:CE2	2.23	0.55
1:Af:88:PHE:CE1	1:Af:205:GLY:C	2.85	0.55
1:Ah:80:SER:HB3	1:Ah:216:ALA:HA	1.88	0.55
1:Aj:165:ARG:HB2	3:Dl:33:PRO:O	2.06	0.55
1:Ak:88:PHE:HE1	1:Ak:205:GLY:C	2.14	0.55
1:Al:88:PHE:CE1	1:Al:205:GLY:C	2.85	0.55
1:Am:19:LEU:HD12	3:Do:160:TYR:HB3	1.89	0.55
1:An:19:LEU:HD12	3:Db:160:TYR:HB3	1.89	0.55
1:Ao:165:ARG:HB2	3:DS:33:PRO:O	2.07	0.55
1:BB:88:PHE:CE1	1:BB:205:GLY:C	2.85	0.55
1:BD:49:THR:HG22	1:BD:50:GLY:N	2.21	0.55
1:BE:88:PHE:CE1	1:BE:205:GLY:C	2.85	0.55
1:BH:19:LEU:HD12	3:ED:160:TYR:HB3	1.89	0.55
2:C0:36:TYR:CE2	2:C0:130:PRO:HG2	2.42	0.55
2:C0:75:HIS:HE2	3:D0:59:LYS:HB3	1.71	0.55
2:C4:60:ARG:O	2:C4:216:ALA:HB1	2.07	0.55
2:C5:218:ILE:O	2:C5:219:ASP:HB2	2.06	0.55
2:C6:63:THR:HG22	3:DE:188:LEU:HD21	1.87	0.55
2:C6:84:PRO:HD3	2:C6:108:TRP:HZ2	1.71	0.55
2:C6:84:PRO:HG3	2:C6:108:TRP:HH2	1.72	0.55
2:C8:218:ILE:O	2:C8:219:ASP:HB2	2.06	0.55
2:CA:202:LEU:HD11	2:CA:209:VAL:HG21	1.88	0.55
2:CB:84:PRO:HD3	2:CB:108:TRP:HZ2	1.71	0.55
2:CD:84:PRO:HG3	2:CD:108:TRP:HH2	1.72	0.55
2:CE:36:TYR:HE2	2:CE:130:PRO:HG3	1.71	0.55
2:CJ:36:TYR:CE2	2:CJ:130:PRO:HG2	2.42	0.55
2:CL:225:PRO:HG2	3:DM:141:CYS:HA	1.89	0.55
2:CR:36:TYR:HE2	2:CR:130:PRO:HG3	1.71	0.55
2:CS:225:PRO:HG2	3:DT:141:CYS:HA	1.89	0.55
2:CV:36:TYR:HE2	2:CV:130:PRO:HG3	1.71	0.55
2:CV:36:TYR:CE2	2:CV:130:PRO:HG2	2.42	0.55
2:CX:36:TYR:HE2	2:CX:130:PRO:HG3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:36:TYR:CE2	2:CY:130:PRO:HG2	2.42	0.55
2:Cd:63:THR:HG22	3:D4:188:LEU:HD21	1.87	0.55
2:Cd:84:PRO:HD3	2:Cd:108:TRP:HZ2	1.71	0.55
2:Cf:84:PRO:HG3	2:Cf:108:TRP:HH2	1.72	0.55
2:Cg:36:TYR:CE2	2:Cg:130:PRO:HG2	2.42	0.55
2:Ci:202:LEU:HD11	2:Ci:209:VAL:HG21	1.88	0.55
2:Cj:36:TYR:CE2	2:Cj:130:PRO:HG2	2.42	0.55
2:Cj:63:THR:HG22	3:DM:188:LEU:HD21	1.87	0.55
2:Cj:225:PRO:HG2	3:Dk:141:CYS:HA	1.89	0.55
2:Co:225:PRO:HG2	3:Dp:141:CYS:HA	1.89	0.55
2:Cq:27:GLN:CG	2:Cq:28:GLY:N	2.70	0.55
2:Cs:36:TYR:CE2	2:Cs:130:PRO:HG2	2.42	0.55
2:Ct:63:THR:HG22	3:DH:188:LEU:HD21	1.87	0.55
2:Cu:60:ARG:O	2:Cu:216:ALA:HB1	2.07	0.55
2:Cv:119:ALA:O	2:Cv:205:PRO:HD3	2.06	0.55
2:Cw:36:TYR:HE2	2:Cw:130:PRO:HG3	1.71	0.55
2:Cx:60:ARG:O	2:Cx:216:ALA:HB1	2.07	0.55
3:D3:121:LEU:HD22	3:D3:186:TYR:HB2	1.89	0.55
3:D5:61:TYR:HB3	3:D5:205:LEU:HD23	1.87	0.55
3:D5:179:VAL:HG12	3:D5:181:GLY:H	1.71	0.55
3:D6:53:PHE:CE2	3:D6:205:LEU:HD13	2.41	0.55
3:D6:122:VAL:O	3:D6:143:HIS:HB2	2.05	0.55
3:D7:74:PHE:O	3:D7:184:GLN:HA	2.07	0.55
3:DB:74:PHE:O	3:DB:184:GLN:HA	2.07	0.55
3:DB:86:HIS:ND1	3:DB:87:GLY:N	2.54	0.55
3:DC:121:LEU:HD22	3:DC:186:TYR:HB2	1.89	0.55
3:DC:179:VAL:HG12	3:DC:181:GLY:H	1.71	0.55
3:DF:121:LEU:HD22	3:DF:186:TYR:HB2	1.89	0.55
3:DG:74:PHE:O	3:DG:184:GLN:HA	2.07	0.55
3:DL:99:GLN:HB2	3:DL:217:ARG:HG3	1.87	0.55
3:DN:53:PHE:CE2	3:DN:205:LEU:HD13	2.41	0.55
3:DR:99:GLN:HB2	3:DR:217:ARG:HG3	1.87	0.55
3:DW:74:PHE:O	3:DW:184:GLN:HA	2.07	0.55
3:DX:86:HIS:ND1	3:DX:87:GLY:N	2.54	0.55
3:DZ:86:HIS:ND1	3:DZ:87:GLY:N	2.54	0.55
3:Dc:109:ILE:HB	3:Dc:205:LEU:HB2	1.88	0.55
3:Dd:179:VAL:HG12	3:Dd:181:GLY:H	1.71	0.55
3:Dg:74:PHE:O	3:Dg:184:GLN:HA	2.07	0.55
3:Dj:109:ILE:HB	3:Dj:205:LEU:HB2	1.88	0.55
3:Do:109:ILE:HB	3:Do:205:LEU:HB2	1.88	0.55
3:Dp:99:GLN:HB2	3:Dp:217:ARG:HG3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dp:121:LEU:HD22	3:Dp:186:TYR:HB2	1.89	0.55
3:Ds:74:PHE:O	3:Ds:184:GLN:HA	2.07	0.55
3:Ds:86:HIS:ND1	3:Ds:87:GLY:N	2.54	0.55
3:EB:122:VAL:O	3:EB:143:HIS:HB2	2.05	0.55
3:EC:121:LEU:HD22	3:EC:186:TYR:HB2	1.88	0.55
4:FI:25:PHE:CE1	4:FJ:22:VAL:HB	2.42	0.55
4:FP:28:GLN:O	4:FP:29:GLN:HG3	2.07	0.55
4:FU:28:GLN:O	4:FU:29:GLN:HG3	2.07	0.55
1:A2:88:PHE:CE1	1:A2:205:GLY:C	2.85	0.55
1:A3:88:PHE:HE1	1:A3:205:GLY:C	2.14	0.55
1:A8:165:ARG:HB2	3:D9:33:PRO:O	2.06	0.55
1:AE:165:ARG:HB2	3:DE:33:PRO:O	2.06	0.55
1:AG:165:ARG:O	3:DG:34:ARG:HG2	2.05	0.55
1:AJ:88:PHE:CE1	1:AJ:205:GLY:C	2.85	0.55
1:AJ:88:PHE:HE1	1:AJ:205:GLY:C	2.14	0.55
1:AM:88:PHE:CE1	1:AM:205:GLY:C	2.85	0.55
1:AM:176:ALA:HB1	3:DN:174:ALA:O	2.07	0.55
1:AP:165:ARG:HB2	3:DP:33:PRO:O	2.07	0.55
1:AQ:244:ASN:OD1	3:DQ:172:ALA:HB1	2.06	0.55
1:AS:102:VAL:HG22	1:AS:199:SER:CB	2.31	0.55
1:AT:80:SER:HB3	1:AT:216:ALA:HA	1.88	0.55
1:AU:80:SER:HB3	1:AU:216:ALA:HA	1.88	0.55
1:AU:103:TRP:HZ2	1:AV:208:TYR:CE2	2.23	0.55
1:AX:88:PHE:CE1	1:AX:205:GLY:C	2.85	0.55
1:AY:88:PHE:CE1	1:AY:205:GLY:C	2.85	0.55
1:Ad:80:SER:HB3	1:Ad:216:ALA:HA	1.88	0.55
1:Ae:244:ASN:OD1	3:Dg:172:ALA:HB1	2.06	0.55
1:Ah:176:ALA:HB1	3:Dk:174:ALA:O	2.07	0.55
1:Ai:49:THR:HG22	1:Ai:50:GLY:N	2.21	0.55
1:Ak:239:PHE:HD2	3:Dm:226:GLN:NE2	2.05	0.55
1:Am:88:PHE:CE1	1:Am:205:GLY:C	2.85	0.55
1:An:88:PHE:HE1	1:An:205:GLY:C	2.14	0.55
1:BD:88:PHE:HE1	1:BD:205:GLY:C	2.14	0.55
1:BD:165:ARG:HB2	3:Ds:33:PRO:O	2.06	0.55
1:BF:80:SER:HB3	1:BF:216:ALA:HA	1.88	0.55
2:C1:63:THR:HG22	3:DO:188:LEU:HD21	1.87	0.55
2:C1:75:HIS:HE2	3:D1:59:LYS:HB3	1.71	0.55
2:C8:36:TYR:CE2	2:C8:130:PRO:HG2	2.42	0.55
2:C8:63:THR:HG22	3:D9:188:LEU:HD21	1.87	0.55
2:CA:225:PRO:HG2	3:DB:141:CYS:HA	1.89	0.55
2:CG:27:GLN:CG	2:CG:28:GLY:N	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:60:ARG:O	2:CI:216:ALA:HB1	2.07	0.55
2:CJ:225:PRO:HG2	3:DF:141:CYS:HA	1.89	0.55
2:CO:60:ARG:O	2:CO:216:ALA:HB1	2.07	0.55
2:CO:84:PRO:HG3	2:CO:108:TRP:HH2	1.72	0.55
2:CP:27:GLN:CG	2:CP:28:GLY:N	2.70	0.55
2:CS:84:PRO:HG3	2:CS:108:TRP:HH2	1.72	0.55
2:CU:73:GLN:HA	2:CU:73:GLN:NE2	2.17	0.55
2:Ca:27:GLN:CG	2:Ca:28:GLY:N	2.70	0.55
2:Cc:27:GLN:CG	2:Cc:28:GLY:N	2.70	0.55
2:CI:36:TYR:CE2	2:CI:130:PRO:HG2	2.42	0.55
2:Ck:202:LEU:HD11	2:Ck:209:VAL:HG21	1.88	0.55
2:Cl:84:PRO:HG3	2:Cl:108:TRP:HH2	1.72	0.55
2:Co:60:ARG:O	2:Co:216:ALA:HB1	2.07	0.55
2:Cp:36:TYR:HE2	2:Cp:130:PRO:HG3	1.71	0.55
2:Cp:73:GLN:HA	2:Cp:73:GLN:NE2	2.17	0.55
2:Cp:84:PRO:HD3	2:Cp:108:TRP:HZ2	1.71	0.55
2:Cp:202:LEU:HD11	2:Cp:209:VAL:HG21	1.88	0.55
2:Cs:84:PRO:HG3	2:Cs:108:TRP:HH2	1.72	0.55
2:Cv:36:TYR:CE2	2:Cv:130:PRO:HG2	2.42	0.55
2:Cw:84:PRO:HG3	2:Cw:108:TRP:HH2	1.72	0.55
2:Cx:63:THR:HG22	3:Do:188:LEU:HD21	1.87	0.55
2:Cx:225:PRO:HG2	3:EA:141:CYS:HA	1.89	0.55
3:D0:74:PHE:O	3:D0:184:GLN:HA	2.07	0.55
3:D3:109:ILE:HB	3:D3:205:LEU:HB2	1.88	0.55
3:D4:53:PHE:CE2	3:D4:205:LEU:HD13	2.41	0.55
3:D4:56:ILE:HG13	3:D4:74:PHE:HE1	1.72	0.55
3:D5:74:PHE:O	3:D5:184:GLN:HA	2.07	0.55
3:D8:121:LEU:HD22	3:D8:186:TYR:HB2	1.89	0.55
3:D9:121:LEU:HD22	3:D9:186:TYR:HB2	1.89	0.55
3:DA:99:GLN:HB2	3:DA:217:ARG:HG3	1.87	0.55
3:DB:121:LEU:HD22	3:DB:186:TYR:HB2	1.89	0.55
3:DC:86:HIS:ND1	3:DC:87:GLY:N	2.54	0.55
3:DD:74:PHE:O	3:DD:184:GLN:HA	2.07	0.55
3:DF:122:VAL:O	3:DF:143:HIS:HB2	2.05	0.55
3:DG:99:GLN:HB2	3:DG:217:ARG:HG3	1.87	0.55
3:DI:74:PHE:O	3:DI:184:GLN:HA	2.07	0.55
3:DM:56:ILE:HG13	3:DM:74:PHE:HE1	1.72	0.55
3:DO:74:PHE:O	3:DO:184:GLN:HA	2.07	0.55
3:DP:74:PHE:O	3:DP:184:GLN:HA	2.07	0.55
3:DQ:86:HIS:ND1	3:DQ:87:GLY:N	2.54	0.55
3:DR:86:HIS:ND1	3:DR:87:GLY:N	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:74:PHE:O	3:DT:184:GLN:HA	2.07	0.55
3:DY:42:ASN:HD22	3:DY:44:ILE:HG22	1.65	0.55
3:Db:121:LEU:HD22	3:Db:186:TYR:HB2	1.89	0.55
3:Dc:53:PHE:CE2	3:Dc:205:LEU:HD13	2.41	0.55
3:Dc:121:LEU:HD22	3:Dc:186:TYR:HB2	1.89	0.55
3:Df:122:VAL:O	3:Df:143:HIS:HB2	2.05	0.55
3:Di:53:PHE:CE2	3:Di:205:LEU:HD13	2.41	0.55
3:EA:61:TYR:HB3	3:EA:205:LEU:HD23	1.87	0.55
3:EA:121:LEU:HD22	3:EA:186:TYR:HB2	1.89	0.55
4:FF:22:VAL:HB	4:FJ:25:PHE:CE1	2.42	0.55
4:FK:25:PHE:CE1	4:FL:22:VAL:HB	2.42	0.55
1:A2:176:ALA:HB1	3:DZ:174:ALA:O	2.07	0.55
1:A3:176:ALA:HB1	3:D5:174:ALA:O	2.07	0.55
1:A3:244:ASN:OD1	3:D4:172:ALA:HB1	2.06	0.55
1:A8:80:SER:HB3	1:A8:216:ALA:HA	1.88	0.55
1:AB:165:ARG:HB2	3:DB:33:PRO:O	2.07	0.55
1:AC:88:PHE:CE1	1:AC:205:GLY:C	2.85	0.55
1:AG:176:ALA:HB1	3:DH:174:ALA:O	2.07	0.55
1:AH:49:THR:HG22	1:AH:50:GLY:N	2.21	0.55
1:AJ:19:LEU:HD12	3:DJ:160:TYR:HB3	1.88	0.55
1:AJ:49:THR:HG22	1:AJ:50:GLY:N	2.21	0.55
1:AL:80:SER:HB3	1:AL:216:ALA:HA	1.88	0.55
1:AN:19:LEU:HD12	3:DN:160:TYR:HB3	1.89	0.55
1:AO:19:LEU:HD12	3:DO:160:TYR:HB3	1.89	0.55
1:AP:244:ASN:OD1	3:DP:172:ALA:HB1	2.06	0.55
1:AS:165:ARG:HB2	3:DT:33:PRO:O	2.07	0.55
1:AV:88:PHE:CE1	1:AV:205:GLY:C	2.85	0.55
1:AW:88:PHE:CE1	1:AW:205:GLY:C	2.85	0.55
1:AX:165:ARG:HB2	3:DY:33:PRO:O	2.06	0.55
1:AX:239:PHE:HD2	3:DY:226:GLN:NE2	2.05	0.55
1:AY:165:ARG:HB2	3:DZ:33:PRO:O	2.07	0.55
1:Ab:165:ARG:HB2	3:Dd:33:PRO:O	2.06	0.55
1:Ae:88:PHE:HE1	1:Ae:205:GLY:C	2.14	0.55
1:Ah:88:PHE:HE1	1:Ah:205:GLY:C	2.14	0.55
1:Ah:103:TRP:HZ2	1:Ai:208:TYR:CE2	2.23	0.55
1:Aj:176:ALA:HB1	3:Dm:174:ALA:O	2.07	0.55
1:Ak:176:ALA:HB1	3:Dn:174:ALA:O	2.07	0.55
1:BA:88:PHE:CE1	1:BA:205:GLY:C	2.85	0.55
1:BC:103:TRP:HZ2	1:BD:208:TYR:CE2	2.23	0.55
1:BH:88:PHE:CE1	1:BH:205:GLY:C	2.85	0.55
2:C0:36:TYR:HE2	2:C0:130:PRO:HG3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:27:GLN:CG	2:C1:28:GLY:N	2.70	0.55
2:C9:84:PRO:HD3	2:C9:108:TRP:HZ2	1.71	0.55
2:CE:27:GLN:CG	2:CE:28:GLY:N	2.70	0.55
2:CE:84:PRO:HG3	2:CE:108:TRP:HH2	1.72	0.55
2:CI:36:TYR:HE2	2:CI:130:PRO:HG3	1.71	0.55
2:CL:119:ALA:O	2:CL:205:PRO:HD3	2.06	0.55
2:CM:36:TYR:CE2	2:CM:130:PRO:HG2	2.42	0.55
2:CN:84:PRO:HG3	2:CN:108:TRP:HH2	1.72	0.55
2:CO:75:HIS:HE2	3:DO:59:LYS:HB3	1.71	0.55
2:CO:84:PRO:HD3	2:CO:108:TRP:HZ2	1.71	0.55
2:CO:209:VAL:N	2:CO:210:PRO:CD	2.68	0.55
2:CR:36:TYR:CE2	2:CR:130:PRO:HG2	2.42	0.55
2:CR:63:THR:HG22	3:EE:188:LEU:HD21	1.88	0.55
2:CS:36:TYR:CE2	2:CS:130:PRO:HG2	2.42	0.55
2:CU:36:TYR:CE2	2:CU:130:PRO:HG2	2.42	0.55
2:CU:202:LEU:HD11	2:CU:209:VAL:HG21	1.88	0.55
2:CW:36:TYR:CE2	2:CW:130:PRO:HG2	2.42	0.55
2:CW:202:LEU:HD11	2:CW:209:VAL:HG21	1.88	0.55
2:CX:75:HIS:HE2	3:DX:59:LYS:HB3	1.71	0.55
2:CX:225:PRO:HG2	3:DY:141:CYS:HA	1.89	0.55
2:Ca:36:TYR:HE2	2:Ca:130:PRO:HG3	1.71	0.55
2:Ca:119:ALA:O	2:Ca:205:PRO:HD3	2.06	0.55
2:Cb:115:ASN:CA	3:DT:119:LYS:HD2	2.31	0.55
2:Cc:36:TYR:CE2	2:Cc:130:PRO:HG2	2.42	0.55
2:Cc:75:HIS:HE2	3:Dc:59:LYS:HB3	1.71	0.55
2:Cd:27:GLN:CG	2:Cd:28:GLY:N	2.70	0.55
2:Cd:60:ARG:O	2:Cd:216:ALA:HB1	2.07	0.55
2:Cd:84:PRO:HG3	2:Cd:108:TRP:HH2	1.72	0.55
2:Ch:36:TYR:CE2	2:Ch:130:PRO:HG2	2.42	0.55
2:Ch:63:THR:HG22	3:DN:188:LEU:HD21	1.87	0.55
2:Ch:84:PRO:HD3	2:Ch:108:TRP:HZ2	1.71	0.55
2:Ci:84:PRO:HG3	2:CI:108:TRP:HH2	1.72	0.55
2:Cj:218:ILE:O	2:Cj:219:ASP:HB2	2.06	0.55
2:Cn:63:THR:HG22	3:De:188:LEU:HD21	1.87	0.55
2:Cq:223:ASN:H	2:Cq:223:ASN:ND2	2.01	0.55
2:Cs:84:PRO:HD3	2:Cs:108:TRP:HZ2	1.71	0.55
2:Cw:36:TYR:CE2	2:Cw:130:PRO:HG2	2.42	0.55
2:Cw:69:TRP:CH2	2:Cw:124:LEU:HG	2.42	0.55
3:D2:56:ILE:HG13	3:D2:74:PHE:HE1	1.72	0.55
3:D4:74:PHE:O	3:D4:184:GLN:HA	2.07	0.55
3:D7:122:VAL:O	3:D7:143:HIS:HB2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:121:LEU:HD22	3:DA:186:TYR:HB2	1.89	0.55
3:DA:179:VAL:HG12	3:DA:181:GLY:H	1.71	0.55
3:DE:74:PHE:O	3:DE:184:GLN:HA	2.07	0.55
3:DE:86:HIS:ND1	3:DE:87:GLY:N	2.54	0.55
3:DF:99:GLN:HB2	3:DF:217:ARG:HG3	1.87	0.55
3:DK:109:ILE:HB	3:DK:205:LEU:HB2	1.88	0.55
3:DK:121:LEU:HD22	3:DK:186:TYR:HB2	1.89	0.55
3:DP:56:ILE:HG13	3:DP:74:PHE:HE1	1.72	0.55
3:DP:109:ILE:HB	3:DP:205:LEU:HB2	1.88	0.55
3:DQ:56:ILE:HG13	3:DQ:74:PHE:HE1	1.72	0.55
3:DS:74:PHE:O	3:DS:184:GLN:HA	2.07	0.55
3:DS:99:GLN:HB2	3:DS:217:ARG:HG3	1.87	0.55
3:DU:121:LEU:HD22	3:DU:186:TYR:HB2	1.89	0.55
3:DV:99:GLN:HB2	3:DV:217:ARG:HG3	1.87	0.55
3:DV:121:LEU:HD22	3:DV:186:TYR:HB2	1.89	0.55
3:Dc:74:PHE:O	3:Dc:184:GLN:HA	2.07	0.55
3:Dd:56:ILE:HG13	3:Dd:74:PHE:HE1	1.72	0.55
3:Df:121:LEU:HD22	3:Df:186:TYR:HB2	1.89	0.55
3:Dh:121:LEU:HD22	3:Dh:186:TYR:HB2	1.89	0.55
3:Dk:53:PHE:CE2	3:Dk:205:LEU:HD13	2.41	0.55
3:Dl:121:LEU:HD22	3:Dl:186:TYR:HB2	1.89	0.55
3:Dm:121:LEU:HD22	3:Dm:186:TYR:HB2	1.89	0.55
3:Dm:179:VAL:HG12	3:Dm:181:GLY:H	1.71	0.55
3:Dq:56:ILE:HG13	3:Dq:74:PHE:HE1	1.72	0.55
3:Ds:122:VAL:O	3:Ds:143:HIS:HB2	2.06	0.55
3:EB:74:PHE:O	3:EB:184:GLN:HA	2.07	0.55
3:EC:74:PHE:O	3:EC:184:GLN:HA	2.07	0.55
4:F6:25:PHE:CE1	4:F7:22:VAL:HB	2.42	0.55
4:FC:25:PHE:CE1	4:FD:22:VAL:HB	2.42	0.55
4:FD:28:GLN:O	4:FD:29:GLN:HG3	2.07	0.55
4:FG:28:GLN:O	4:FG:29:GLN:HG3	2.07	0.55
4:FJ:28:GLN:O	4:FJ:29:GLN:HG3	2.07	0.55
4:FK:28:GLN:O	4:FK:29:GLN:HG3	2.07	0.55
4:FV:28:GLN:O	4:FV:29:GLN:HG3	2.07	0.55
4:FW:25:PHE:CE1	4:FX:22:VAL:HB	2.42	0.55
4:FY:28:GLN:O	4:FY:29:GLN:HG3	2.07	0.55
4:Fo:25:PHE:CE1	4:Fp:22:VAL:HB	2.42	0.55
1:AA:49:THR:HG22	1:AA:50:GLY:N	2.21	0.55
1:AB:19:LEU:HD12	3:DB:160:TYR:HB3	1.89	0.55
1:AC:19:LEU:HD12	3:DC:160:TYR:HB3	1.89	0.55
1:AC:30:VAL:CG1	1:AC:218:MET:HE3	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:88:PHE:CE1	1:AE:205:GLY:C	2.84	0.55
1:AF:239:PHE:HD2	3:DF:226:GLN:NE2	2.05	0.55
1:AJ:239:PHE:HD2	3:DJ:226:GLN:NE2	2.05	0.55
1:AK:80:SER:HB3	1:AK:216:ALA:HA	1.88	0.55
1:AK:239:PHE:HD2	3:DK:226:GLN:NE2	2.05	0.55
1:AL:88:PHE:HE1	1:AL:205:GLY:C	2.14	0.55
1:AL:176:ALA:HB1	3:DM:174:ALA:O	2.07	0.55
1:AM:165:ARG:HB2	3:DM:33:PRO:O	2.06	0.55
1:AO:239:PHE:HD2	3:DO:226:GLN:NE2	2.05	0.55
1:AU:88:PHE:CE1	1:AU:205:GLY:C	2.85	0.55
1:AW:176:ALA:HB1	3:DY:174:ALA:O	2.07	0.55
1:AX:80:SER:HB3	1:AX:216:ALA:HA	1.88	0.55
1:Aa:239:PHE:HD2	3:Dc:226:GLN:NE2	2.05	0.55
1:Ab:88:PHE:HE1	1:Ab:205:GLY:C	2.14	0.55
1:Ac:80:SER:HB3	1:Ac:216:ALA:HA	1.88	0.55
1:Ac:244:ASN:OD1	3:De:172:ALA:HB1	2.06	0.55
1:Af:176:ALA:HB1	3:Di:174:ALA:O	2.07	0.55
1:Ag:181:LYS:HA	2:Ci:137:GLU:HG3	1.89	0.55
1:An:244:ASN:OD1	3:Db:172:ALA:HB1	2.06	0.55
1:Ao:19:LEU:HD12	3:DS:160:TYR:HB3	1.89	0.55
1:BB:244:ASN:OD1	3:Dq:172:ALA:HB1	2.06	0.55
1:BC:88:PHE:CE1	1:BC:205:GLY:C	2.85	0.55
1:BE:239:PHE:HD2	3:EA:226:GLN:NE2	2.05	0.55
1:BF:30:VAL:CG1	1:BF:218:MET:HE3	2.33	0.55
1:BF:244:ASN:OD1	3:EB:172:ALA:HB1	2.06	0.55
1:BI:88:PHE:CE1	1:BI:205:GLY:C	2.85	0.55
2:C4:69:TRP:CH2	2:C4:124:LEU:HG	2.42	0.55
2:C5:36:TYR:HE2	2:C5:130:PRO:HG3	1.71	0.55
2:C8:84:PRO:HD3	2:C8:108:TRP:HZ2	1.71	0.55
2:C8:119:ALA:O	2:C8:205:PRO:HD3	2.06	0.55
2:CB:84:PRO:HG3	2:CB:108:TRP:HH2	1.72	0.55
2:CE:202:LEU:HD11	2:CE:209:VAL:HG21	1.88	0.55
2:CG:60:ARG:O	2:CG:216:ALA:HB1	2.07	0.55
2:CI:75:HIS:HE2	3:DI:59:LYS:HB3	1.71	0.55
2:CM:218:ILE:O	2:CM:219:ASP:HB2	2.06	0.55
2:CM:225:PRO:HG2	3:DN:141:CYS:HA	1.89	0.55
2:CN:36:TYR:CE2	2:CN:130:PRO:HG2	2.42	0.55
2:CO:36:TYR:HE2	2:CO:130:PRO:HG3	1.71	0.55
2:CO:63:THR:HG22	3:DP:188:LEU:HD21	1.87	0.55
2:CS:84:PRO:HD3	2:CS:108:TRP:HZ2	1.71	0.55
2:CT:27:GLN:CG	2:CT:28:GLY:N	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:60:ARG:O	2:CT:216:ALA:HB1	2.07	0.55
2:CU:75:HIS:HE2	3:DU:59:LYS:HB3	1.71	0.55
2:CV:69:TRP:CH2	2:CV:124:LEU:HG	2.42	0.55
2:CX:73:GLN:HA	2:CX:73:GLN:NE2	2.17	0.55
2:CZ:36:TYR:CE2	2:CZ:130:PRO:HG2	2.42	0.55
2:Cc:84:PRO:HG3	2:Cc:108:TRP:HH2	1.72	0.55
2:Ce:60:ARG:O	2:Ce:216:ALA:HB1	2.07	0.55
2:Ce:63:THR:HG22	3:DC:188:LEU:HD21	1.87	0.55
2:Cg:73:GLN:HA	2:Cg:73:GLN:NE2	2.17	0.55
2:Cj:84:PRO:HD3	2:Cj:108:TRP:HZ2	1.70	0.55
2:Co:75:HIS:HE2	3:Do:59:LYS:HB3	1.71	0.55
2:Cp:27:GLN:CG	2:Cp:28:GLY:N	2.70	0.55
2:Cp:225:PRO:HG2	3:Dq:141:CYS:HA	1.89	0.55
2:Cq:218:ILE:O	2:Cq:219:ASP:HB2	2.06	0.55
2:Cr:75:HIS:HE2	3:Dr:59:LYS:HB3	1.71	0.55
2:Cv:75:HIS:HE2	3:EB:59:LYS:HB3	1.71	0.55
2:Cw:27:GLN:CG	2:Cw:28:GLY:N	2.70	0.55
3:D0:61:TYR:HB3	3:D0:205:LEU:HD23	1.87	0.55
3:D3:61:TYR:HB3	3:D3:205:LEU:HD23	1.87	0.55
3:D5:53:PHE:CE2	3:D5:205:LEU:HD13	2.41	0.55
3:D6:109:ILE:HB	3:D6:205:LEU:HB2	1.87	0.55
3:DA:109:ILE:HB	3:DA:205:LEU:HB2	1.88	0.55
3:DD:121:LEU:HD22	3:DD:186:TYR:HB2	1.89	0.55
3:DO:99:GLN:HB2	3:DO:217:ARG:HG3	1.87	0.55
3:DO:121:LEU:HD22	3:DO:186:TYR:HB2	1.89	0.55
3:DP:99:GLN:HB2	3:DP:217:ARG:HG3	1.87	0.55
3:DP:121:LEU:HD22	3:DP:186:TYR:HB2	1.89	0.55
3:DQ:74:PHE:O	3:DQ:184:GLN:HA	2.07	0.55
3:DV:109:ILE:HB	3:DV:205:LEU:HB2	1.88	0.55
3:DW:179:VAL:HG12	3:DW:181:GLY:H	1.71	0.55
3:DX:121:LEU:HD22	3:DX:186:TYR:HB2	1.89	0.55
3:DZ:53:PHE:CE2	3:DZ:205:LEU:HD13	2.41	0.55
3:Db:74:PHE:O	3:Db:184:GLN:HA	2.07	0.55
3:De:121:LEU:HD22	3:De:186:TYR:HB2	1.89	0.55
3:Dg:56:ILE:HG13	3:Dg:74:PHE:HE1	1.72	0.55
3:Dg:121:LEU:HD22	3:Dg:186:TYR:HB2	1.89	0.55
3:Dh:74:PHE:O	3:Dh:184:GLN:HA	2.07	0.55
3:Di:56:ILE:HG13	3:Di:74:PHE:HE1	1.72	0.55
3:Di:74:PHE:O	3:Di:184:GLN:HA	2.07	0.55
3:Dl:74:PHE:O	3:Dl:184:GLN:HA	2.07	0.55
3:Dn:99:GLN:HB2	3:Dn:217:ARG:HG3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dq:74:PHE:O	3:Dq:184:GLN:HA	2.07	0.55
3:EA:179:VAL:HG12	3:EA:181:GLY:H	1.71	0.55
3:EB:121:LEU:HD22	3:EB:186:TYR:HB2	1.89	0.55
3:ED:56:ILE:HG13	3:ED:74:PHE:HE1	1.72	0.55
3:ED:121:LEU:HD22	3:ED:186:TYR:HB2	1.89	0.55
4:F0:22:VAL:HB	4:FZ:25:PHE:CE1	2.42	0.55
4:F0:22:VAL:HB	4:FZ:25:PHE:HE1	1.72	0.55
4:F2:25:PHE:HE1	4:F3:22:VAL:HB	1.72	0.55
4:F3:25:PHE:HE1	4:FZ:22:VAL:HB	1.72	0.55
4:F3:28:GLN:O	4:F3:29:GLN:HG3	2.07	0.55
4:F6:25:PHE:HE1	4:F7:22:VAL:HB	1.72	0.55
4:F9:22:VAL:HB	4:Fd:25:PHE:HE1	1.72	0.55
4:FA:22:VAL:HB	4:FE:25:PHE:CE1	2.42	0.55
4:FH:28:GLN:O	4:FH:29:GLN:HG3	2.07	0.55
4:FN:28:GLN:O	4:FN:29:GLN:HG3	2.07	0.55
4:Fa:25:PHE:CE1	4:Fb:22:VAL:HB	2.42	0.55
4:Fb:25:PHE:HE1	4:Fc:22:VAL:HB	1.72	0.55
4:Fb:28:GLN:O	4:Fb:29:GLN:HG3	2.07	0.55
4:Fi:28:GLN:O	4:Fi:29:GLN:HG3	2.07	0.55
4:Fk:25:PHE:HE1	4:Fl:22:VAL:HB	1.72	0.55
4:Fl:28:GLN:O	4:Fl:29:GLN:HG3	2.07	0.55
4:Fm:28:GLN:O	4:Fm:29:GLN:HG3	2.07	0.55
4:Fq:28:GLN:O	4:Fq:29:GLN:HG3	2.07	0.55
1:A0:165:ARG:HB2	3:D1:33:PRO:O	2.06	0.55
1:A1:19:LEU:HD12	3:D2:160:TYR:HB3	1.89	0.55
1:A1:176:ALA:HB1	3:D3:174:ALA:O	2.07	0.55
1:A4:176:ALA:HB1	3:D6:174:ALA:O	2.07	0.55
1:A5:88:PHE:CE1	1:A5:205:GLY:C	2.85	0.55
1:A9:80:SER:HB3	1:A9:216:ALA:HA	1.88	0.55
1:A9:165:ARG:HB2	3:Da:33:PRO:O	2.07	0.55
1:AA:244:ASN:OD1	3:DA:172:ALA:HB1	2.06	0.55
1:AB:88:PHE:HE1	1:AB:205:GLY:C	2.14	0.55
1:AC:49:THR:HG22	1:AC:50:GLY:N	2.21	0.55
1:AC:244:ASN:OD1	3:DC:172:ALA:HB1	2.06	0.55
1:AF:157:SER:CB	3:DF:24:PRO:HA	2.35	0.55
1:AF:165:ARG:HB2	3:DF:33:PRO:O	2.06	0.55
1:AH:157:SER:CB	3:DH:24:PRO:HA	2.36	0.55
1:AH:239:PHE:HD2	3:DH:226:GLN:NE2	2.05	0.55
1:AI:239:PHE:HD2	3:DI:226:GLN:NE2	2.05	0.55
1:AN:239:PHE:HD2	3:DN:226:GLN:NE2	2.05	0.55
1:AS:88:PHE:CE1	1:AS:205:GLY:C	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:176:ALA:HB1	3:DV:174:ALA:O	2.07	0.55
1:AW:239:PHE:HD2	3:DX:226:GLN:NE2	2.05	0.55
1:AZ:88:PHE:CE1	1:AZ:205:GLY:C	2.84	0.55
1:Aa:176:ALA:HB1	3:Dd:174:ALA:O	2.07	0.55
1:Ab:239:PHE:HD2	3:Dd:226:GLN:NE2	2.05	0.55
1:Ad:239:PHE:HD2	3:Df:226:GLN:NE2	2.05	0.55
1:Ah:239:PHE:HD2	3:Dj:226:GLN:NE2	2.05	0.55
1:Aj:88:PHE:HE1	1:Aj:205:GLY:C	2.14	0.55
1:Ak:88:PHE:CE1	1:Ak:205:GLY:C	2.85	0.55
1:BA:165:ARG:HB2	3:Dp:33:PRO:O	2.07	0.55
1:BB:239:PHE:HD2	3:Dq:226:GLN:NE2	2.05	0.55
1:BC:157:SER:CB	3:Dr:24:PRO:HA	2.36	0.55
1:BD:19:LEU:HD12	3:Ds:160:TYR:HB3	1.89	0.55
1:BE:30:VAL:CG1	1:BE:218:MET:HE3	2.33	0.55
1:BG:80:SER:HB3	1:BG:216:ALA:HA	1.88	0.55
1:BH:80:SER:HB3	1:BH:216:ALA:HA	1.88	0.55
2:C1:225:PRO:HG2	3:D2:141:CYS:HA	1.89	0.55
2:C2:36:TYR:CE2	2:C2:130:PRO:HG2	2.42	0.55
2:C2:60:ARG:O	2:C2:216:ALA:HB1	2.07	0.55
2:C3:36:TYR:CE2	2:C3:130:PRO:HG2	2.42	0.55
2:C7:84:PRO:HG3	2:C7:108:TRP:HH2	1.72	0.55
2:C8:225:PRO:HG2	3:D4:141:CYS:HA	1.89	0.55
2:CB:27:GLN:CG	2:CB:28:GLY:N	2.70	0.55
2:CB:225:PRO:HG2	3:DC:141:CYS:HA	1.89	0.55
2:CD:69:TRP:CH2	2:CD:124:LEU:HG	2.42	0.55
2:CF:84:PRO:HG3	2:CF:108:TRP:HH2	1.72	0.55
2:CH:36:TYR:CE2	2:CH:130:PRO:HG2	2.42	0.55
2:CK:27:GLN:CG	2:CK:28:GLY:N	2.70	0.55
2:CK:218:ILE:O	2:CK:219:ASP:HB2	2.06	0.55
2:CM:60:ARG:O	2:CM:216:ALA:HB1	2.07	0.55
2:CO:202:LEU:HD11	2:CO:209:VAL:HG21	1.88	0.55
2:CP:119:ALA:O	2:CP:205:PRO:HD3	2.06	0.55
2:CR:27:GLN:CG	2:CR:28:GLY:N	2.70	0.55
2:CS:27:GLN:CG	2:CS:28:GLY:N	2.70	0.55
2:CU:223:ASN:H	2:CU:223:ASN:ND2	2.01	0.55
2:CV:60:ARG:O	2:CV:216:ALA:HB1	2.07	0.55
2:CV:84:PRO:HG3	2:CV:108:TRP:HH2	1.72	0.55
2:CW:69:TRP:CH2	2:CW:124:LEU:HG	2.42	0.55
2:CW:84:PRO:HG3	2:CW:108:TRP:HH2	1.72	0.55
2:CX:36:TYR:CE2	2:CX:130:PRO:HG2	2.42	0.55
2:CZ:69:TRP:CH2	2:CZ:124:LEU:HG	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cd:119:ALA:O	2:Cd:205:PRO:HD3	2.06	0.55
2:Cf:60:ARG:O	2:Cf:216:ALA:HB1	2.07	0.55
2:Ch:36:TYR:HE2	2:Ch:130:PRO:HG3	1.71	0.55
2:Ck:27:GLN:CG	2:Ck:28:GLY:N	2.70	0.55
2:Cl:36:TYR:HE2	2:Cl:130:PRO:HG3	1.71	0.55
2:Cm:60:ARG:O	2:Cm:216:ALA:HB1	2.07	0.55
2:Cn:36:TYR:CE2	2:Cn:130:PRO:HG2	2.42	0.55
2:Cp:36:TYR:CE2	2:Cp:130:PRO:HG2	2.42	0.55
2:Cp:69:TRP:CH2	2:Cp:124:LEU:HG	2.42	0.55
2:Cq:75:HIS:HE2	3:Dq:59:LYS:HB3	1.71	0.55
2:Cu:36:TYR:CE2	2:Cu:130:PRO:HG2	2.42	0.55
3:D0:122:VAL:O	3:D0:143:HIS:HB2	2.05	0.55
3:D2:86:HIS:ND1	3:D2:87:GLY:N	2.54	0.55
3:DB:99:GLN:HB2	3:DB:217:ARG:HG3	1.87	0.55
3:DD:109:ILE:HB	3:DD:205:LEU:HB2	1.88	0.55
3:DF:74:PHE:O	3:DF:184:GLN:HA	2.07	0.55
3:DN:109:ILE:HB	3:DN:205:LEU:HB2	1.88	0.55
3:DS:121:LEU:HD22	3:DS:186:TYR:HB2	1.89	0.55
3:DT:109:ILE:HB	3:DT:205:LEU:HB2	1.88	0.55
3:Di:179:VAL:HG12	3:Di:181:GLY:H	1.71	0.55
3:Dk:109:ILE:HB	3:Dk:205:LEU:HB2	1.88	0.55
3:Do:121:LEU:HD22	3:Do:186:TYR:HB2	1.89	0.55
4:F5:28:GLN:O	4:F5:29:GLN:HG3	2.07	0.55
4:FA:28:GLN:O	4:FA:29:GLN:HG3	2.07	0.55
4:FB:25:PHE:HE1	4:FC:22:VAL:HB	1.72	0.55
4:FL:28:GLN:O	4:FL:29:GLN:HG3	2.07	0.55
4:FR:25:PHE:HE1	4:FS:22:VAL:HB	1.72	0.55
4:FT:28:GLN:O	4:FT:29:GLN:HG3	2.07	0.55
4:Ff:28:GLN:O	4:Ff:29:GLN:HG3	2.07	0.55
4:Fj:22:VAL:HB	4:Fj:25:PHE:CE1	2.42	0.55
4:Fp:25:PHE:CE1	4:Fq:22:VAL:HB	2.42	0.55
4:Fq:25:PHE:CE1	4:Fr:22:VAL:HB	2.42	0.55
4:Fv:28:GLN:O	4:Fv:29:GLN:HG3	2.07	0.55
4:Fw:28:GLN:O	4:Fw:29:GLN:HG3	2.07	0.55
1:A0:157:SER:CB	3:D1:24:PRO:HA	2.35	0.55
1:A4:181:LYS:HA	2:C5:137:GLU:HG3	1.90	0.55
1:A5:165:ARG:HB2	3:D6:33:PRO:O	2.06	0.55
1:A9:19:LEU:HD12	3:Da:160:TYR:HB3	1.89	0.55
1:AE:19:LEU:HD12	3:DE:160:TYR:HB3	1.89	0.55
1:AE:239:PHE:HD2	3:DE:226:GLN:NE2	2.05	0.55
1:AG:165:ARG:HB2	3:DG:33:PRO:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:181:LYS:HA	2:CG:137:GLU:HG3	1.89	0.55
1:AJ:176:ALA:HB1	3:DF:174:ALA:O	2.07	0.55
1:AK:103:TRP:HB2	1:AK:198:THR:HG22	1.89	0.55
1:AL:157:SER:CB	3:DL:24:PRO:HA	2.36	0.55
1:AO:88:PHE:HE1	1:AO:205:GLY:C	2.14	0.55
1:AS:176:ALA:HB1	3:DP:174:ALA:O	2.07	0.55
1:AT:157:SER:CB	3:DU:24:PRO:HA	2.36	0.55
1:AU:19:LEU:HD12	3:DV:160:TYR:HB3	1.88	0.55
1:AV:244:ASN:OD1	3:DW:172:ALA:HB1	2.06	0.55
1:AZ:165:ARG:HB2	3:D0:33:PRO:O	2.06	0.55
1:Aa:244:ASN:OD1	3:Dc:172:ALA:HB1	2.06	0.55
1:Af:80:SER:HB3	1:Af:216:ALA:HA	1.88	0.55
1:Ag:80:SER:HB3	1:Ag:216:ALA:HA	1.88	0.55
1:Ag:239:PHE:HD2	3:Di:226:GLN:NE2	2.05	0.55
1:An:49:THR:HG22	1:An:50:GLY:N	2.21	0.55
1:An:80:SER:HB3	1:An:216:ALA:HA	1.88	0.55
1:Ao:88:PHE:CE1	1:Ao:205:GLY:C	2.85	0.55
1:BB:181:LYS:HA	2:Cq:137:GLU:HG3	1.89	0.55
1:BD:239:PHE:HD2	3:Ds:226:GLN:NE2	2.05	0.55
1:BE:80:SER:HB3	1:BE:216:ALA:HA	1.88	0.55
1:BH:239:PHE:HD2	3:ED:226:GLN:NE2	2.05	0.55
1:BI:244:ASN:OD1	3:EE:172:ALA:HB1	2.06	0.55
2:C8:27:GLN:CG	2:C8:28:GLY:N	2.70	0.55
2:C9:36:TYR:HE2	2:C9:130:PRO:HG3	1.71	0.55
2:C9:36:TYR:CE2	2:C9:130:PRO:HG2	2.42	0.55
2:C9:60:ARG:O	2:C9:216:ALA:HB1	2.07	0.55
2:C9:75:HIS:HE2	3:D9:59:LYS:HB3	1.71	0.55
2:C9:202:LEU:HD11	2:C9:209:VAL:HG21	1.88	0.55
2:CB:36:TYR:CE2	2:CB:130:PRO:HG2	2.42	0.55
2:CB:60:ARG:O	2:CB:216:ALA:HB1	2.07	0.55
2:CF:69:TRP:CH2	2:CF:124:LEU:HG	2.42	0.55
2:CF:119:ALA:O	2:CF:205:PRO:HD3	2.06	0.55
2:CG:84:PRO:HD3	2:CG:108:TRP:HZ2	1.71	0.55
2:CG:225:PRO:HG2	3:DH:141:CYS:HA	1.89	0.55
2:CJ:27:GLN:CG	2:CJ:28:GLY:N	2.70	0.55
2:CL:84:PRO:HG3	2:CL:108:TRP:HH2	1.72	0.55
2:CL:209:VAL:N	2:CL:210:PRO:CD	2.68	0.55
2:CM:69:TRP:CH2	2:CM:124:LEU:HG	2.42	0.55
2:CM:119:ALA:O	2:CM:205:PRO:HD3	2.06	0.55
2:CN:60:ARG:O	2:CN:216:ALA:HB1	2.07	0.55
2:CP:218:ILE:O	2:CP:219:ASP:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CQ:75:HIS:HE2	3:DQ:59:LYS:HB3	1.71	0.55
2:CR:119:ALA:O	2:CR:205:PRO:HD3	2.06	0.55
2:CU:27:GLN:CG	2:CU:28:GLY:N	2.70	0.55
2:CW:60:ARG:O	2:CW:216:ALA:HB1	2.07	0.55
2:CX:60:ARG:O	2:CX:216:ALA:HB1	2.07	0.55
2:CY:218:ILE:O	2:CY:219:ASP:HB2	2.06	0.55
2:CY:225:PRO:HG2	3:DU:141:CYS:HA	1.89	0.55
2:Ca:36:TYR:CE2	2:Ca:130:PRO:HG2	2.42	0.55
2:Cb:36:TYR:HE2	2:Cb:130:PRO:HG3	1.71	0.55
2:Cc:60:ARG:O	2:Cc:216:ALA:HB1	2.07	0.55
2:Cc:225:PRO:HG2	3:Dd:141:CYS:HA	1.89	0.55
2:Cf:27:GLN:CG	2:Cf:28:GLY:N	2.70	0.55
2:Cf:36:TYR:CE2	2:Cf:130:PRO:HG2	2.42	0.55
2:Cf:75:HIS:HE2	3:Df:59:LYS:HB3	1.71	0.55
2:Ci:69:TRP:CH2	2:Ci:124:LEU:HG	2.42	0.55
2:Ci:218:ILE:O	2:Ci:219:ASP:HB2	2.06	0.55
2:Ck:36:TYR:CE2	2:Ck:130:PRO:HG2	2.42	0.55
2:Ck:75:HIS:HE2	3:Dk:59:LYS:HB3	1.71	0.55
2:Cm:218:ILE:O	2:Cm:219:ASP:HB2	2.06	0.55
2:Co:27:GLN:CG	2:Co:28:GLY:N	2.70	0.55
2:Cq:60:ARG:O	2:Cq:216:ALA:HB1	2.07	0.55
2:Cr:36:TYR:HE2	2:Cr:130:PRO:HG3	1.71	0.55
2:Cr:225:PRO:HG2	3:Ds:141:CYS:HA	1.89	0.55
2:Cs:27:GLN:CG	2:Cs:28:GLY:N	2.70	0.55
2:Ct:225:PRO:HG2	3:EB:141:CYS:HA	1.89	0.55
2:Cx:69:TRP:CH2	2:Cx:124:LEU:HG	2.42	0.55
3:D1:109:ILE:HB	3:D1:205:LEU:HB2	1.88	0.55
3:D2:109:ILE:HB	3:D2:205:LEU:HB2	1.88	0.55
3:D3:53:PHE:CE2	3:D3:205:LEU:HD13	2.41	0.55
3:D4:109:ILE:HB	3:D4:205:LEU:HB2	1.88	0.55
3:DI:179:VAL:HG12	3:DI:181:GLY:H	1.71	0.55
3:DL:121:LEU:HD22	3:DL:186:TYR:HB2	1.89	0.55
3:Df:86:HIS:ND1	3:Df:87:GLY:N	2.54	0.55
3:Dh:107:ASN:HA	3:Dh:154:PHE:O	2.07	0.55
3:Dh:122:VAL:O	3:Dh:143:HIS:HB2	2.06	0.55
3:Dm:74:PHE:O	3:Dm:184:GLN:HA	2.07	0.55
3:Dp:53:PHE:CE2	3:Dp:205:LEU:HD13	2.41	0.55
3:Dq:42:ASN:HD22	3:Dq:44:ILE:HG22	1.65	0.55
3:EA:74:PHE:O	3:EA:184:GLN:HA	2.07	0.55
3:EC:179:VAL:HG12	3:EC:181:GLY:H	1.71	0.55
4:FU:22:VAL:HB	4:FY:25:PHE:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FU:25:PHE:CE1	4:FV:22:VAL:HB	2.42	0.55
4:Fe:22:VAL:HB	4:Fi:25:PHE:CE1	2.42	0.55
4:Fg:25:PHE:HE1	4:Fh:22:VAL:HB	1.72	0.55
4:Fg:28:GLN:O	4:Fg:29:GLN:HG3	2.07	0.55
4:Fh:25:PHE:CE1	4:Fi:22:VAL:HB	2.42	0.55
4:Fj:22:VAL:HB	4:Fh:25:PHE:HE1	1.72	0.55
4:Fl:25:PHE:CE1	4:Fm:22:VAL:HB	2.42	0.55
4:Fr:25:PHE:HE1	4:Fg:22:VAL:HB	1.72	0.55
4:Ft:22:VAL:HB	4:Fx:25:PHE:CE1	2.42	0.55
1:A2:181:LYS:HA	2:C3:137:GLU:HG3	1.89	0.54
1:A5:181:LYS:HA	2:C6:137:GLU:HG3	1.89	0.54
1:A7:88:PHE:CE1	1:A7:205:GLY:C	2.85	0.54
1:A8:103:TRP:HB2	1:A8:198:THR:HG22	1.89	0.54
1:A8:165:ARG:O	3:D9:34:ARG:HG2	2.05	0.54
1:A9:181:LYS:HA	2:Ca:137:GLU:HG3	1.89	0.54
1:AA:157:SER:CB	3:DA:24:PRO:HA	2.36	0.54
1:AA:165:ARG:HB2	3:DA:33:PRO:O	2.06	0.54
1:AI:19:LEU:HD12	3:DI:160:TYR:HB3	1.89	0.54
1:AI:86:ILE:HD12	1:AI:86:ILE:H	1.73	0.54
1:AN:88:PHE:CE1	1:AN:205:GLY:C	2.85	0.54
1:AO:103:TRP:HB2	1:AO:198:THR:HG22	1.89	0.54
1:AO:176:ALA:HB1	3:DK:174:ALA:O	2.07	0.54
1:AP:88:PHE:CE1	1:AP:205:GLY:C	2.85	0.54
1:AP:239:PHE:HD2	3:DP:226:GLN:NE2	2.05	0.54
1:AQ:176:ALA:HB1	3:DR:174:ALA:O	2.07	0.54
1:AS:157:SER:CB	3:DT:24:PRO:HA	2.36	0.54
1:AY:181:LYS:HA	2:CZ:137:GLU:HG3	1.89	0.54
1:Ad:19:LEU:HD12	3:Df:160:TYR:HB3	1.89	0.54
1:Ad:165:ARG:HB2	3:Df:33:PRO:O	2.06	0.54
1:Ae:88:PHE:CE1	1:Ae:205:GLY:C	2.84	0.54
1:Ag:165:ARG:HB2	3:Di:33:PRO:O	2.06	0.54
1:Ah:165:ARG:HB2	3:Dj:33:PRO:O	2.06	0.54
1:Ai:176:ALA:HB1	3:DI:174:ALA:O	2.07	0.54
1:Aj:239:PHE:HD2	3:DI:226:GLN:NE2	2.05	0.54
1:Ak:103:TRP:HB2	1:Ak:198:THR:HG22	1.89	0.54
1:An:239:PHE:HD2	3:Db:226:GLN:NE2	2.05	0.54
1:Ao:176:ALA:HB1	3:DT:174:ALA:O	2.07	0.54
1:BB:165:ARG:HB2	3:Dq:33:PRO:O	2.07	0.54
1:BH:181:LYS:HA	2:Cw:137:GLU:HG3	1.89	0.54
1:BI:165:ARG:HB2	3:EE:33:PRO:O	2.06	0.54
2:C1:36:TYR:CE2	2:C1:130:PRO:HG2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:225:PRO:HG2	3:D3:141:CYS:HA	1.89	0.54
2:C3:60:ARG:O	2:C3:216:ALA:HB1	2.07	0.54
2:C4:36:TYR:CE2	2:C4:130:PRO:HG2	2.42	0.54
2:C5:73:GLN:HA	2:C5:73:GLN:NE2	2.17	0.54
2:C5:84:PRO:HD3	2:C5:108:TRP:HZ2	1.71	0.54
2:C7:27:GLN:CG	2:C7:28:GLY:N	2.70	0.54
2:C7:60:ARG:O	2:C7:216:ALA:HB1	2.07	0.54
2:CB:218:ILE:O	2:CB:219:ASP:HB2	2.06	0.54
2:CC:84:PRO:HG3	2:CC:108:TRP:HH2	1.72	0.54
2:CF:60:ARG:O	2:CF:216:ALA:HB1	2.07	0.54
2:CF:225:PRO:HG2	3:DG:141:CYS:HA	1.89	0.54
2:CK:36:TYR:CE2	2:CK:130:PRO:HG2	2.42	0.54
2:CL:36:TYR:CE2	2:CL:130:PRO:HG2	2.42	0.54
2:CT:84:PRO:HG3	2:CT:108:TRP:HH2	1.72	0.54
2:CU:69:TRP:CH2	2:CU:124:LEU:HG	2.42	0.54
2:CU:225:PRO:HG2	3:DV:141:CYS:HA	1.89	0.54
2:CY:84:PRO:HG3	2:CY:108:TRP:HH2	1.72	0.54
2:Ca:63:THR:HG22	3:DL:188:LEU:HD21	1.88	0.54
2:Cd:69:TRP:CH2	2:Cd:124:LEU:HG	2.42	0.54
2:Ce:36:TYR:CE2	2:Ce:130:PRO:HG2	2.42	0.54
2:Ce:202:LEU:HD11	2:Ce:209:VAL:HG21	1.88	0.54
2:Cg:69:TRP:CH2	2:Cg:124:LEU:HG	2.42	0.54
2:Ci:60:ARG:O	2:Ci:216:ALA:HB1	2.07	0.54
2:Ci:63:THR:HG22	3:Dj:188:LEU:HD21	1.88	0.54
2:Cl:75:HIS:HE2	3:Dl:59:LYS:HB3	1.71	0.54
2:Co:36:TYR:CE2	2:Co:130:PRO:HG2	2.42	0.54
2:Cp:84:PRO:HG3	2:Cp:108:TRP:HH2	1.72	0.54
2:Cp:218:ILE:O	2:Cp:219:ASP:HB2	2.06	0.54
2:Cq:36:TYR:HE2	2:Cq:130:PRO:HG3	1.71	0.54
2:Cq:69:TRP:CH2	2:Cq:124:LEU:HG	2.42	0.54
2:Cq:225:PRO:HG2	3:Dr:141:CYS:HA	1.89	0.54
2:Cs:218:ILE:O	2:Cs:219:ASP:HB2	2.06	0.54
2:Ct:60:ARG:O	2:Ct:216:ALA:HB1	2.07	0.54
2:Cu:27:GLN:CG	2:Cu:28:GLY:N	2.70	0.54
2:Cv:225:PRO:HG2	3:ED:141:CYS:HA	1.89	0.54
2:Cx:36:TYR:HE2	2:Cx:130:PRO:HG3	1.71	0.54
3:D1:107:ASN:HA	3:D1:154:PHE:O	2.08	0.54
3:D2:121:LEU:HD22	3:D2:186:TYR:HB2	1.88	0.54
3:D3:74:PHE:O	3:D3:184:GLN:HA	2.07	0.54
3:D3:101:ARG:HA	3:D3:160:TYR:HE2	1.72	0.54
3:D3:107:ASN:HA	3:D3:154:PHE:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:53:PHE:CE2	3:DC:205:LEU:HD13	2.41	0.54
3:DC:101:ARG:HA	3:DC:160:TYR:HE2	1.73	0.54
3:DG:56:ILE:HG13	3:DG:74:PHE:HE1	1.72	0.54
3:DH:107:ASN:HA	3:DH:154:PHE:O	2.08	0.54
3:DH:109:ILE:HB	3:DH:205:LEU:HB2	1.88	0.54
3:DJ:74:PHE:O	3:DJ:184:GLN:HA	2.07	0.54
3:DJ:121:LEU:HD22	3:DJ:186:TYR:HB2	1.89	0.54
3:DK:99:GLN:HB2	3:DK:217:ARG:HG3	1.87	0.54
3:DY:107:ASN:HA	3:DY:154:PHE:O	2.07	0.54
3:Da:74:PHE:O	3:Da:184:GLN:HA	2.07	0.54
3:Dd:53:PHE:CE2	3:Dd:205:LEU:HD13	2.41	0.54
3:Dg:42:ASN:HD22	3:Dg:44:ILE:HG22	1.65	0.54
3:Dk:74:PHE:O	3:Dk:184:GLN:HA	2.07	0.54
3:Dp:109:ILE:HB	3:Dp:205:LEU:HB2	1.88	0.54
3:Dr:109:ILE:HB	3:Dr:205:LEU:HB2	1.88	0.54
3:ED:109:ILE:HB	3:ED:205:LEU:HB2	1.88	0.54
4:F2:25:PHE:CE1	4:F3:22:VAL:HB	2.42	0.54
4:F4:25:PHE:CE1	4:F5:22:VAL:HB	2.42	0.54
4:F9:25:PHE:CE1	4:Fa:22:VAL:HB	2.42	0.54
4:FF:25:PHE:CE1	4:FG:22:VAL:HB	2.42	0.54
4:FS:25:PHE:CE1	4:FT:22:VAL:HB	2.42	0.54
4:Fe:25:PHE:CE1	4:Ff:22:VAL:HB	2.42	0.54
4:Fk:25:PHE:CE1	4:Fl:22:VAL:HB	2.42	0.54
4:Ft:28:GLN:O	4:Ft:29:GLN:HG3	2.07	0.54
1:A0:115:THR:OG1	1:A0:133:LEU:HB2	2.08	0.54
1:A2:19:LEU:HD12	3:D3:160:TYR:HB3	1.89	0.54
1:A7:244:ASN:OD1	3:D8:172:ALA:HB1	2.06	0.54
1:AE:181:LYS:HA	2:CE:137:GLU:HG3	1.90	0.54
1:AF:176:ALA:HB1	3:DG:174:ALA:O	2.07	0.54
1:AH:86:ILE:HD12	1:AH:86:ILE:H	1.73	0.54
1:AI:165:ARG:HB2	3:DI:33:PRO:O	2.07	0.54
1:AK:181:LYS:HA	2:CK:137:GLU:HG3	1.89	0.54
1:AN:165:ARG:HB2	3:DN:33:PRO:O	2.06	0.54
1:AP:181:LYS:HA	2:CP:137:GLU:HG3	1.89	0.54
1:AQ:88:PHE:CE1	1:AQ:205:GLY:C	2.85	0.54
1:AQ:103:TRP:HB2	1:AQ:198:THR:HG22	1.89	0.54
1:AT:239:PHE:HD2	3:DU:226:GLN:NE2	2.05	0.54
1:AU:221:PRO:CA	3:DV:40:PHE:HE2	2.21	0.54
1:AX:19:LEU:HD12	3:DY:160:TYR:HB3	1.89	0.54
1:AZ:239:PHE:HD2	3:D0:226:GLN:NE2	2.05	0.54
1:Ac:30:VAL:CG1	1:Ac:218:MET:HE3	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Af:165:ARG:HB2	3:Dh:33:PRO:O	2.06	0.54
1:Ag:244:ASN:OD1	3:Di:172:ALA:HB1	2.06	0.54
1:Aj:48:LEU:HD21	1:Aj:103:TRP:CZ3	2.43	0.54
1:Aj:181:LYS:HA	2:Cl:137:GLU:HG3	1.89	0.54
1:Ak:19:LEU:HD12	3:Dm:160:TYR:HB3	1.88	0.54
1:Ak:181:LYS:HA	2:Cm:137:GLU:HG3	1.89	0.54
1:Al:115:THR:OG1	1:Al:133:LEU:HB2	2.08	0.54
1:Al:181:LYS:HA	2:Cn:137:GLU:HG3	1.89	0.54
1:An:165:ARG:HB2	3:Db:33:PRO:O	2.07	0.54
1:Ao:239:PHE:HD2	3:DS:226:GLN:NE2	2.05	0.54
1:BA:221:PRO:CA	3:Dp:40:PHE:HE2	2.21	0.54
1:BA:239:PHE:HD2	3:Dp:226:GLN:NE2	2.05	0.54
1:BD:86:ILE:HD12	1:BD:86:ILE:H	1.73	0.54
1:BD:176:ALA:HB1	3:Do:174:ALA:O	2.07	0.54
1:BG:86:ILE:HD12	1:BG:86:ILE:H	1.73	0.54
1:BH:165:ARG:HB2	3:ED:33:PRO:O	2.06	0.54
1:BI:176:ALA:HB1	3:EA:174:ALA:O	2.07	0.54
1:BI:239:PHE:HD2	3:EE:226:GLN:NE2	2.05	0.54
2:C1:60:ARG:O	2:C1:216:ALA:HB1	2.07	0.54
2:C4:27:GLN:CG	2:C4:28:GLY:N	2.70	0.54
2:C4:218:ILE:O	2:C4:219:ASP:HB2	2.06	0.54
2:C5:84:PRO:HG3	2:C5:108:TRP:HH2	1.72	0.54
2:C7:225:PRO:HG2	3:D8:141:CYS:HA	1.89	0.54
2:CE:69:TRP:CH2	2:CE:124:LEU:HG	2.42	0.54
2:CE:75:HIS:HE2	3:DE:59:LYS:HB3	1.71	0.54
2:CF:27:GLN:CG	2:CF:28:GLY:N	2.70	0.54
2:CI:84:PRO:HD3	2:CI:108:TRP:HZ2	1.70	0.54
2:CM:75:HIS:HE2	3:DM:59:LYS:HB3	1.71	0.54
2:CN:27:GLN:CG	2:CN:28:GLY:N	2.70	0.54
2:CN:69:TRP:CH2	2:CN:124:LEU:HG	2.42	0.54
2:CR:60:ARG:O	2:CR:216:ALA:HB1	2.07	0.54
2:CV:218:ILE:O	2:CV:219:ASP:HB2	2.06	0.54
2:CW:63:THR:HG22	3:DJ:188:LEU:HD21	1.87	0.54
2:CW:73:GLN:HA	2:CW:73:GLN:NE2	2.17	0.54
2:CW:225:PRO:HG2	3:DX:141:CYS:HA	1.89	0.54
2:Cb:60:ARG:O	2:Cb:216:ALA:HB1	2.07	0.54
2:Cf:209:VAL:N	2:Cf:210:PRO:CD	2.68	0.54
2:Ch:225:PRO:HG2	3:Di:141:CYS:HA	1.89	0.54
2:Cj:27:GLN:CG	2:Cj:28:GLY:N	2.70	0.54
2:Ck:69:TRP:CH2	2:Ck:124:LEU:HG	2.42	0.54
2:Cl:60:ARG:O	2:Cl:216:ALA:HB1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cm:36:TYR:CE2	2:Cm:130:PRO:HG2	2.42	0.54
2:Cn:27:GLN:CG	2:Cn:28:GLY:N	2.70	0.54
2:Cq:84:PRO:HD3	2:Cq:108:TRP:HZ2	1.71	0.54
2:Cs:225:PRO:HG2	3:Do:141:CYS:HA	1.89	0.54
2:Cv:69:TRP:CH2	2:Cv:124:LEU:HG	2.42	0.54
3:D1:121:LEU:HD22	3:D1:186:TYR:HB2	1.89	0.54
3:D2:74:PHE:O	3:D2:184:GLN:HA	2.07	0.54
3:D5:121:LEU:HD22	3:D5:186:TYR:HB2	1.89	0.54
3:D6:15:MET:HB3	3:D6:18:VAL:HG13	1.90	0.54
3:DA:107:ASN:HA	3:DA:154:PHE:O	2.08	0.54
3:DC:107:ASN:HA	3:DC:154:PHE:O	2.07	0.54
3:DF:56:ILE:HG13	3:DF:74:PHE:HE1	1.72	0.54
3:DJ:15:MET:HB3	3:DJ:18:VAL:HG13	1.90	0.54
3:DJ:179:VAL:HG12	3:DJ:181:GLY:H	1.71	0.54
3:DL:74:PHE:O	3:DL:184:GLN:HA	2.07	0.54
3:DR:107:ASN:HA	3:DR:154:PHE:O	2.07	0.54
3:DR:109:ILE:HB	3:DR:205:LEU:HB2	1.88	0.54
3:DU:74:PHE:O	3:DU:184:GLN:HA	2.07	0.54
3:DV:74:PHE:O	3:DV:184:GLN:HA	2.07	0.54
3:DX:107:ASN:HA	3:DX:154:PHE:O	2.07	0.54
3:Db:122:VAL:O	3:Db:143:HIS:HB2	2.05	0.54
3:Di:107:ASN:HA	3:Di:154:PHE:O	2.07	0.54
3:Dn:74:PHE:O	3:Dn:184:GLN:HA	2.07	0.54
3:Do:74:PHE:O	3:Do:184:GLN:HA	2.07	0.54
3:EA:101:ARG:HA	3:EA:160:TYR:HE2	1.72	0.54
3:EC:101:ARG:HA	3:EC:160:TYR:HE2	1.73	0.54
4:F0:25:PHE:CE1	4:F1:22:VAL:HB	2.42	0.54
4:F0:25:PHE:HE1	4:F1:22:VAL:HB	1.72	0.54
4:F3:25:PHE:CE1	4:FZ:22:VAL:HB	2.42	0.54
4:F5:25:PHE:HE1	4:F6:22:VAL:HB	1.72	0.54
4:F6:28:GLN:O	4:F6:29:GLN:HG3	2.07	0.54
4:F9:22:VAL:HB	4:Fd:25:PHE:CE1	2.42	0.54
4:F9:25:PHE:HE1	4:Fa:22:VAL:HB	1.72	0.54
4:FF:22:VAL:HB	4:FJ:25:PHE:HE1	1.72	0.54
4:FL:25:PHE:CE1	4:FM:22:VAL:HB	2.42	0.54
4:FN:25:PHE:HE1	4:FO:22:VAL:HB	1.72	0.54
4:FP:22:VAL:HB	4:FT:25:PHE:HE1	1.72	0.54
4:Fh:28:GLN:O	4:Fh:29:GLN:HG3	2.07	0.54
4:Fj:25:PHE:CE1	4:Fk:22:VAL:HB	2.42	0.54
4:Fn:28:GLN:O	4:Fn:29:GLN:HG3	2.07	0.54
4:Fo:22:VAL:HB	4:Fs:25:PHE:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Fp:25:PHE:HE1	4:Fq:22:VAL:HB	1.72	0.54
4:Ft:25:PHE:CE1	4:Fu:22:VAL:HB	2.42	0.54
4:Fw:25:PHE:HE1	4:Fx:22:VAL:HB	1.72	0.54
1:A3:115:THR:OG1	1:A3:133:LEU:HB2	2.08	0.54
1:A4:19:LEU:HD12	3:D5:160:TYR:HB3	1.89	0.54
1:A4:239:PHE:HD2	3:D5:226:GLN:NE2	2.05	0.54
1:A5:239:PHE:HD2	3:D6:226:GLN:NE2	2.05	0.54
1:A6:48:LEU:HD21	1:A6:103:TRP:CZ3	2.43	0.54
1:A8:181:LYS:HA	2:C9:137:GLU:HG3	1.89	0.54
1:A9:103:TRP:HB2	1:A9:198:THR:HG22	1.90	0.54
1:AA:176:ALA:HB1	3:DB:174:ALA:O	2.07	0.54
1:AB:221:PRO:CA	3:DB:40:PHE:HE2	2.21	0.54
1:AC:176:ALA:HB1	3:DD:174:ALA:O	2.07	0.54
1:AD:165:ARG:HB2	3:DD:33:PRO:O	2.07	0.54
1:AF:115:THR:OG1	1:AF:133:LEU:HB2	2.08	0.54
1:AG:48:LEU:HD21	1:AG:103:TRP:CZ3	2.43	0.54
1:AG:118:ALA:HB2	1:AG:132:GLN:NE2	2.23	0.54
1:AH:48:LEU:HD21	1:AH:103:TRP:CZ3	2.43	0.54
1:AH:221:PRO:CA	3:DH:40:PHE:HE2	2.21	0.54
1:AK:115:THR:OG1	1:AK:133:LEU:HB2	2.08	0.54
1:AO:115:THR:OG1	1:AO:133:LEU:HB2	2.08	0.54
1:AR:115:THR:OG1	1:AR:133:LEU:HB2	2.08	0.54
1:AS:19:LEU:HD12	3:DT:160:TYR:HB3	1.89	0.54
1:AS:221:PRO:CA	3:DT:40:PHE:HE2	2.21	0.54
1:AT:181:LYS:HA	2:CU:137:GLU:HG3	1.89	0.54
1:AU:176:ALA:HB1	3:DW:174:ALA:O	2.07	0.54
1:AU:181:LYS:HA	2:CV:137:GLU:HG3	1.89	0.54
1:AU:239:PHE:HD2	3:DV:226:GLN:NE2	2.05	0.54
1:AW:165:ARG:HB2	3:DX:33:PRO:O	2.06	0.54
1:Aa:181:LYS:HA	2:Cc:137:GLU:HG3	1.89	0.54
1:Ab:115:THR:OG1	1:Ab:133:LEU:HB2	2.08	0.54
1:Ad:157:SER:CB	3:Df:24:PRO:HA	2.35	0.54
1:Ad:181:LYS:HA	2:Cf:137:GLU:HG3	1.89	0.54
1:Ad:244:ASN:OD1	3:Df:172:ALA:HB1	2.06	0.54
1:Ae:176:ALA:HB1	3:Dh:174:ALA:O	2.07	0.54
1:Af:239:PHE:HD2	3:Dh:226:GLN:NE2	2.05	0.54
1:Ah:115:THR:OG1	1:Ah:133:LEU:HB2	2.08	0.54
1:Aj:86:ILE:HD12	1:Aj:86:ILE:H	1.72	0.54
1:Al:103:TRP:HB2	1:Al:198:THR:HG22	1.89	0.54
1:BC:165:ARG:HB2	3:Dr:33:PRO:O	2.06	0.54
1:BE:48:LEU:HD21	1:BE:103:TRP:CZ3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:176:ALA:HB1	3:EB:174:ALA:O	2.07	0.54
1:BE:221:PRO:CA	3:EA:40:PHE:HE2	2.21	0.54
1:BF:239:PHE:HD2	3:EB:226:GLN:NE2	2.05	0.54
2:C0:60:ARG:O	2:C0:216:ALA:HB1	2.07	0.54
2:C3:69:TRP:CH2	2:C3:124:LEU:HG	2.42	0.54
2:C4:84:PRO:HG3	2:C4:108:TRP:HH2	1.72	0.54
2:C8:75:HIS:HE2	3:D8:59:LYS:HB3	1.71	0.54
2:CA:36:TYR:CE2	2:CA:130:PRO:HG2	2.42	0.54
2:CA:60:ARG:O	2:CA:216:ALA:HB1	2.07	0.54
2:CB:202:LEU:HD11	2:CB:209:VAL:HG21	1.88	0.54
2:CG:84:PRO:HG3	2:CG:108:TRP:HH2	1.72	0.54
2:CI:69:TRP:CH2	2:CI:124:LEU:HG	2.42	0.54
2:CJ:69:TRP:CH2	2:CJ:124:LEU:HG	2.42	0.54
2:CP:36:TYR:CE2	2:CP:130:PRO:HG2	2.42	0.54
2:CP:60:ARG:O	2:CP:216:ALA:HB1	2.07	0.54
2:CP:69:TRP:CH2	2:CP:124:LEU:HG	2.42	0.54
2:CQ:27:GLN:CG	2:CQ:28:GLY:N	2.70	0.54
2:CQ:69:TRP:CH2	2:CQ:124:LEU:HG	2.42	0.54
2:CT:73:GLN:HA	2:CT:73:GLN:NE2	2.17	0.54
2:CT:225:PRO:HG2	3:DP:141:CYS:HA	1.89	0.54
2:CV:27:GLN:CG	2:CV:28:GLY:N	2.70	0.54
2:CX:27:GLN:CG	2:CX:28:GLY:N	2.70	0.54
2:CY:69:TRP:CH2	2:CY:124:LEU:HG	2.42	0.54
2:CY:202:LEU:HD11	2:CY:209:VAL:HG21	1.88	0.54
2:Cb:202:LEU:HD11	2:Cb:209:VAL:HG21	1.88	0.54
2:Cc:69:TRP:CH2	2:Cc:124:LEU:HG	2.42	0.54
2:Cd:75:HIS:HE2	3:Dd:59:LYS:HB3	1.71	0.54
2:Cd:218:ILE:O	2:Cd:219:ASP:HB2	2.06	0.54
2:Cf:69:TRP:CH2	2:Cf:124:LEU:HG	2.42	0.54
2:Cg:60:ARG:O	2:Cg:216:ALA:HB1	2.07	0.54
2:Cg:84:PRO:HG3	2:Cg:108:TRP:HH2	1.72	0.54
2:Cl:27:GLN:CG	2:Cl:28:GLY:N	2.70	0.54
2:Cl:202:LEU:HD11	2:Cl:209:VAL:HG21	1.88	0.54
2:Cm:84:PRO:HG3	2:Cm:108:TRP:HH2	1.72	0.54
2:Cn:60:ARG:O	2:Cn:216:ALA:HB1	2.07	0.54
2:Cu:119:ALA:O	2:Cu:205:PRO:HD3	2.06	0.54
2:Cu:202:LEU:HD11	2:Cu:209:VAL:HG21	1.88	0.54
2:Cu:225:PRO:HG2	3:EC:141:CYS:HA	1.89	0.54
2:Cw:209:VAL:N	2:Cw:210:PRO:CD	2.68	0.54
2:Cx:119:ALA:O	2:Cx:205:PRO:HD3	2.06	0.54
3:D1:101:ARG:HA	3:D1:160:TYR:HE2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D5:15:MET:HB3	3:D5:18:VAL:HG13	1.90	0.54
3:D6:107:ASN:HA	3:D6:154:PHE:O	2.07	0.54
3:D8:56:ILE:HG13	3:D8:74:PHE:HE1	1.72	0.54
3:D8:107:ASN:HA	3:D8:154:PHE:O	2.08	0.54
3:DB:15:MET:HB3	3:DB:18:VAL:HG13	1.90	0.54
3:DD:99:GLN:HB2	3:DD:217:ARG:HG3	1.87	0.54
3:DG:179:VAL:HG12	3:DG:181:GLY:H	1.71	0.54
3:DH:121:LEU:HD22	3:DH:186:TYR:HB2	1.89	0.54
3:DM:101:ARG:HA	3:DM:160:TYR:HE2	1.73	0.54
3:DM:107:ASN:HA	3:DM:154:PHE:O	2.08	0.54
3:DM:109:ILE:HB	3:DM:205:LEU:HB2	1.88	0.54
3:DS:15:MET:HB3	3:DS:18:VAL:HG13	1.90	0.54
3:DU:99:GLN:HB2	3:DU:217:ARG:HG3	1.87	0.54
3:DY:121:LEU:HD22	3:DY:186:TYR:HB2	1.89	0.54
3:Dg:101:ARG:HA	3:Dg:160:TYR:HE2	1.72	0.54
3:Dj:86:HIS:ND1	3:Dj:87:GLY:N	2.54	0.54
3:Dm:56:ILE:HG13	3:Dm:74:PHE:HE1	1.72	0.54
3:Do:15:MET:HB3	3:Do:18:VAL:HG13	1.90	0.54
3:EB:101:ARG:HA	3:EB:160:TYR:HE2	1.72	0.54
4:F5:25:PHE:CE1	4:F6:22:VAL:HB	2.42	0.54
4:FK:22:VAL:HB	4:FO:25:PHE:CE1	2.42	0.54
4:FK:22:VAL:HB	4:FO:25:PHE:HE1	1.72	0.54
4:FL:25:PHE:HE1	4:FM:22:VAL:HB	1.72	0.54
4:FZ:28:GLN:O	4:FZ:29:GLN:HG3	2.07	0.54
4:Fa:25:PHE:HE1	4:Fb:22:VAL:HB	1.72	0.54
4:Fd:28:GLN:O	4:Fd:29:GLN:HG3	2.07	0.54
4:Fe:22:VAL:HB	4:Fi:25:PHE:HE1	1.72	0.54
4:Fe:25:PHE:HE1	4:Ff:22:VAL:HB	1.72	0.54
4:Fe:28:GLN:O	4:Fe:29:GLN:HG3	2.07	0.54
4:Fj:28:GLN:O	4:Fj:29:GLN:HG3	2.07	0.54
4:Fo:22:VAL:HB	4:Fs:25:PHE:HE1	1.72	0.54
4:Fp:28:GLN:O	4:Fp:29:GLN:HG3	2.07	0.54
4:Fv:25:PHE:CE1	4:Fw:22:VAL:HB	2.42	0.54
1:A3:19:LEU:HD12	3:D4:160:TYR:HB3	1.89	0.54
1:A3:181:LYS:HA	2:C4:137:GLU:HG3	1.89	0.54
1:A5:115:THR:OG1	1:A5:133:LEU:HB2	2.08	0.54
1:A5:176:ALA:HB1	3:D7:174:ALA:O	2.07	0.54
1:A6:88:PHE:CE1	1:A6:205:GLY:C	2.85	0.54
1:A6:244:ASN:OD1	3:D7:172:ALA:HB1	2.06	0.54
1:A7:165:ARG:HB2	3:D8:33:PRO:O	2.07	0.54
1:A8:115:THR:OG1	1:A8:133:LEU:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:176:ALA:HB1	3:Da:174:ALA:O	2.07	0.54
1:A9:115:THR:OG1	1:A9:133:LEU:HB2	2.08	0.54
1:AC:103:TRP:HB2	1:AC:198:THR:HG22	1.89	0.54
1:AD:115:THR:OG1	1:AD:133:LEU:HB2	2.08	0.54
1:AD:239:PHE:HD2	3:DD:226:GLN:NE2	2.05	0.54
1:AE:221:PRO:CA	3:DE:40:PHE:HE2	2.21	0.54
1:AF:88:PHE:CE1	1:AF:205:GLY:C	2.84	0.54
1:AH:176:ALA:HB1	3:DI:174:ALA:O	2.07	0.54
1:AI:48:LEU:HD21	1:AI:103:TRP:CZ3	2.43	0.54
1:AJ:165:ARG:HB2	3:DJ:33:PRO:O	2.07	0.54
1:AK:176:ALA:HB1	3:DL:174:ALA:O	2.07	0.54
1:AL:115:THR:OG1	1:AL:133:LEU:HB2	2.08	0.54
1:AM:239:PHE:HD2	3:DM:226:GLN:NE2	2.05	0.54
1:AN:181:LYS:HA	2:CN:137:GLU:HG3	1.89	0.54
1:AO:88:PHE:CE1	1:AO:205:GLY:C	2.85	0.54
1:AO:181:LYS:HA	2:CO:137:GLU:HG3	1.89	0.54
1:AQ:157:SER:CB	3:DQ:24:PRO:HA	2.36	0.54
1:AQ:239:PHE:HD2	3:DQ:226:GLN:NE2	2.05	0.54
1:AR:181:LYS:HA	2:CR:137:GLU:HG3	1.89	0.54
1:AR:239:PHE:HD2	3:DR:226:GLN:NE2	2.05	0.54
1:AV:165:ARG:HB2	3:DW:33:PRO:O	2.06	0.54
1:Ab:176:ALA:HB1	3:D9:174:ALA:O	2.07	0.54
1:Ac:176:ALA:HB1	3:Df:174:ALA:O	2.07	0.54
1:Ad:48:LEU:HD21	1:Ad:103:TRP:CZ3	2.43	0.54
1:Ae:239:PHE:HD2	3:Dg:226:GLN:NE2	2.05	0.54
1:Af:86:ILE:HD12	1:Af:86:ILE:H	1.73	0.54
1:Ag:221:PRO:CA	3:Di:40:PHE:HE2	2.21	0.54
1:Ai:88:PHE:CE1	1:Ai:205:GLY:C	2.85	0.54
1:Ai:239:PHE:HD2	3:Dk:226:GLN:NE2	2.05	0.54
1:Am:239:PHE:HD2	3:Do:226:GLN:NE2	2.05	0.54
1:BA:86:ILE:HD12	1:BA:86:ILE:H	1.72	0.54
1:BA:176:ALA:HB1	3:Dq:174:ALA:O	2.07	0.54
1:BB:115:THR:OG1	1:BB:133:LEU:HB2	2.08	0.54
1:BC:19:LEU:HD12	3:Dr:160:TYR:HB3	1.89	0.54
1:BD:221:PRO:CA	3:Ds:40:PHE:HE2	2.21	0.54
1:BF:19:LEU:HD12	3:EB:160:TYR:HB3	1.89	0.54
1:BH:86:ILE:HD12	1:BH:86:ILE:H	1.73	0.54
1:BH:221:PRO:CA	3:ED:40:PHE:HE2	2.21	0.54
2:C2:69:TRP:CH2	2:C2:124:LEU:HG	2.42	0.54
2:C6:36:TYR:CE2	2:C6:130:PRO:HG2	2.42	0.54
2:C8:69:TRP:CH2	2:C8:124:LEU:HG	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:63:THR:HG22	3:D1:188:LEU:HD21	1.87	0.54
2:CH:73:GLN:HA	2:CH:73:GLN:NE2	2.17	0.54
2:CI:84:PRO:HG3	2:CI:108:TRP:HH2	1.72	0.54
2:CI:218:ILE:O	2:CI:219:ASP:HB2	2.06	0.54
2:CI:225:PRO:HG2	3:DJ:141:CYS:HA	1.89	0.54
2:CK:36:TYR:HE2	2:CK:130:PRO:HG3	1.71	0.54
2:CN:225:PRO:HG2	3:DO:141:CYS:HA	1.89	0.54
2:CO:36:TYR:CE2	2:CO:130:PRO:HG2	2.42	0.54
2:CO:69:TRP:CH2	2:CO:124:LEU:HG	2.42	0.54
2:CQ:36:TYR:CE2	2:CQ:130:PRO:HG2	2.42	0.54
2:CQ:60:ARG:O	2:CQ:216:ALA:HB1	2.07	0.54
2:CR:69:TRP:CH2	2:CR:124:LEU:HG	2.42	0.54
2:Cb:36:TYR:CE2	2:Cb:130:PRO:HG2	2.42	0.54
2:Ce:27:GLN:CG	2:Ce:28:GLY:N	2.70	0.54
2:Ce:69:TRP:CH2	2:Ce:124:LEU:HG	2.42	0.54
2:Ci:27:GLN:CG	2:Ci:28:GLY:N	2.70	0.54
2:Cj:69:TRP:CH2	2:Cj:124:LEU:HG	2.42	0.54
2:Ck:84:PRO:HG3	2:Ck:108:TRP:HH2	1.72	0.54
2:Cm:69:TRP:CH2	2:Cm:124:LEU:HG	2.42	0.54
2:Co:69:TRP:CH2	2:Co:124:LEU:HG	2.42	0.54
2:Co:84:PRO:HG3	2:Co:108:TRP:HH2	1.72	0.54
2:Cs:75:HIS:HE2	3:Ds:59:LYS:HB3	1.71	0.54
2:Ct:36:TYR:CE2	2:Ct:130:PRO:HG2	2.42	0.54
2:Ct:117:SER:OG	2:Ct:118:PHE:N	2.41	0.54
2:Cu:84:PRO:HG3	2:Cu:108:TRP:HH2	1.72	0.54
3:D0:101:ARG:HA	3:D0:160:TYR:HE2	1.73	0.54
3:D1:74:PHE:O	3:D1:184:GLN:HA	2.07	0.54
3:D2:101:ARG:HA	3:D2:160:TYR:HE2	1.73	0.54
3:D4:15:MET:HB3	3:D4:18:VAL:HG13	1.90	0.54
3:D6:74:PHE:O	3:D6:184:GLN:HA	2.07	0.54
3:D8:109:ILE:HB	3:D8:205:LEU:HB2	1.88	0.54
3:D9:107:ASN:HA	3:D9:154:PHE:O	2.08	0.54
3:DC:74:PHE:O	3:DC:184:GLN:HA	2.07	0.54
3:DC:109:ILE:HB	3:DC:205:LEU:HB2	1.88	0.54
3:DJ:101:ARG:HA	3:DJ:160:TYR:HE2	1.73	0.54
3:DK:15:MET:HB3	3:DK:18:VAL:HG13	1.90	0.54
3:DL:56:ILE:HG13	3:DL:74:PHE:HE1	1.72	0.54
3:DR:15:MET:HB3	3:DR:18:VAL:HG13	1.90	0.54
3:DT:107:ASN:HA	3:DT:154:PHE:O	2.08	0.54
3:DW:121:LEU:HD22	3:DW:186:TYR:HB2	1.89	0.54
3:DY:101:ARG:HA	3:DY:160:TYR:HE2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:107:ASN:HA	3:DZ:154:PHE:O	2.07	0.54
3:Dd:121:LEU:HD22	3:Dd:186:TYR:HB2	1.89	0.54
3:Dn:15:MET:HB3	3:Dn:18:VAL:HG13	1.90	0.54
3:Dq:101:ARG:HA	3:Dq:160:TYR:HE2	1.73	0.54
3:Dr:101:ARG:HA	3:Dr:160:TYR:HE2	1.73	0.54
3:Dr:107:ASN:HA	3:Dr:154:PHE:O	2.08	0.54
3:Dr:179:VAL:HG12	3:Dr:181:GLY:H	1.71	0.54
3:ED:74:PHE:O	3:ED:184:GLN:HA	2.07	0.54
3:EE:74:PHE:O	3:EE:184:GLN:HA	2.07	0.54
4:FB:25:PHE:CE1	4:FC:22:VAL:HB	2.42	0.54
4:FD:25:PHE:HE1	4:FE:22:VAL:HB	1.72	0.54
4:FM:25:PHE:HE1	4:FN:22:VAL:HB	1.72	0.54
4:FM:28:GLN:O	4:FM:29:GLN:HG3	2.07	0.54
4:FO:28:GLN:O	4:FO:29:GLN:HG3	2.07	0.54
4:Fc:28:GLN:O	4:Fc:29:GLN:HG3	2.07	0.54
4:Fo:28:GLN:O	4:Fo:29:GLN:HG3	2.07	0.54
4:Fw:25:PHE:CE1	4:Fx:22:VAL:HB	2.42	0.54
1:A1:165:ARG:HB2	3:D2:33:PRO:O	2.07	0.54
1:A2:239:PHE:HD2	3:D3:226:GLN:NE2	2.05	0.54
1:A6:221:PRO:CA	3:D7:40:PHE:HE2	2.21	0.54
1:A8:86:ILE:HD12	1:A8:86:ILE:H	1.73	0.54
1:A8:221:PRO:CA	3:D9:40:PHE:HE2	2.21	0.54
1:A9:239:PHE:HD2	3:Da:226:GLN:NE2	2.05	0.54
1:AB:48:LEU:HD21	1:AB:103:TRP:CZ3	2.43	0.54
1:AB:239:PHE:HD2	3:DB:226:GLN:NE2	2.05	0.54
1:AI:176:ALA:HB1	3:DJ:174:ALA:O	2.07	0.54
1:AI:244:ASN:OD1	3:DI:172:ALA:HB1	2.06	0.54
1:AK:118:ALA:HB2	1:AK:132:GLN:NE2	2.23	0.54
1:AN:48:LEU:HD21	1:AN:103:TRP:CZ3	2.43	0.54
1:AN:176:ALA:HB1	3:DO:174:ALA:O	2.07	0.54
1:AQ:19:LEU:HD12	3:DQ:160:TYR:HB3	1.89	0.54
1:AQ:181:LYS:HA	2:CQ:137:GLU:HG3	1.90	0.54
1:AS:103:TRP:HB2	1:AS:198:THR:HG22	1.89	0.54
1:AX:115:THR:OG1	1:AX:133:LEU:HB2	2.08	0.54
1:AX:176:ALA:HB1	3:DU:174:ALA:O	2.07	0.54
1:AX:221:PRO:CA	3:DY:40:PHE:HE2	2.21	0.54
1:AY:176:ALA:HB1	3:D0:174:ALA:O	2.07	0.54
1:Aa:19:LEU:HD12	3:Dc:160:TYR:HB3	1.88	0.54
1:Ab:181:LYS:HA	2:Cd:137:GLU:HG3	1.89	0.54
1:Ac:165:ARG:HB2	3:De:33:PRO:O	2.06	0.54
1:Ae:48:LEU:HD21	1:Ae:103:TRP:CZ3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ae:118:ALA:HB2	1:Ae:132:GLN:NE2	2.23	0.54
1:Ag:86:ILE:HD12	1:Ag:86:ILE:H	1.72	0.54
1:Ai:19:LEU:HD12	3:Dk:160:TYR:HB3	1.89	0.54
1:Aj:118:ALA:HB2	1:Aj:132:GLN:NE2	2.23	0.54
1:Ak:221:PRO:CA	3:Dm:40:PHE:HE2	2.21	0.54
1:Am:80:SER:HB3	1:Am:216:ALA:HA	1.88	0.54
1:BA:115:THR:OG1	1:BA:133:LEU:HB2	2.08	0.54
1:BB:176:ALA:HB1	3:Dr:174:ALA:O	2.07	0.54
1:BE:19:LEU:HD12	3:EA:160:TYR:HB3	1.89	0.54
1:BG:181:LYS:HA	2:Cv:137:GLU:HG3	1.89	0.54
2:C4:75:HIS:HE2	3:D4:59:LYS:HB3	1.71	0.54
2:C5:36:TYR:CE2	2:C5:130:PRO:HG2	2.42	0.54
2:C5:117:SER:OG	2:C5:118:PHE:N	2.41	0.54
2:C7:36:TYR:CE2	2:C7:130:PRO:HG2	2.42	0.54
2:C7:117:SER:OG	2:C7:118:PHE:N	2.41	0.54
2:C8:84:PRO:HG3	2:C8:108:TRP:HH2	1.72	0.54
2:C8:209:VAL:N	2:C8:210:PRO:CD	2.68	0.54
2:CA:69:TRP:CH2	2:CA:124:LEU:HG	2.42	0.54
2:CB:69:TRP:CH2	2:CB:124:LEU:HG	2.42	0.54
2:CD:27:GLN:CG	2:CD:28:GLY:N	2.70	0.54
2:CD:60:ARG:O	2:CD:216:ALA:HB1	2.07	0.54
2:CE:117:SER:OG	2:CE:118:PHE:N	2.41	0.54
2:CF:36:TYR:CE2	2:CF:130:PRO:HG2	2.42	0.54
2:CH:36:TYR:HE2	2:CH:130:PRO:HG3	1.71	0.54
2:CI:27:GLN:CG	2:CI:28:GLY:N	2.70	0.54
2:CK:63:THR:HG22	3:Db:188:LEU:HD21	1.87	0.54
2:CO:27:GLN:CG	2:CO:28:GLY:N	2.70	0.54
2:CO:117:SER:OG	2:CO:118:PHE:N	2.41	0.54
2:CQ:84:PRO:HG3	2:CQ:108:TRP:HH2	1.72	0.54
2:CR:225:PRO:HG2	3:DS:141:CYS:HA	1.89	0.54
2:CT:69:TRP:CH2	2:CT:124:LEU:HG	2.42	0.54
2:CU:60:ARG:O	2:CU:216:ALA:HB1	2.07	0.54
2:CW:27:GLN:CG	2:CW:28:GLY:N	2.70	0.54
2:Cd:36:TYR:CE2	2:Cd:130:PRO:HG2	2.42	0.54
2:Cd:202:LEU:HD11	2:Cd:209:VAL:HG21	1.88	0.54
2:Ch:84:PRO:HG3	2:Ch:108:TRP:HH2	1.72	0.54
2:Cj:73:GLN:HA	2:Cj:73:GLN:NE2	2.17	0.54
2:Ck:119:ALA:O	2:Ck:205:PRO:HD3	2.06	0.54
2:Cm:225:PRO:HG2	3:Dn:141:CYS:HA	1.89	0.54
2:Cn:73:GLN:HA	2:Cn:73:GLN:NE2	2.17	0.54
2:Cn:117:SER:OG	2:Cn:118:PHE:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ct:27:GLN:CG	2:Ct:28:GLY:N	2.70	0.54
2:Cx:27:GLN:CG	2:Cx:28:GLY:N	2.70	0.54
3:D2:107:ASN:HA	3:D2:154:PHE:O	2.08	0.54
3:D4:121:LEU:HD22	3:D4:186:TYR:HB2	1.89	0.54
3:D5:101:ARG:HA	3:D5:160:TYR:HE2	1.73	0.54
3:D8:15:MET:HB3	3:D8:18:VAL:HG13	1.90	0.54
3:DA:101:ARG:HA	3:DA:160:TYR:HE2	1.73	0.54
3:DD:42:ASN:HD22	3:DD:44:ILE:HG22	1.65	0.54
3:DF:15:MET:HB3	3:DF:18:VAL:HG13	1.90	0.54
3:DK:74:PHE:O	3:DK:184:GLN:HA	2.07	0.54
3:DM:48:LYS:HA	3:DM:210:ALA:HB3	1.90	0.54
3:DM:74:PHE:O	3:DM:184:GLN:HA	2.07	0.54
3:DN:15:MET:HB3	3:DN:18:VAL:HG13	1.90	0.54
3:DN:74:PHE:O	3:DN:184:GLN:HA	2.07	0.54
3:DP:15:MET:HB3	3:DP:18:VAL:HG13	1.90	0.54
3:DU:15:MET:HB3	3:DU:18:VAL:HG13	1.90	0.54
3:DV:56:ILE:HG13	3:DV:74:PHE:HE1	1.72	0.54
3:DV:107:ASN:HA	3:DV:154:PHE:O	2.08	0.54
3:DY:15:MET:HB3	3:DY:18:VAL:HG13	1.90	0.54
3:Da:48:LYS:HA	3:Da:210:ALA:HB3	1.90	0.54
3:Da:121:LEU:HD22	3:Da:186:TYR:HB2	1.89	0.54
3:Db:48:LYS:HA	3:Db:210:ALA:HB3	1.90	0.54
3:De:107:ASN:HA	3:De:154:PHE:O	2.08	0.54
3:Dg:15:MET:HB3	3:Dg:18:VAL:HG13	1.90	0.54
3:Dg:107:ASN:HA	3:Dg:154:PHE:O	2.08	0.54
3:Dj:101:ARG:HA	3:Dj:160:TYR:HE2	1.73	0.54
3:EA:107:ASN:HA	3:EA:154:PHE:O	2.08	0.54
3:EB:15:MET:HB3	3:EB:18:VAL:HG13	1.90	0.54
3:EB:56:ILE:HG13	3:EB:74:PHE:HE1	1.72	0.54
3:ED:107:ASN:HA	3:ED:154:PHE:O	2.08	0.54
4:FC:28:GLN:O	4:FC:29:GLN:HG3	2.07	0.54
4:FD:25:PHE:CE1	4:FE:22:VAL:HB	2.42	0.54
4:FE:28:GLN:O	4:FE:29:GLN:HG3	2.07	0.54
4:FR:25:PHE:CE1	4:FS:22:VAL:HB	2.42	0.54
4:FR:28:GLN:O	4:FR:29:GLN:HG3	2.07	0.54
4:FV:25:PHE:CE1	4:FW:22:VAL:HB	2.42	0.54
4:FX:25:PHE:HE1	4:FY:22:VAL:HB	1.72	0.54
4:Fx:28:GLN:O	4:Fx:29:GLN:HG3	2.07	0.54
1:A0:165:ARG:HD3	2:C1:182:PRO:HG3	1.90	0.54
1:A1:103:TRP:HB2	1:A1:198:THR:HG22	1.89	0.54
1:A6:239:PHE:HD2	3:D7:226:GLN:NE2	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:176:ALA:HB1	3:D4:174:ALA:O	2.07	0.54
1:A7:239:PHE:HD2	3:D8:226:GLN:NE2	2.05	0.54
1:A8:239:PHE:HD2	3:D9:226:GLN:NE2	2.05	0.54
1:A9:176:ALA:HB1	3:Db:174:ALA:O	2.07	0.54
1:AA:19:LEU:HD12	3:DA:160:TYR:HB3	1.89	0.54
1:AA:115:THR:OG1	1:AA:133:LEU:HB2	2.08	0.54
1:AA:239:PHE:HD2	3:DA:226:GLN:NE2	2.05	0.54
1:AC:115:THR:OG1	1:AC:133:LEU:HB2	2.08	0.54
1:AD:181:LYS:HA	2:CD:137:GLU:HG3	1.89	0.54
1:AE:48:LEU:HD21	1:AE:103:TRP:CZ3	2.43	0.54
1:AE:165:ARG:HD3	2:CE:182:PRO:HG3	1.90	0.54
1:AE:244:ASN:OD1	3:DE:172:ALA:HB1	2.06	0.54
1:AF:103:TRP:HB2	1:AF:198:THR:HG22	1.89	0.54
1:AG:239:PHE:HD2	3:DG:226:GLN:NE2	2.05	0.54
1:AH:19:LEU:HD12	3:DH:160:TYR:HB3	1.88	0.54
1:AH:118:ALA:HB2	1:AH:132:GLN:NE2	2.23	0.54
1:AN:88:PHE:HE1	1:AN:205:GLY:C	2.14	0.54
1:AN:165:ARG:HD3	2:CN:182:PRO:HG3	1.90	0.54
1:AP:115:THR:OG1	1:AP:133:LEU:HB2	2.08	0.54
1:AQ:118:ALA:HB2	1:AQ:132:GLN:NE2	2.23	0.54
1:AS:244:ASN:OD1	3:DT:172:ALA:HB1	2.06	0.54
1:AT:48:LEU:HD21	1:AT:103:TRP:CZ3	2.43	0.54
1:AU:118:ALA:HB2	1:AU:132:GLN:NE2	2.23	0.54
1:AU:157:SER:CB	3:DV:24:PRO:HA	2.36	0.54
1:AX:118:ALA:HB2	1:AX:132:GLN:NE2	2.23	0.54
1:AY:221:PRO:CA	3:DZ:40:PHE:HE2	2.21	0.54
1:AY:239:PHE:HD2	3:DZ:226:GLN:NE2	2.05	0.54
1:Aa:221:PRO:CA	3:Dc:40:PHE:HE2	2.21	0.54
1:Af:181:LYS:HA	2:Ch:137:GLU:HG3	1.89	0.54
1:Ag:176:ALA:HB1	3:De:174:ALA:O	2.07	0.54
1:Ak:30:VAL:CG1	1:Ak:218:MET:HE3	2.34	0.54
1:Al:118:ALA:HB2	1:Al:132:GLN:NE2	2.23	0.54
1:Ao:221:PRO:CA	3:DS:40:PHE:HE2	2.21	0.54
1:BB:48:LEU:HD21	1:BB:103:TRP:CZ3	2.43	0.54
1:BB:221:PRO:CA	3:Dq:40:PHE:HE2	2.21	0.54
1:BC:48:LEU:HD21	1:BC:103:TRP:CZ3	2.43	0.54
1:BE:165:ARG:HB2	3:EA:33:PRO:O	2.07	0.54
2:C1:218:ILE:O	2:C1:219:ASP:HB2	2.06	0.54
2:C4:225:PRO:HG2	3:D5:141:CYS:HA	1.89	0.54
2:C5:27:GLN:CG	2:C5:28:GLY:N	2.70	0.54
2:C5:69:TRP:CH2	2:C5:124:LEU:HG	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:218:ILE:O	2:CC:219:ASP:HB2	2.06	0.54
2:CE:36:TYR:CE2	2:CE:130:PRO:HG2	2.42	0.54
2:CF:202:LEU:HD11	2:CF:209:VAL:HG21	1.88	0.54
2:CG:36:TYR:CE2	2:CG:130:PRO:HG2	2.42	0.54
2:CG:202:LEU:HD11	2:CG:209:VAL:HG21	1.88	0.54
2:CH:69:TRP:CH2	2:CH:124:LEU:HG	2.42	0.54
2:CH:84:PRO:HG3	2:CH:108:TRP:HH2	1.72	0.54
2:CJ:60:ARG:O	2:CJ:216:ALA:HB1	2.07	0.54
2:CL:60:ARG:O	2:CL:216:ALA:HB1	2.07	0.54
2:CM:27:GLN:CG	2:CM:28:GLY:N	2.70	0.54
2:CM:117:SER:OG	2:CM:118:PHE:N	2.41	0.54
2:CU:84:PRO:HG3	2:CU:108:TRP:HH2	1.72	0.54
2:CY:27:GLN:CG	2:CY:28:GLY:N	2.70	0.54
2:Ca:84:PRO:HG3	2:Ca:108:TRP:HH2	1.72	0.54
2:Ca:202:LEU:HD11	2:Ca:209:VAL:HG21	1.88	0.54
2:Ce:117:SER:OG	2:Ce:118:PHE:N	2.41	0.54
2:Ci:225:PRO:HG2	3:De:141:CYS:HA	1.89	0.54
2:Cj:202:LEU:HD11	2:Cj:209:VAL:HG21	1.88	0.54
2:Cl:69:TRP:CH2	2:Cl:124:LEU:HG	2.42	0.54
2:Cq:117:SER:OG	2:Cq:118:PHE:N	2.41	0.54
2:Cr:117:SER:OG	2:Cr:118:PHE:N	2.41	0.54
2:Cr:202:LEU:HD11	2:Cr:209:VAL:HG21	1.88	0.54
2:Cw:202:LEU:HD11	2:Cw:209:VAL:HG21	1.88	0.54
3:D1:15:MET:HB3	3:D1:18:VAL:HG13	1.90	0.54
3:D3:15:MET:HB3	3:D3:18:VAL:HG13	1.90	0.54
3:D4:101:ARG:HA	3:D4:160:TYR:HE2	1.73	0.54
3:D6:101:ARG:HA	3:D6:160:TYR:HE2	1.73	0.54
3:D6:121:LEU:HD22	3:D6:186:TYR:HB2	1.89	0.54
3:D9:101:ARG:HA	3:D9:160:TYR:HE2	1.72	0.54
3:DC:15:MET:HB3	3:DC:18:VAL:HG13	1.90	0.54
3:DD:48:LYS:HA	3:DD:210:ALA:HB3	1.90	0.54
3:DE:179:VAL:HG12	3:DE:181:GLY:H	1.71	0.54
3:DF:101:ARG:HA	3:DF:160:TYR:HE2	1.73	0.54
3:DH:74:PHE:O	3:DH:184:GLN:HA	2.07	0.54
3:DK:48:LYS:HA	3:DK:210:ALA:HB3	1.90	0.54
3:DM:15:MET:HB3	3:DM:18:VAL:HG13	1.90	0.54
3:DO:15:MET:HB3	3:DO:18:VAL:HG13	1.90	0.54
3:DP:48:LYS:HA	3:DP:210:ALA:HB3	1.90	0.54
3:DQ:107:ASN:HA	3:DQ:154:PHE:O	2.08	0.54
3:DR:74:PHE:O	3:DR:184:GLN:HA	2.07	0.54
3:DU:48:LYS:HA	3:DU:210:ALA:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DX:15:MET:HB3	3:DX:18:VAL:HG13	1.90	0.54
3:DZ:15:MET:HB3	3:DZ:18:VAL:HG13	1.90	0.54
3:Da:107:ASN:HA	3:Da:154:PHE:O	2.08	0.54
3:Dd:15:MET:HB3	3:Dd:18:VAL:HG13	1.90	0.54
3:Dd:107:ASN:HA	3:Dd:154:PHE:O	2.07	0.54
3:De:74:PHE:O	3:De:184:GLN:HA	2.07	0.54
3:Di:121:LEU:HD22	3:Di:186:TYR:HB2	1.89	0.54
3:Dk:15:MET:HB3	3:Dk:18:VAL:HG13	1.90	0.54
3:Dk:48:LYS:HA	3:Dk:210:ALA:HB3	1.90	0.54
3:Dk:107:ASN:HA	3:Dk:154:PHE:O	2.07	0.54
3:Dl:15:MET:HB3	3:Dl:18:VAL:HG13	1.90	0.54
3:Dl:109:ILE:HB	3:Dl:205:LEU:HB2	1.88	0.54
3:Dn:101:ARG:HA	3:Dn:160:TYR:HE2	1.72	0.54
3:Dp:48:LYS:HA	3:Dp:210:ALA:HB3	1.90	0.54
3:Dp:56:ILE:HG13	3:Dp:74:PHE:HE1	1.72	0.54
3:Ds:15:MET:HB3	3:Ds:18:VAL:HG13	1.90	0.54
3:EC:15:MET:HB3	3:EC:18:VAL:HG13	1.90	0.54
4:F1:25:PHE:HE1	4:F2:22:VAL:HB	1.72	0.54
4:F7:25:PHE:CE1	4:F8:22:VAL:HB	2.42	0.54
4:FK:25:PHE:HE1	4:FL:22:VAL:HB	1.72	0.54
4:FS:25:PHE:HE1	4:FT:22:VAL:HB	1.72	0.54
4:FV:25:PHE:HE1	4:FW:22:VAL:HB	1.72	0.54
4:FX:25:PHE:CE1	4:FY:22:VAL:HB	2.42	0.54
4:FX:28:GLN:O	4:FX:29:GLN:HG3	2.07	0.54
4:Fg:25:PHE:CE1	4:Fh:22:VAL:HB	2.42	0.54
4:Fl:25:PHE:HE1	4:Fm:22:VAL:HB	1.72	0.54
4:Fs:28:GLN:O	4:Fs:29:GLN:HG3	2.07	0.54
1:A1:86:ILE:HD12	1:A1:86:ILE:H	1.72	0.54
1:A1:115:THR:OG1	1:A1:133:LEU:HB2	2.08	0.54
1:A1:239:PHE:HD2	3:D2:226:GLN:NE2	2.05	0.54
1:A2:115:THR:OG1	1:A2:133:LEU:HB2	2.08	0.54
1:A4:165:ARG:HB2	3:D5:33:PRO:O	2.07	0.54
1:A6:157:SER:CB	3:D7:24:PRO:HA	2.36	0.54
1:A8:88:PHE:CE1	1:A8:205:GLY:C	2.84	0.54
1:A8:118:ALA:HB2	1:A8:132:GLN:NE2	2.23	0.54
1:AB:118:ALA:HB2	1:AB:132:GLN:NE2	2.23	0.54
1:AE:176:ALA:HB1	3:DA:174:ALA:O	2.07	0.54
1:AF:86:ILE:HD12	1:AF:86:ILE:H	1.73	0.54
1:AG:103:TRP:HB2	1:AG:198:THR:HG22	1.89	0.54
1:AH:165:ARG:HB2	3:DH:33:PRO:O	2.06	0.54
1:AI:115:THR:OG1	1:AI:133:LEU:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:118:ALA:HB2	1:AL:132:GLN:NE2	2.23	0.54
1:AL:221:PRO:CA	3:DL:40:PHE:HE2	2.21	0.54
1:AM:181:LYS:HA	2:CM:137:GLU:HG3	1.89	0.54
1:AM:221:PRO:CA	3:DM:40:PHE:HE2	2.21	0.54
1:AN:115:THR:OG1	1:AN:133:LEU:HB2	2.08	0.54
1:AO:118:ALA:HB2	1:AO:132:GLN:NE2	2.23	0.54
1:AP:118:ALA:HB2	1:AP:132:GLN:NE2	2.23	0.54
1:AP:176:ALA:HB1	3:DQ:174:ALA:O	2.07	0.54
1:AQ:221:PRO:CA	3:DQ:40:PHE:HE2	2.21	0.54
1:AS:118:ALA:HB2	1:AS:132:GLN:NE2	2.23	0.54
1:AS:239:PHE:HD2	3:DT:226:GLN:NE2	2.05	0.54
1:AT:103:TRP:HB2	1:AT:198:THR:HG22	1.89	0.54
1:AT:118:ALA:HB2	1:AT:132:GLN:NE2	2.23	0.54
1:AU:48:LEU:HD21	1:AU:103:TRP:CZ3	2.43	0.54
1:AV:48:LEU:HD21	1:AV:103:TRP:CZ3	2.43	0.54
1:AV:176:ALA:HB1	3:DX:174:ALA:O	2.07	0.54
1:AZ:115:THR:OG1	1:AZ:133:LEU:HB2	2.08	0.54
1:AZ:181:LYS:HA	2:C0:137:GLU:HG3	1.89	0.54
1:AZ:221:PRO:CA	3:D0:40:PHE:HE2	2.21	0.54
1:Aa:115:THR:OG1	1:Aa:133:LEU:HB2	2.08	0.54
1:Ae:30:VAL:CG1	1:Ae:218:MET:HE3	2.34	0.54
1:Af:118:ALA:HB2	1:Af:132:GLN:NE2	2.23	0.54
1:Af:221:PRO:CA	3:Dh:40:PHE:HE2	2.21	0.54
1:Ag:48:LEU:HD21	1:Ag:103:TRP:CZ3	2.43	0.54
1:Ai:221:PRO:CA	3:Dk:40:PHE:HE2	2.21	0.54
1:Ak:115:THR:OG1	1:Ak:133:LEU:HB2	2.08	0.54
1:Ak:118:ALA:HB2	1:Ak:132:GLN:NE2	2.23	0.54
1:Am:221:PRO:CA	3:Do:40:PHE:HE2	2.21	0.54
1:An:181:LYS:HA	2:Cb:137:GLU:HG3	1.89	0.54
1:BA:19:LEU:HD12	3:Dp:160:TYR:HB3	1.89	0.54
1:BA:103:TRP:HB2	1:BA:198:THR:HG22	1.89	0.54
1:BI:221:PRO:CA	3:EE:40:PHE:HE2	2.21	0.54
2:C2:27:GLN:CG	2:C2:28:GLY:N	2.70	0.54
2:C2:115:ASN:CA	3:Dh:119:LYS:HD2	2.31	0.54
2:C6:225:PRO:HG2	3:D7:141:CYS:HA	1.89	0.54
2:CA:75:HIS:HE2	3:DA:59:LYS:HB3	1.71	0.54
2:CD:225:PRO:HG2	3:DE:141:CYS:HA	1.89	0.54
2:CK:202:LEU:HD11	2:CK:209:VAL:HG21	1.88	0.54
2:CL:202:LEU:HD11	2:CL:209:VAL:HG21	1.88	0.54
2:CM:84:PRO:HG3	2:CM:108:TRP:HH2	1.72	0.54
2:CP:117:SER:OG	2:CP:118:PHE:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:202:LEU:HD11	2:CR:209:VAL:HG21	1.88	0.54
2:CS:60:ARG:O	2:CS:216:ALA:HB1	2.07	0.54
2:CT:75:HIS:HE2	3:DT:59:LYS:HB3	1.71	0.54
2:CV:209:VAL:N	2:CV:210:PRO:CD	2.68	0.54
2:CX:69:TRP:CH2	2:CX:124:LEU:HG	2.42	0.54
2:Cb:27:GLN:CG	2:Cb:28:GLY:N	2.70	0.54
2:Cb:69:TRP:CH2	2:Cb:124:LEU:HG	2.42	0.54
2:Cc:117:SER:OG	2:Cc:118:PHE:N	2.41	0.54
2:Ce:84:PRO:HG3	2:Ce:108:TRP:HH2	1.72	0.54
2:Cj:60:ARG:O	2:Cj:216:ALA:HB1	2.07	0.54
2:Ck:60:ARG:O	2:Ck:216:ALA:HB1	2.07	0.54
2:Cl:225:PRO:HG2	3:Dm:141:CYS:HA	1.89	0.54
2:Cm:27:GLN:CG	2:Cm:28:GLY:N	2.70	0.54
2:Cn:36:TYR:HE2	2:Cn:130:PRO:HG3	1.71	0.54
2:Cq:202:LEU:HD11	2:Cq:209:VAL:HG21	1.88	0.54
2:Cr:27:GLN:CG	2:Cr:28:GLY:N	2.70	0.54
2:Cr:36:TYR:CE2	2:Cr:130:PRO:HG2	2.42	0.54
2:Cv:209:VAL:N	2:Cv:210:PRO:CD	2.68	0.54
2:Cv:27:GLN:CG	2:Cv:28:GLY:N	2.70	0.54
2:Cx:202:LEU:HD11	2:Cx:209:VAL:HG21	1.89	0.54
3:D0:121:LEU:HD22	3:D0:186:TYR:HB2	1.89	0.54
3:D7:107:ASN:HA	3:D7:154:PHE:O	2.08	0.54
3:D9:15:MET:HB3	3:D9:18:VAL:HG13	1.90	0.54
3:DB:48:LYS:HA	3:DB:210:ALA:HB3	1.90	0.54
3:DS:107:ASN:HA	3:DS:154:PHE:O	2.08	0.54
3:DT:15:MET:HB3	3:DT:18:VAL:HG13	1.90	0.54
3:Da:15:MET:HB3	3:Da:18:VAL:HG13	1.90	0.54
3:Dd:74:PHE:O	3:Dd:184:GLN:HA	2.07	0.54
3:Dj:15:MET:HB3	3:Dj:18:VAL:HG13	1.90	0.54
3:Dl:48:LYS:HA	3:Dl:210:ALA:HB3	1.90	0.54
3:Dm:48:LYS:HA	3:Dm:210:ALA:HB3	1.90	0.54
3:Dr:121:LEU:HD22	3:Dr:186:TYR:HB2	1.89	0.54
3:EC:48:LYS:HA	3:EC:210:ALA:HB3	1.90	0.54
3:EC:107:ASN:HA	3:EC:154:PHE:O	2.07	0.54
4:F0:28:GLN:O	4:F0:29:GLN:HG3	2.07	0.54
4:F4:25:PHE:HE1	4:F5:22:VAL:HB	1.72	0.54
4:FF:28:GLN:O	4:FF:29:GLN:HG3	2.07	0.54
4:FG:25:PHE:CE1	4:FH:22:VAL:HB	2.42	0.54
4:FQ:28:GLN:O	4:FQ:29:GLN:HG3	2.07	0.54
4:Fr:28:GLN:O	4:Fr:29:GLN:HG3	2.07	0.54
1:A0:48:LEU:HD21	1:A0:103:TRP:CZ3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:176:ALA:HB1	3:D2:174:ALA:O	2.07	0.54
1:A4:115:THR:OG1	1:A4:133:LEU:HB2	2.08	0.54
1:A7:48:LEU:HD21	1:A7:103:TRP:CZ3	2.43	0.54
1:A9:48:LEU:HD21	1:A9:103:TRP:CZ3	2.43	0.54
1:AA:48:LEU:HD21	1:AA:103:TRP:CZ3	2.43	0.54
1:AA:221:PRO:CA	3:DA:40:PHE:HE2	2.21	0.54
1:AC:118:ALA:HB2	1:AC:132:GLN:NE2	2.23	0.54
1:AD:48:LEU:HD21	1:AD:103:TRP:CZ3	2.43	0.54
1:AF:19:LEU:HD12	3:DF:160:TYR:HB3	1.88	0.54
1:AG:115:THR:OG1	1:AG:133:LEU:HB2	2.08	0.54
1:AG:157:SER:CB	3:DG:24:PRO:HA	2.36	0.54
1:AH:103:TRP:HB2	1:AH:198:THR:HG22	1.89	0.54
1:AH:115:THR:OG1	1:AH:133:LEU:HB2	2.08	0.54
1:AL:48:LEU:HD21	1:AL:103:TRP:CZ3	2.43	0.54
1:AL:219:TYR:OH	3:DL:34:ARG:HD2	2.08	0.54
1:AL:239:PHE:HD2	3:DL:226:GLN:NE2	2.05	0.54
1:AN:118:ALA:HB2	1:AN:132:GLN:NE2	2.23	0.54
1:AQ:165:ARG:HD3	2:CQ:182:PRO:HG3	1.90	0.54
1:AT:219:TYR:OH	3:DU:34:ARG:HD2	2.08	0.54
1:AV:239:PHE:HD2	3:DW:226:GLN:NE2	2.05	0.54
1:AX:103:TRP:HB2	1:AX:198:THR:HG22	1.89	0.54
1:AY:219:TYR:OH	3:DZ:34:ARG:HD2	2.08	0.54
1:AZ:48:LEU:HD21	1:AZ:103:TRP:CZ3	2.43	0.54
1:Aa:157:SER:CB	3:Dc:24:PRO:HA	2.35	0.54
1:Ai:165:ARG:HB2	3:Dk:33:PRO:O	2.06	0.54
1:Aj:103:TRP:HB2	1:Aj:198:THR:HG22	1.89	0.54
1:Aj:221:PRO:CA	3:DI:40:PHE:HE2	2.21	0.54
1:Ak:219:TYR:OH	3:Dm:34:ARG:HD2	2.08	0.54
1:Am:103:TRP:HB2	1:Am:198:THR:HG22	1.89	0.54
1:Am:115:THR:OG1	1:Am:133:LEU:HB2	2.08	0.54
1:Am:176:ALA:HB1	3:Dp:174:ALA:O	2.07	0.54
1:An:176:ALA:HB1	3:Dc:174:ALA:O	2.07	0.54
1:Ao:48:LEU:HD21	1:Ao:103:TRP:CZ3	2.43	0.54
1:Ao:115:THR:OG1	1:Ao:133:LEU:HB2	2.08	0.54
1:BC:86:ILE:HD12	1:BC:86:ILE:H	1.73	0.54
1:BC:103:TRP:HB2	1:BC:198:THR:HG22	1.90	0.54
1:BD:115:THR:OG1	1:BD:133:LEU:HB2	2.08	0.54
1:BG:118:ALA:HB2	1:BG:132:GLN:NE2	2.23	0.54
1:BG:221:PRO:CA	3:EC:40:PHE:HE2	2.21	0.54
1:BH:115:THR:OG1	1:BH:133:LEU:HB2	2.08	0.54
1:BH:176:ALA:HB1	3:EE:174:ALA:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:195:VAL:C	2:C2:196:ILE:HG13	2.33	0.54
2:C3:117:SER:OG	2:C3:118:PHE:N	2.41	0.54
2:C3:195:VAL:C	2:C3:196:ILE:HG13	2.33	0.54
2:C4:195:VAL:C	2:C4:196:ILE:HG13	2.33	0.54
2:C6:27:GLN:CG	2:C6:28:GLY:N	2.70	0.54
2:C6:218:ILE:O	2:C6:219:ASP:HB2	2.06	0.54
2:C7:218:ILE:O	2:C7:219:ASP:HB2	2.06	0.54
2:C7:226:LEU:CD2	3:D8:126:PRO:HG2	2.36	0.54
2:C9:27:GLN:CG	2:C9:28:GLY:N	2.70	0.54
2:C9:69:TRP:CH2	2:C9:124:LEU:HG	2.42	0.54
2:C9:117:SER:OG	2:C9:118:PHE:N	2.41	0.54
2:CC:27:GLN:CG	2:CC:28:GLY:N	2.70	0.54
2:CC:69:TRP:CH2	2:CC:124:LEU:HG	2.42	0.54
2:CD:117:SER:OG	2:CD:118:PHE:N	2.41	0.54
2:CF:218:ILE:O	2:CF:219:ASP:HB2	2.06	0.54
2:CG:27:GLN:HG3	2:CG:28:GLY:H	1.73	0.54
2:CH:218:ILE:O	2:CH:219:ASP:HB2	2.06	0.54
2:CI:36:TYR:CE2	2:CI:130:PRO:HG2	2.42	0.54
2:CK:60:ARG:O	2:CK:216:ALA:HB1	2.07	0.54
2:CK:84:PRO:HG3	2:CK:108:TRP:HH2	1.72	0.54
2:CK:117:SER:OG	2:CK:118:PHE:N	2.41	0.54
2:CS:218:ILE:O	2:CS:219:ASP:HB2	2.06	0.54
2:Ca:69:TRP:CH2	2:Ca:124:LEU:HG	2.42	0.54
2:Cd:225:PRO:HG2	3:D9:141:CYS:HA	1.89	0.54
2:Cg:202:LEU:HD11	2:Cg:209:VAL:HG21	1.88	0.54
2:Ch:27:GLN:CG	2:Ch:28:GLY:N	2.70	0.54
2:Ck:225:PRO:HG2	3:Dl:141:CYS:HA	1.89	0.54
2:Cn:69:TRP:CH2	2:Cn:124:LEU:HG	2.42	0.54
2:Cn:202:LEU:HD11	2:Cn:209:VAL:HG21	1.88	0.54
2:Cs:60:ARG:O	2:Cs:216:ALA:HB1	2.07	0.54
2:Cs:195:VAL:C	2:Cs:196:ILE:HG13	2.33	0.54
2:Ct:84:PRO:HG3	2:Ct:108:TRP:HH2	1.72	0.54
2:Cu:69:TRP:CH2	2:Cu:124:LEU:HG	2.42	0.54
3:D0:15:MET:HB3	3:D0:18:VAL:HG13	1.90	0.54
3:D2:15:MET:HB3	3:D2:18:VAL:HG13	1.90	0.54
3:DA:15:MET:HB3	3:DA:18:VAL:HG13	1.90	0.54
3:DE:107:ASN:HA	3:DE:154:PHE:O	2.07	0.54
3:DL:48:LYS:HA	3:DL:210:ALA:HB3	1.90	0.54
3:DL:101:ARG:HA	3:DL:160:TYR:HE2	1.73	0.54
3:DO:48:LYS:HA	3:DO:210:ALA:HB3	1.90	0.54
3:DU:101:ARG:HA	3:DU:160:TYR:HE2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dc:15:MET:HB3	3:Dc:18:VAL:HG13	1.90	0.54
3:Dc:101:ARG:HA	3:Dc:160:TYR:HE2	1.73	0.54
3:Dk:101:ARG:HA	3:Dk:160:TYR:HE2	1.73	0.54
3:Dm:101:ARG:HA	3:Dm:160:TYR:HE2	1.72	0.54
3:Dp:15:MET:HB3	3:Dp:18:VAL:HG13	1.90	0.54
3:Ds:48:LYS:HA	3:Ds:210:ALA:HB3	1.90	0.54
3:EB:107:ASN:HA	3:EB:154:PHE:O	2.07	0.54
3:EE:121:LEU:HD22	3:EE:186:TYR:HB2	1.89	0.54
4:F1:25:PHE:CE1	4:F2:22:VAL:HB	2.42	0.54
4:F1:28:GLN:O	4:F1:29:GLN:HG3	2.07	0.54
4:FF:25:PHE:HE1	4:FG:22:VAL:HB	1.72	0.54
4:FH:25:PHE:HE1	4:FI:22:VAL:HB	1.73	0.54
4:FI:28:GLN:O	4:FI:29:GLN:HG3	2.07	0.54
4:Fc:25:PHE:CE1	4:Fd:22:VAL:HB	2.42	0.54
4:Fu:28:GLN:O	4:Fu:29:GLN:HG3	2.07	0.54
1:A0:104:VAL:HG22	1:A0:197:LEU:HD21	1.90	0.54
1:A1:165:ARG:HD3	2:C2:182:PRO:HG3	1.90	0.54
1:A1:181:LYS:HA	2:C2:137:GLU:HG3	1.89	0.54
1:A3:219:TYR:OH	3:D4:34:ARG:HD2	2.08	0.54
1:A4:30:VAL:CG1	1:A4:218:MET:HE3	2.33	0.54
1:A5:219:TYR:OH	3:D6:34:ARG:HD2	2.08	0.54
1:A6:165:ARG:HD3	2:C7:182:PRO:HG3	1.90	0.54
1:A9:104:VAL:HG22	1:A9:197:LEU:HD21	1.90	0.54
1:A9:118:ALA:HB2	1:A9:132:GLN:NE2	2.23	0.54
1:AC:181:LYS:HA	2:CC:137:GLU:HG3	1.89	0.54
1:AC:239:PHE:HD2	3:DC:226:GLN:NE2	2.05	0.54
1:AE:115:THR:OG1	1:AE:133:LEU:HB2	2.08	0.54
1:AF:219:TYR:OH	3:DF:34:ARG:HD2	2.08	0.54
1:AI:221:PRO:CA	3:DI:40:PHE:HE2	2.21	0.54
1:AJ:221:PRO:CA	3:DJ:40:PHE:HE2	2.21	0.54
1:AM:115:THR:OG1	1:AM:133:LEU:HB2	2.08	0.54
1:AN:104:VAL:HG22	1:AN:197:LEU:HD21	1.90	0.54
1:AN:221:PRO:CA	3:DN:40:PHE:HE2	2.21	0.54
1:AR:19:LEU:HD12	3:DR:160:TYR:HB3	1.89	0.54
1:AR:86:ILE:HD12	1:AR:86:ILE:H	1.73	0.54
1:AS:115:THR:OG1	1:AS:133:LEU:HB2	2.08	0.54
1:AV:115:THR:OG1	1:AV:133:LEU:HB2	2.08	0.54
1:AV:181:LYS:HA	2:CW:137:GLU:HG3	1.89	0.54
1:AW:19:LEU:HD12	3:DX:160:TYR:HB3	1.89	0.54
1:AX:165:ARG:HD3	2:CY:182:PRO:HG3	1.90	0.54
1:Ad:118:ALA:HB2	1:Ad:132:GLN:NE2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ae:181:LYS:HA	2:Cg:137:GLU:HG3	1.89	0.54
1:Ag:115:THR:OG1	1:Ag:133:LEU:HB2	2.08	0.54
1:Ah:118:ALA:HB2	1:Ah:132:GLN:NE2	2.23	0.54
1:Ah:219:TYR:OH	3:Dj:34:ARG:HD2	2.08	0.54
1:Aj:104:VAL:HG22	1:Aj:197:LEU:HD21	1.90	0.54
1:Aj:165:ARG:HD3	2:Cl:182:PRO:HG3	1.90	0.54
1:Am:181:LYS:HA	2:Co:137:GLU:HG3	1.89	0.54
1:An:104:VAL:HG22	1:An:197:LEU:HD21	1.90	0.54
1:An:115:THR:OG1	1:An:133:LEU:HB2	2.08	0.54
1:Ao:103:TRP:HB2	1:Ao:198:THR:HG22	1.89	0.54
1:BB:118:ALA:HB2	1:BB:132:GLN:NE2	2.23	0.54
1:BC:115:THR:OG1	1:BC:133:LEU:HB2	2.08	0.54
1:BC:176:ALA:HB1	3:Ds:174:ALA:O	2.07	0.54
1:BF:165:ARG:HD3	2:Cu:182:PRO:HG3	1.90	0.54
1:BG:176:ALA:HB1	3:ED:174:ALA:O	2.07	0.54
2:C7:69:TRP:CH2	2:C7:124:LEU:HG	2.42	0.54
2:C8:60:ARG:O	2:C8:216:ALA:HB1	2.07	0.54
2:C9:225:PRO:HG2	3:Da:141:CYS:HA	1.89	0.54
2:CA:27:GLN:HG3	2:CA:28:GLY:H	1.73	0.54
2:CG:69:TRP:CH2	2:CG:124:LEU:HG	2.42	0.54
2:CH:60:ARG:O	2:CH:216:ALA:HB1	2.07	0.54
2:CI:63:THR:HG22	3:DX:188:LEU:HD21	1.88	0.54
2:CO:225:PRO:HG2	3:DK:141:CYS:HA	1.89	0.54
2:CQ:73:GLN:HA	2:CQ:73:GLN:NE2	2.17	0.54
2:CT:27:GLN:HG3	2:CT:28:GLY:H	1.73	0.54
2:CY:60:ARG:O	2:CY:216:ALA:HB1	2.07	0.54
2:CZ:27:GLN:CG	2:CZ:28:GLY:N	2.70	0.54
2:CZ:218:ILE:O	2:CZ:219:ASP:HB2	2.06	0.54
2:Cf:117:SER:OG	2:Cf:118:PHE:N	2.41	0.54
2:Cg:225:PRO:HG2	3:Dh:141:CYS:HA	1.89	0.54
2:Ck:223:ASN:H	2:Ck:223:ASN:ND2	2.01	0.54
2:Co:209:VAL:N	2:Co:210:PRO:CD	2.68	0.54
2:Cq:84:PRO:HG3	2:Cq:108:TRP:HH2	1.72	0.54
2:Ct:69:TRP:CH2	2:Ct:124:LEU:HG	2.42	0.54
2:Cx:36:TYR:CE2	2:Cx:130:PRO:HG2	2.42	0.54
3:D7:48:LYS:HA	3:D7:210:ALA:HB3	1.90	0.54
3:D9:99:GLN:HB2	3:D9:217:ARG:HG3	1.87	0.54
3:DD:15:MET:HB3	3:DD:18:VAL:HG13	1.90	0.54
3:DF:48:LYS:HA	3:DF:210:ALA:HB3	1.90	0.54
3:DG:101:ARG:HA	3:DG:160:TYR:HE2	1.72	0.54
3:DH:48:LYS:HA	3:DH:210:ALA:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:107:ASN:HA	3:DJ:154:PHE:O	2.07	0.54
3:DK:101:ARG:HA	3:DK:160:TYR:HE2	1.73	0.54
3:DT:53:PHE:CE2	3:DT:205:LEU:HD13	2.41	0.54
3:DU:56:ILE:HG13	3:DU:74:PHE:HE1	1.72	0.54
3:DX:74:PHE:O	3:DX:184:GLN:HA	2.07	0.54
3:DZ:74:PHE:O	3:DZ:184:GLN:HA	2.07	0.54
3:Da:101:ARG:HA	3:Da:160:TYR:HE2	1.73	0.54
3:Dl:101:ARG:HA	3:Dl:160:TYR:HE2	1.72	0.54
3:Dm:107:ASN:HA	3:Dm:154:PHE:O	2.07	0.54
3:Do:107:ASN:HA	3:Do:154:PHE:O	2.08	0.54
3:Ds:107:ASN:HA	3:Ds:154:PHE:O	2.07	0.54
4:F4:28:GLN:O	4:F4:29:GLN:HG3	2.07	0.54
4:F8:28:GLN:O	4:F8:29:GLN:HG3	2.07	0.54
4:FA:22:VAL:HB	4:FE:25:PHE:HE1	1.72	0.54
4:FP:25:PHE:CE1	4:FQ:22:VAL:HB	2.42	0.54
4:Fh:25:PHE:HE1	4:Fi:22:VAL:HB	1.72	0.54
4:Fq:25:PHE:HE1	4:Fr:22:VAL:HB	1.72	0.54
1:A2:103:TRP:HB2	1:A2:198:THR:HG22	1.90	0.54
1:A2:165:ARG:HD3	2:C3:182:PRO:HG3	1.90	0.54
1:A3:30:VAL:CG1	1:A3:218:MET:HE3	2.34	0.54
1:A3:86:ILE:HD12	1:A3:86:ILE:H	1.72	0.54
1:A3:221:PRO:CA	3:D4:40:PHE:HE2	2.21	0.54
1:A7:115:THR:OG1	1:A7:133:LEU:HB2	2.08	0.54
1:A7:165:ARG:HD3	2:C8:182:PRO:HG3	1.90	0.54
1:A8:48:LEU:HD21	1:A8:103:TRP:CZ3	2.43	0.54
1:A8:219:TYR:OH	3:D9:34:ARG:HD2	2.08	0.54
1:AA:181:LYS:HA	2:CA:137:GLU:HG3	1.89	0.54
1:AE:103:TRP:HB2	1:AE:198:THR:HG22	1.89	0.54
1:AG:165:ARG:HD3	2:CG:182:PRO:HG3	1.90	0.54
1:AI:157:SER:CB	3:DI:24:PRO:HA	2.35	0.54
1:AI:181:LYS:HA	2:CI:137:GLU:HG3	1.89	0.54
1:AJ:118:ALA:HB2	1:AJ:132:GLN:NE2	2.23	0.54
1:AK:104:VAL:HG22	1:AK:197:LEU:HD21	1.90	0.54
1:AN:86:ILE:HD12	1:AN:86:ILE:H	1.73	0.54
1:AO:86:ILE:HD12	1:AO:86:ILE:H	1.72	0.54
1:AO:221:PRO:CA	3:DO:40:PHE:HE2	2.21	0.54
1:AR:55:HIS:O	1:AR:194:SER:CB	2.56	0.54
1:AR:157:SER:CB	3:DR:24:PRO:HA	2.36	0.54
1:AR:219:TYR:OH	3:DR:34:ARG:HD2	2.08	0.54
1:AS:219:TYR:OH	3:DT:34:ARG:HD2	2.08	0.54
1:AT:165:ARG:HD3	2:CU:182:PRO:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:118:ALA:HB2	1:AV:132:GLN:NE2	2.23	0.54
1:AV:219:TYR:OH	3:DW:34:ARG:HD2	2.08	0.54
1:AW:48:LEU:HD21	1:AW:103:TRP:CZ3	2.43	0.54
1:AY:48:LEU:HD21	1:AY:103:TRP:CZ3	2.43	0.54
1:AZ:103:TRP:HB2	1:AZ:198:THR:HG22	1.89	0.54
1:AZ:219:TYR:OH	3:D0:34:ARG:HD2	2.08	0.54
1:Aa:48:LEU:HD21	1:Aa:103:TRP:CZ3	2.43	0.54
1:Ab:30:VAL:CG1	1:Ab:218:MET:HE3	2.34	0.54
1:Ab:103:TRP:HB2	1:Ab:198:THR:HG22	1.89	0.54
1:Ab:221:PRO:CA	3:Dd:40:PHE:HE2	2.21	0.54
1:Ac:103:TRP:HB2	1:Ac:198:THR:HG22	1.89	0.54
1:Ae:221:PRO:CA	3:Dg:40:PHE:HE2	2.21	0.54
1:Af:103:TRP:HB2	1:Af:198:THR:HG22	1.89	0.54
1:Ag:104:VAL:HG22	1:Ag:197:LEU:HD21	1.90	0.54
1:Ah:48:LEU:HD21	1:Ah:103:TRP:CZ3	2.43	0.54
1:Ah:221:PRO:CA	3:Dj:40:PHE:HE2	2.21	0.54
1:BB:165:ARG:HD3	2:Cq:182:PRO:HG3	1.90	0.54
1:BG:48:LEU:HD21	1:BG:103:TRP:CZ3	2.43	0.54
1:BG:55:HIS:O	1:BG:194:SER:CB	2.57	0.54
1:BG:115:THR:OG1	1:BG:133:LEU:HB2	2.08	0.54
1:BI:103:TRP:HB2	1:BI:198:THR:HG22	1.89	0.54
2:C0:117:SER:OG	2:C0:118:PHE:N	2.41	0.54
2:C1:69:TRP:CH2	2:C1:124:LEU:HG	2.42	0.54
2:C2:117:SER:OG	2:C2:118:PHE:N	2.41	0.54
2:C3:226:LEU:CD2	3:DZ:126:PRO:HG2	2.36	0.54
2:C4:27:GLN:HG3	2:C4:28:GLY:H	1.73	0.54
2:C6:69:TRP:CH2	2:C6:124:LEU:HG	2.42	0.54
2:C8:195:VAL:C	2:C8:196:ILE:HG13	2.33	0.54
2:CB:195:VAL:C	2:CB:196:ILE:HG13	2.33	0.54
2:CC:60:ARG:O	2:CC:216:ALA:HB1	2.07	0.54
2:CC:226:LEU:CD2	3:DD:126:PRO:HG2	2.36	0.54
2:CE:225:PRO:HG2	3:DA:141:CYS:HA	1.89	0.54
2:CJ:84:PRO:HG3	2:CJ:108:TRP:HH2	1.72	0.54
2:CL:117:SER:OG	2:CL:118:PHE:N	2.41	0.54
2:CP:84:PRO:HG3	2:CP:108:TRP:HH2	1.72	0.54
2:CQ:225:PRO:HG2	3:DR:141:CYS:HA	1.89	0.54
2:CS:69:TRP:CH2	2:CS:124:LEU:HG	2.42	0.54
2:CT:36:TYR:CE2	2:CT:130:PRO:HG2	2.42	0.54
2:Cf:223:ASN:H	2:Cf:223:ASN:ND2	2.01	0.54
2:Cf:225:PRO:HG2	3:Dg:141:CYS:HA	1.89	0.54
2:Cj:84:PRO:HG3	2:Cj:108:TRP:HH2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cp:209:VAL:N	2:Cp:210:PRO:CD	2.68	0.54
2:Cr:60:ARG:O	2:Cr:216:ALA:HB1	2.07	0.54
2:Cw:60:ARG:O	2:Cw:216:ALA:HB1	2.07	0.54
3:D8:74:PHE:O	3:D8:184:GLN:HA	2.07	0.54
3:DA:74:PHE:O	3:DA:184:GLN:HA	2.07	0.54
3:DG:48:LYS:HA	3:DG:210:ALA:HB3	1.90	0.54
3:DK:107:ASN:HA	3:DK:154:PHE:O	2.08	0.54
3:DN:107:ASN:HA	3:DN:154:PHE:O	2.07	0.54
3:DR:101:ARG:HA	3:DR:160:TYR:HE2	1.72	0.54
3:DY:74:PHE:O	3:DY:184:GLN:HA	2.07	0.54
3:Db:107:ASN:HA	3:Db:154:PHE:O	2.08	0.54
3:Dd:101:ARG:HA	3:Dd:160:TYR:HE2	1.73	0.54
3:Df:101:ARG:HA	3:Df:160:TYR:HE2	1.72	0.54
3:Dj:121:LEU:HD22	3:Dj:186:TYR:HB2	1.89	0.54
3:Dn:107:ASN:HA	3:Dn:154:PHE:O	2.07	0.54
3:Dn:109:ILE:HB	3:Dn:205:LEU:HB2	1.88	0.54
4:F4:22:VAL:HB	4:F8:25:PHE:CE1	2.42	0.54
4:FB:28:GLN:O	4:FB:29:GLN:HG3	2.07	0.54
4:FH:25:PHE:CE1	4:FI:22:VAL:HB	2.42	0.54
4:FP:25:PHE:HE1	4:FQ:22:VAL:HB	1.72	0.54
4:FS:28:GLN:O	4:FS:29:GLN:HG3	2.07	0.54
4:Fo:25:PHE:HE1	4:Fp:22:VAL:HB	1.72	0.54
1:A0:239:PHE:HD2	3:D1:226:GLN:NE2	2.05	0.53
1:A3:165:ARG:HD3	2:C4:182:PRO:HG3	1.90	0.53
1:A4:104:VAL:HG22	1:A4:197:LEU:HD21	1.90	0.53
1:A5:103:TRP:HB2	1:A5:198:THR:HG22	1.89	0.53
1:A5:118:ALA:HB2	1:A5:132:GLN:NE2	2.23	0.53
1:A6:55:HIS:O	1:A6:194:SER:CB	2.56	0.53
1:A6:104:VAL:HG22	1:A6:197:LEU:HD21	1.90	0.53
1:A7:181:LYS:HA	2:C8:137:GLU:HG3	1.89	0.53
1:A8:55:HIS:O	1:A8:194:SER:CB	2.56	0.53
1:AA:118:ALA:HB2	1:AA:132:GLN:NE2	2.23	0.53
1:AB:176:ALA:HB1	3:DC:174:ALA:O	2.07	0.53
1:AD:19:LEU:HD12	3:DD:160:TYR:HB3	1.89	0.53
1:AD:118:ALA:HB2	1:AD:132:GLN:NE2	2.23	0.53
1:AD:157:SER:CB	3:DD:24:PRO:HA	2.36	0.53
1:AE:86:ILE:N	1:AE:86:ILE:CD1	2.65	0.53
1:AF:118:ALA:HB2	1:AF:132:GLN:NE2	2.23	0.53
1:AI:118:ALA:HB2	1:AI:132:GLN:NE2	2.23	0.53
1:AJ:219:TYR:OH	3:DJ:34:ARG:HD2	2.08	0.53
1:AL:104:VAL:HG22	1:AL:197:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:221:PRO:CA	3:DP:40:PHE:HE2	2.21	0.53
1:AU:219:TYR:OH	3:DV:34:ARG:HD2	2.08	0.53
1:AV:165:ARG:HD3	2:CW:182:PRO:HG3	1.90	0.53
1:AW:118:ALA:HB2	1:AW:132:GLN:NE2	2.23	0.53
1:AW:219:TYR:OH	3:DX:34:ARG:HD2	2.08	0.53
1:AZ:118:ALA:HB2	1:AZ:132:GLN:NE2	2.23	0.53
1:Ac:221:PRO:CA	3:De:40:PHE:HE2	2.21	0.53
1:Ad:176:ALA:HB1	3:Dg:174:ALA:O	2.07	0.53
1:Ae:157:SER:CB	3:Dg:24:PRO:HA	2.35	0.53
1:Ag:103:TRP:HB2	1:Ag:198:THR:HG22	1.89	0.53
1:Ag:118:ALA:HB2	1:Ag:132:GLN:NE2	2.23	0.53
1:Ai:80:SER:HB3	1:Ai:216:ALA:HA	1.88	0.53
1:Ai:103:TRP:HB2	1:Ai:198:THR:HG22	1.89	0.53
1:Al:55:HIS:O	1:Al:194:SER:CB	2.57	0.53
1:Al:219:TYR:OH	3:Dn:34:ARG:HD2	2.08	0.53
1:Am:48:LEU:HD21	1:Am:103:TRP:CZ3	2.43	0.53
1:An:103:TRP:HB2	1:An:198:THR:HG22	1.90	0.53
1:An:221:PRO:CA	3:Db:40:PHE:HE2	2.21	0.53
1:Ao:118:ALA:HB2	1:Ao:132:GLN:NE2	2.23	0.53
1:BC:118:ALA:HB2	1:BC:132:GLN:NE2	2.23	0.53
1:BD:48:LEU:HD21	1:BD:103:TRP:CZ3	2.43	0.53
1:BE:181:LYS:HA	2:Ct:137:GLU:HG3	1.89	0.53
1:BF:157:SER:CB	3:EB:24:PRO:HA	2.36	0.53
1:BF:221:PRO:CA	3:EB:40:PHE:HE2	2.21	0.53
1:BH:219:TYR:OH	3:ED:34:ARG:HD2	2.08	0.53
2:C0:69:TRP:CH2	2:C0:124:LEU:HG	2.42	0.53
2:C1:84:PRO:HG3	2:C1:108:TRP:HH2	1.72	0.53
2:C3:27:GLN:CG	2:C3:28:GLY:N	2.70	0.53
2:C3:84:PRO:HG3	2:C3:108:TRP:HH2	1.72	0.53
2:C5:195:VAL:C	2:C5:196:ILE:HG13	2.33	0.53
2:C6:27:GLN:HG3	2:C6:28:GLY:H	1.74	0.53
2:C9:195:VAL:C	2:C9:196:ILE:HG13	2.33	0.53
2:CH:27:GLN:CG	2:CH:28:GLY:N	2.70	0.53
2:CI:195:VAL:C	2:CI:196:ILE:HG13	2.33	0.53
2:CJ:195:VAL:C	2:CJ:196:ILE:HG13	2.33	0.53
2:CK:69:TRP:CH2	2:CK:124:LEU:HG	2.42	0.53
2:CK:225:PRO:HG2	3:DL:141:CYS:HA	1.89	0.53
2:CL:27:GLN:HG3	2:CL:28:GLY:H	1.73	0.53
2:CN:117:SER:OG	2:CN:118:PHE:N	2.41	0.53
2:CN:202:LEU:HD11	2:CN:209:VAL:HG21	1.88	0.53
2:CR:84:PRO:HG3	2:CR:108:TRP:HH2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CU:27:GLN:HG3	2:CU:28:GLY:H	1.73	0.53
2:CY:27:GLN:HG3	2:CY:28:GLY:H	1.73	0.53
2:Ca:60:ARG:O	2:Ca:216:ALA:HB1	2.07	0.53
2:Ca:225:PRO:HG2	3:Db:141:CYS:HA	1.89	0.53
2:Cl:195:VAL:C	2:Cl:196:ILE:HG13	2.33	0.53
2:Cm:27:GLN:HG3	2:Cm:28:GLY:H	1.73	0.53
2:Cm:117:SER:OG	2:Cm:118:PHE:N	2.41	0.53
2:Cp:27:GLN:HG3	2:Cp:28:GLY:H	1.73	0.53
2:Cq:36:TYR:CE2	2:Cq:130:PRO:HG2	2.42	0.53
2:Cr:27:GLN:HG3	2:Cr:28:GLY:H	1.74	0.53
2:Cr:69:TRP:CH2	2:Cr:124:LEU:HG	2.42	0.53
2:Cr:84:PRO:HG3	2:Cr:108:TRP:HH2	1.72	0.53
2:Cs:69:TRP:CH2	2:Cs:124:LEU:HG	2.42	0.53
2:Cw:195:VAL:C	2:Cw:196:ILE:HG13	2.33	0.53
2:Cw:218:ILE:O	2:Cw:219:ASP:HB2	2.06	0.53
2:Cw:225:PRO:HG2	3:EE:141:CYS:HA	1.89	0.53
3:D4:107:ASN:HA	3:D4:154:PHE:O	2.08	0.53
3:D7:15:MET:HB3	3:D7:18:VAL:HG13	1.90	0.53
3:D7:101:ARG:HA	3:D7:160:TYR:HE2	1.73	0.53
3:DB:107:ASN:HA	3:DB:154:PHE:O	2.08	0.53
3:DI:101:ARG:HA	3:DI:160:TYR:HE2	1.73	0.53
3:DJ:48:LYS:HA	3:DJ:210:ALA:HB3	1.90	0.53
3:DL:15:MET:HB3	3:DL:18:VAL:HG13	1.90	0.53
3:DN:101:ARG:HA	3:DN:160:TYR:HE2	1.73	0.53
3:DS:48:LYS:HA	3:DS:210:ALA:HB3	1.90	0.53
3:DT:48:LYS:HA	3:DT:210:ALA:HB3	1.90	0.53
3:DY:48:LYS:HA	3:DY:210:ALA:HB3	1.90	0.53
3:Db:15:MET:HB3	3:Db:18:VAL:HG13	1.90	0.53
3:Df:15:MET:HB3	3:Df:18:VAL:HG13	1.90	0.53
3:Di:48:LYS:HA	3:Di:210:ALA:HB3	1.90	0.53
3:Di:101:ARG:HA	3:Di:160:TYR:HE2	1.72	0.53
3:Dr:74:PHE:O	3:Dr:184:GLN:HA	2.07	0.53
4:F2:28:GLN:O	4:F2:29:GLN:HG3	2.07	0.53
4:FA:25:PHE:CE1	4:FB:22:VAL:HB	2.42	0.53
4:FG:25:PHE:HE1	4:FH:22:VAL:HB	1.72	0.53
4:FI:25:PHE:HE1	4:FJ:22:VAL:HB	1.72	0.53
4:FP:22:VAL:HB	4:FT:25:PHE:CE1	2.42	0.53
4:Fb:25:PHE:CE1	4:Fc:22:VAL:HB	2.42	0.53
4:Fc:25:PHE:HE1	4:Fd:22:VAL:HB	1.72	0.53
4:Fj:25:PHE:HE1	4:Fk:22:VAL:HB	1.72	0.53
4:Fk:28:GLN:O	4:Fk:29:GLN:HG3	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Fm:25:PHE:CE1	4:Fn:22:VAL:HB	2.42	0.53
4:Ft:25:PHE:HE1	4:Fu:22:VAL:HB	1.72	0.53
4:Fu:25:PHE:HE1	4:Fv:22:VAL:HB	1.72	0.53
1:A1:118:ALA:HB2	1:A1:132:GLN:NE2	2.23	0.53
1:A2:219:TYR:OH	3:D3:34:ARG:HD2	2.08	0.53
1:A3:239:PHE:HD2	3:D4:226:GLN:NE2	2.05	0.53
1:A4:48:LEU:HD21	1:A4:103:TRP:CZ3	2.43	0.53
1:A6:181:LYS:HA	2:C7:137:GLU:HG3	1.89	0.53
1:A7:118:ALA:HB2	1:A7:132:GLN:NE2	2.23	0.53
1:AA:219:TYR:OH	3:DA:34:ARG:HD2	2.08	0.53
1:AC:80:SER:HB3	1:AC:216:ALA:HA	1.88	0.53
1:AC:219:TYR:OH	3:DC:34:ARG:HD2	2.08	0.53
1:AC:221:PRO:CA	3:DC:40:PHE:HE2	2.21	0.53
1:AH:181:LYS:HA	2:CH:137:GLU:HG3	1.89	0.53
1:AH:219:TYR:OH	3:DH:34:ARG:HD2	2.08	0.53
1:AI:165:ARG:HD3	2:CI:182:PRO:HG3	1.90	0.53
1:AJ:48:LEU:HD21	1:AJ:103:TRP:CZ3	2.43	0.53
1:AJ:103:TRP:HB2	1:AJ:198:THR:HG22	1.89	0.53
1:AK:221:PRO:CA	3:DK:40:PHE:HE2	2.21	0.53
1:AL:181:LYS:HA	2:CL:137:GLU:HG3	1.89	0.53
1:AM:157:SER:CB	3:DM:24:PRO:HA	2.36	0.53
1:AO:104:VAL:HG22	1:AO:197:LEU:HD21	1.90	0.53
1:AP:19:LEU:HD12	3:DP:160:TYR:HB3	1.89	0.53
1:AS:80:SER:HB3	1:AS:216:ALA:HA	1.88	0.53
1:AU:165:ARG:HB2	3:DV:33:PRO:O	2.06	0.53
1:AV:86:ILE:HD12	1:AV:86:ILE:H	1.72	0.53
1:AX:219:TYR:OH	3:DY:34:ARG:HD2	2.08	0.53
1:AY:104:VAL:HG22	1:AY:197:LEU:HD21	1.90	0.53
1:AZ:165:ARG:HD3	2:C0:182:PRO:HG3	1.90	0.53
1:Ac:86:ILE:HD12	1:Ac:86:ILE:H	1.72	0.53
1:Ac:104:VAL:HG22	1:Ac:197:LEU:HD21	1.90	0.53
1:Ad:221:PRO:CA	3:Df:40:PHE:HE2	2.21	0.53
1:Ae:55:HIS:O	1:Ae:194:SER:CB	2.56	0.53
1:Af:55:HIS:O	1:Af:194:SER:CB	2.57	0.53
1:Ag:99:GLU:OE2	1:Ag:101:PHE:HE1	1.92	0.53
1:Ai:118:ALA:HB2	1:Ai:132:GLN:NE2	2.23	0.53
1:Ai:165:ARG:HD3	2:Ck:182:PRO:HG3	1.90	0.53
1:Ai:181:LYS:HA	2:Ck:137:GLU:HG3	1.89	0.53
1:Al:104:VAL:HG22	1:Al:197:LEU:HD21	1.90	0.53
1:BA:104:VAL:HG22	1:BA:197:LEU:HD21	1.90	0.53
1:BA:219:TYR:OH	3:Dp:34:ARG:HD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:219:TYR:OH	3:Ds:34:ARG:HD2	2.08	0.53
1:BF:104:VAL:HG22	1:BF:197:LEU:HD21	1.90	0.53
1:BF:176:ALA:HB1	3:EC:174:ALA:O	2.07	0.53
1:BG:165:ARG:HD3	2:Cv:182:PRO:HG3	1.90	0.53
1:BI:55:HIS:O	1:BI:194:SER:CB	2.56	0.53
2:C0:27:GLN:CG	2:C0:28:GLY:N	2.70	0.53
2:C3:225:PRO:HG2	3:DZ:141:CYS:HA	1.89	0.53
2:C6:60:ARG:O	2:C6:216:ALA:HB1	2.07	0.53
2:CC:36:TYR:CE2	2:CC:130:PRO:HG2	2.42	0.53
2:CD:27:GLN:HG3	2:CD:28:GLY:H	1.74	0.53
2:CG:195:VAL:C	2:CG:196:ILE:HG13	2.33	0.53
2:CH:27:GLN:HG3	2:CH:28:GLY:H	1.74	0.53
2:CN:69:TRP:HD1	2:CN:70:PRO:N	2.07	0.53
2:CO:218:ILE:O	2:CO:219:ASP:HB2	2.06	0.53
2:CR:27:GLN:HG3	2:CR:28:GLY:H	1.73	0.53
2:CR:195:VAL:C	2:CR:196:ILE:HG13	2.33	0.53
2:CS:202:LEU:HD11	2:CS:209:VAL:HG21	1.88	0.53
2:CX:195:VAL:C	2:CX:196:ILE:HG13	2.33	0.53
2:Cd:117:SER:OG	2:Cd:118:PHE:N	2.41	0.53
2:Ch:60:ARG:O	2:Ch:216:ALA:HB1	2.07	0.53
2:Co:195:VAL:C	2:Co:196:ILE:HG13	2.33	0.53
2:Cp:60:ARG:O	2:Cp:216:ALA:HB1	2.07	0.53
2:Cq:195:VAL:C	2:Cq:196:ILE:HG13	2.33	0.53
2:Ct:27:GLN:HG3	2:Ct:28:GLY:H	1.73	0.53
2:Cu:27:GLN:HG3	2:Cu:28:GLY:H	1.73	0.53
2:Cv:36:TYR:HE2	2:Cv:130:PRO:HG3	1.71	0.53
2:Cv:84:PRO:HG3	2:Cv:108:TRP:HH2	1.72	0.53
2:Cv:117:SER:OG	2:Cv:118:PHE:N	2.41	0.53
3:D1:48:LYS:HA	3:D1:210:ALA:HB3	1.90	0.53
3:D5:107:ASN:HA	3:D5:154:PHE:O	2.07	0.53
3:D6:56:ILE:HG13	3:D6:74:PHE:HE1	1.72	0.53
3:D7:90:VAL:HG11	3:D7:208:VAL:HG12	1.91	0.53
3:DA:90:VAL:HG11	3:DA:208:VAL:HG12	1.91	0.53
3:DS:101:ARG:HA	3:DS:160:TYR:HE2	1.73	0.53
3:DV:48:LYS:HA	3:DV:210:ALA:HB3	1.90	0.53
3:DZ:56:ILE:HG13	3:DZ:74:PHE:HE1	1.72	0.53
3:DZ:121:LEU:HD22	3:DZ:186:TYR:HB2	1.89	0.53
3:Dc:107:ASN:HA	3:Dc:154:PHE:O	2.08	0.53
3:De:48:LYS:HA	3:De:210:ALA:HB3	1.90	0.53
3:Df:107:ASN:HA	3:Df:154:PHE:O	2.08	0.53
3:Dj:107:ASN:HA	3:Dj:154:PHE:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dp:101:ARG:HA	3:Dp:160:TYR:HE2	1.73	0.53
3:EA:15:MET:HB3	3:EA:18:VAL:HG13	1.90	0.53
3:EB:48:LYS:HA	3:EB:210:ALA:HB3	1.90	0.53
3:EC:56:ILE:HG13	3:EC:74:PHE:HE1	1.72	0.53
3:ED:101:ARG:HA	3:ED:160:TYR:HE2	1.72	0.53
4:F9:28:GLN:O	4:F9:29:GLN:HG3	2.07	0.53
4:FA:25:PHE:HE1	4:FB:22:VAL:HB	1.72	0.53
4:FN:25:PHE:CE1	4:FO:22:VAL:HB	2.42	0.53
4:FW:25:PHE:HE1	4:FX:22:VAL:HB	1.72	0.53
4:Ff:25:PHE:CE1	4:Fg:22:VAL:HB	2.42	0.53
4:Fm:25:PHE:HE1	4:Fn:22:VAL:HB	1.72	0.53
4:Fr:25:PHE:CE1	4:Fs:22:VAL:HB	2.42	0.53
4:Ft:22:VAL:HB	4:Fx:25:PHE:HE1	1.72	0.53
1:A1:219:TYR:OH	3:D2:34:ARG:HD2	2.08	0.53
1:A5:221:PRO:CA	3:D6:40:PHE:HE2	2.21	0.53
1:AB:115:THR:OG1	1:AB:133:LEU:HB2	2.08	0.53
1:AC:48:LEU:HD21	1:AC:103:TRP:CZ3	2.43	0.53
1:AD:176:ALA:HB1	3:DE:174:ALA:O	2.07	0.53
1:AE:55:HIS:O	1:AE:194:SER:CB	2.56	0.53
1:AI:99:GLU:OE2	1:AI:101:PHE:HE1	1.92	0.53
1:AI:103:TRP:HB2	1:AI:198:THR:HG22	1.89	0.53
1:AJ:115:THR:OG1	1:AJ:133:LEU:HB2	2.08	0.53
1:AK:48:LEU:HD21	1:AK:103:TRP:CZ3	2.43	0.53
1:AM:19:LEU:HD12	3:DM:160:TYR:HB3	1.89	0.53
1:AO:48:LEU:HD21	1:AO:103:TRP:CZ3	2.43	0.53
1:AO:55:HIS:O	1:AO:194:SER:CB	2.56	0.53
1:AQ:115:THR:OG1	1:AQ:133:LEU:HB2	2.08	0.53
1:AQ:219:TYR:OH	3:DQ:34:ARG:HD2	2.08	0.53
1:AR:176:ALA:HB1	3:DS:174:ALA:O	2.07	0.53
1:AS:165:ARG:HD3	2:CT:182:PRO:HG3	1.90	0.53
1:AT:55:HIS:O	1:AT:194:SER:CB	2.56	0.53
1:AT:115:THR:OG1	1:AT:133:LEU:HB2	2.08	0.53
1:Ae:219:TYR:OH	3:Dg:34:ARG:HD2	2.08	0.53
1:Af:219:TYR:OH	3:Dh:34:ARG:HD2	2.08	0.53
1:Ah:181:LYS:HA	2:Cj:137:GLU:HG3	1.89	0.53
1:Ai:48:LEU:HD21	1:Ai:103:TRP:CZ3	2.43	0.53
1:Ak:165:ARG:HD3	2:Cm:182:PRO:HG3	1.90	0.53
1:Al:86:ILE:HD12	1:Al:86:ILE:H	1.72	0.53
1:Al:239:PHE:HD2	3:Dn:226:GLN:NE2	2.05	0.53
1:An:30:VAL:CG1	1:An:218:MET:HE3	2.34	0.53
1:An:99:GLU:OE2	1:An:101:PHE:HE1	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:212:ARG:HG2	1:BB:214:PRO:HD3	1.91	0.53
1:BF:115:THR:OG1	1:BF:133:LEU:HB2	2.08	0.53
1:BG:239:PHE:HD2	3:EC:226:GLN:NE2	2.05	0.53
1:BH:118:ALA:HB2	1:BH:132:GLN:NE2	2.23	0.53
1:BI:115:THR:OG1	1:BI:133:LEU:HB2	2.08	0.53
1:BI:118:ALA:HB2	1:BI:132:GLN:NE2	2.23	0.53
2:C3:27:GLN:HG3	2:C3:28:GLY:H	1.74	0.53
2:C5:60:ARG:O	2:C5:216:ALA:HB1	2.07	0.53
2:C7:27:GLN:HG3	2:C7:28:GLY:H	1.73	0.53
2:CA:36:TYR:HE2	2:CA:130:PRO:HG3	1.71	0.53
2:CC:117:SER:OG	2:CC:118:PHE:N	2.41	0.53
2:CD:36:TYR:CE2	2:CD:130:PRO:HG2	2.42	0.53
2:CD:195:VAL:C	2:CD:196:ILE:HG13	2.33	0.53
2:CD:218:ILE:O	2:CD:219:ASP:HB2	2.06	0.53
2:CF:27:GLN:HG3	2:CF:28:GLY:H	1.74	0.53
2:CH:195:VAL:C	2:CH:196:ILE:HG13	2.33	0.53
2:CJ:69:TRP:CZ3	2:CJ:124:LEU:CG	2.92	0.53
2:CL:69:TRP:HD1	2:CL:70:PRO:N	2.07	0.53
2:CP:225:PRO:HG2	3:DQ:141:CYS:HA	1.89	0.53
2:CT:117:SER:OG	2:CT:118:PHE:N	2.41	0.53
2:CU:209:VAL:N	2:CU:210:PRO:CD	2.68	0.53
2:CV:73:GLN:HA	2:CV:73:GLN:NE2	2.17	0.53
2:CV:195:VAL:C	2:CV:196:ILE:HG13	2.33	0.53
2:CX:84:PRO:HG3	2:CX:108:TRP:HH2	1.72	0.53
2:Cc:195:VAL:C	2:Cc:196:ILE:HG13	2.33	0.53
2:Cd:69:TRP:HD1	2:Cd:70:PRO:N	2.07	0.53
2:Cf:195:VAL:C	2:Cf:196:ILE:HG13	2.33	0.53
2:Cg:27:GLN:CG	2:Cg:28:GLY:N	2.70	0.53
2:Ch:195:VAL:C	2:Ch:196:ILE:HG13	2.33	0.53
2:Cj:27:GLN:HG3	2:Cj:28:GLY:H	1.73	0.53
2:Cj:209:VAL:N	2:Cj:210:PRO:CD	2.68	0.53
2:Cr:73:GLN:HA	2:Cr:73:GLN:NE2	2.17	0.53
2:Cs:27:GLN:HG3	2:Cs:28:GLY:H	1.73	0.53
3:D0:48:LYS:HA	3:D0:210:ALA:HB3	1.90	0.53
3:D0:90:VAL:HG11	3:D0:208:VAL:HG12	1.91	0.53
3:DD:107:ASN:HA	3:DD:154:PHE:O	2.07	0.53
3:DH:90:VAL:HG11	3:DH:208:VAL:HG12	1.91	0.53
3:DI:15:MET:HB3	3:DI:18:VAL:HG13	1.90	0.53
3:DQ:101:ARG:HA	3:DQ:160:TYR:HE2	1.73	0.53
3:DX:48:LYS:HA	3:DX:210:ALA:HB3	1.90	0.53
3:Di:15:MET:HB3	3:Di:18:VAL:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dn:48:LYS:HA	3:Dn:210:ALA:HB3	1.90	0.53
3:Dr:15:MET:HB3	3:Dr:18:VAL:HG13	1.90	0.53
3:Dr:48:LYS:HA	3:Dr:210:ALA:HB3	1.90	0.53
3:Dr:90:VAL:HG11	3:Dr:208:VAL:HG12	1.91	0.53
3:Ds:56:ILE:HG13	3:Ds:74:PHE:HE1	1.72	0.53
4:F7:28:GLN:O	4:F7:29:GLN:HG3	2.07	0.53
4:FW:28:GLN:O	4:FW:29:GLN:HG3	2.07	0.53
4:Fu:25:PHE:CE1	4:Fv:22:VAL:HB	2.42	0.53
4:Fv:25:PHE:HE1	4:Fw:22:VAL:HB	1.72	0.53
1:A0:55:HIS:O	1:A0:194:SER:CB	2.57	0.53
1:A0:181:LYS:HA	2:C1:137:GLU:HG3	1.89	0.53
1:A3:118:ALA:HB2	1:A3:132:GLN:NE2	2.23	0.53
1:A4:219:TYR:OH	3:D5:34:ARG:HD2	2.08	0.53
1:A6:115:THR:OG1	1:A6:133:LEU:HB2	2.08	0.53
1:A7:221:PRO:CA	3:D8:40:PHE:HE2	2.21	0.53
1:A9:221:PRO:CA	3:Da:40:PHE:HE2	2.21	0.53
1:AA:55:HIS:O	1:AA:194:SER:CB	2.56	0.53
1:AA:86:ILE:HD12	1:AA:86:ILE:H	1.73	0.53
1:AA:103:TRP:HB2	1:AA:198:THR:HG22	1.89	0.53
1:AA:212:ARG:HG2	1:AA:214:PRO:HD3	1.91	0.53
1:AC:165:ARG:HD3	2:CC:182:PRO:HG3	1.90	0.53
1:AG:219:TYR:OH	3:DG:34:ARG:HD2	2.08	0.53
1:AG:221:PRO:CA	3:DG:40:PHE:HE2	2.21	0.53
1:AJ:181:LYS:HA	2:CJ:137:GLU:HG3	1.89	0.53
1:AK:219:TYR:OH	3:DK:34:ARG:HD2	2.08	0.53
1:AM:48:LEU:HD21	1:AM:103:TRP:CZ3	2.43	0.53
1:AP:48:LEU:HD21	1:AP:103:TRP:CZ3	2.43	0.53
1:AR:103:TRP:HB2	1:AR:198:THR:HG22	1.90	0.53
1:AV:221:PRO:CA	3:DW:40:PHE:HE2	2.21	0.53
1:AW:221:PRO:CA	3:DX:40:PHE:HE2	2.21	0.53
1:AX:48:LEU:HD21	1:AX:103:TRP:CZ3	2.43	0.53
1:AY:99:GLU:OE2	1:AY:101:PHE:HE1	1.92	0.53
1:Ab:104:VAL:HG22	1:Ab:197:LEU:HD21	1.90	0.53
1:Ac:99:GLU:OE2	1:Ac:101:PHE:HE1	1.92	0.53
1:Ae:115:THR:OG1	1:Ae:133:LEU:HB2	2.08	0.53
1:Af:115:THR:OG1	1:Af:133:LEU:HB2	2.08	0.53
1:Af:157:SER:CB	3:Dh:24:PRO:HA	2.36	0.53
1:Aj:115:THR:OG1	1:Aj:133:LEU:HB2	2.08	0.53
1:Al:221:PRO:CA	3:Dn:40:PHE:HE2	2.21	0.53
1:Am:118:ALA:HB2	1:Am:132:GLN:NE2	2.23	0.53
1:Ao:186:TRP:O	1:Ao:187:LEU:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:48:LEU:HD21	1:BA:103:TRP:CZ3	2.43	0.53
1:BB:55:HIS:O	1:BB:194:SER:CB	2.56	0.53
1:BB:186:TRP:O	1:BB:187:LEU:HB3	2.09	0.53
1:BC:181:LYS:HA	2:Cr:137:GLU:HG3	1.89	0.53
1:BC:221:PRO:CA	3:Dr:40:PHE:HE2	2.21	0.53
1:BD:103:TRP:HB2	1:BD:198:THR:HG22	1.89	0.53
1:BE:115:THR:OG1	1:BE:133:LEU:HB2	2.08	0.53
1:BF:118:ALA:HB2	1:BF:132:GLN:NE2	2.23	0.53
1:BH:186:TRP:O	1:BH:187:LEU:HB3	2.09	0.53
2:C0:225:PRO:HG2	3:D1:141:CYS:HA	1.89	0.53
2:CB:69:TRP:HD1	2:CB:70:PRO:N	2.07	0.53
2:CD:115:ASN:HD22	3:D7:190:ALA:C	2.17	0.53
2:CD:226:LEU:CD2	3:DE:126:PRO:HG2	2.36	0.53
2:CE:27:GLN:HG3	2:CE:28:GLY:H	1.73	0.53
2:CE:60:ARG:O	2:CE:216:ALA:HB1	2.07	0.53
2:CE:195:VAL:C	2:CE:196:ILE:HG13	2.33	0.53
2:CF:195:VAL:C	2:CF:196:ILE:HG13	2.33	0.53
2:CK:226:LEU:CD2	3:DL:126:PRO:HG2	2.36	0.53
2:CM:27:GLN:HG3	2:CM:28:GLY:H	1.73	0.53
2:CR:117:SER:OG	2:CR:118:PHE:N	2.41	0.53
2:CU:117:SER:OG	2:CU:118:PHE:N	2.41	0.53
2:CU:195:VAL:C	2:CU:196:ILE:HG13	2.33	0.53
2:CW:117:SER:OG	2:CW:118:PHE:N	2.41	0.53
2:CX:69:TRP:CZ3	2:CX:124:LEU:CG	2.92	0.53
2:Ca:195:VAL:C	2:Ca:196:ILE:HG13	2.33	0.53
2:Cb:117:SER:OG	2:Cb:118:PHE:N	2.41	0.53
2:Cc:27:GLN:HG3	2:Cc:28:GLY:H	1.73	0.53
2:Cg:226:LEU:CD2	3:Dh:126:PRO:HG2	2.36	0.53
2:Cj:117:SER:OG	2:Cj:118:PHE:N	2.41	0.53
2:Ck:69:TRP:HD1	2:Ck:70:PRO:N	2.07	0.53
2:Cl:36:TYR:CE2	2:Cl:130:PRO:HG2	2.42	0.53
2:Cn:226:LEU:CD2	3:Dj:126:PRO:HG2	2.36	0.53
2:Ct:73:GLN:HA	2:Ct:73:GLN:NE2	2.17	0.53
2:Cv:69:TRP:HD1	2:Cv:70:PRO:N	2.07	0.53
2:Cw:27:GLN:HG3	2:Cw:28:GLY:H	1.73	0.53
3:D0:107:ASN:HA	3:D0:154:PHE:O	2.08	0.53
3:D7:121:LEU:HD22	3:D7:186:TYR:HB2	1.89	0.53
3:D8:101:ARG:HA	3:D8:160:TYR:HE2	1.72	0.53
3:DF:107:ASN:HA	3:DF:154:PHE:O	2.08	0.53
3:DG:107:ASN:HA	3:DG:154:PHE:O	2.08	0.53
3:DJ:56:ILE:HG13	3:DJ:74:PHE:HE1	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:90:VAL:HG11	3:DJ:208:VAL:HG12	1.91	0.53
3:DQ:48:LYS:HA	3:DQ:210:ALA:HB3	1.90	0.53
3:DT:101:ARG:HA	3:DT:160:TYR:HE2	1.73	0.53
3:DX:90:VAL:HG11	3:DX:208:VAL:HG12	1.91	0.53
3:Dc:48:LYS:HA	3:Dc:210:ALA:HB3	1.90	0.53
3:De:101:ARG:HA	3:De:160:TYR:HE2	1.72	0.53
3:Do:48:LYS:HA	3:Do:210:ALA:HB3	1.90	0.53
3:Dp:107:ASN:HA	3:Dp:154:PHE:O	2.08	0.53
4:F7:25:PHE:HE1	4:F8:22:VAL:HB	1.72	0.53
4:FC:25:PHE:HE1	4:FD:22:VAL:HB	1.72	0.53
4:FU:22:VAL:HB	4:FY:25:PHE:HE1	1.72	0.53
4:Fa:28:GLN:O	4:Fa:29:GLN:HG3	2.07	0.53
1:A1:48:LEU:HD21	1:A1:103:TRP:CZ3	2.43	0.53
1:A3:103:TRP:HB2	1:A3:198:THR:HG22	1.90	0.53
1:A4:55:HIS:O	1:A4:194:SER:CB	2.56	0.53
1:A7:55:HIS:O	1:A7:194:SER:CB	2.56	0.53
1:AE:212:ARG:HG2	1:AE:214:PRO:HD3	1.91	0.53
1:AF:221:PRO:CA	3:DF:40:PHE:HE2	2.21	0.53
1:AG:212:ARG:HG2	1:AG:214:PRO:HD3	1.91	0.53
1:AJ:212:ARG:HG2	1:AJ:214:PRO:HD3	1.91	0.53
1:AK:19:LEU:HD12	3:DK:160:TYR:HB3	1.89	0.53
1:AK:165:ARG:HD3	2:CK:182:PRO:HG3	1.90	0.53
1:AL:165:ARG:HD3	2:CL:182:PRO:HG3	1.90	0.53
1:AL:165:ARG:HB2	3:DL:33:PRO:O	2.07	0.53
1:AL:186:TRP:O	1:AL:187:LEU:HB3	2.09	0.53
1:AM:219:TYR:OH	3:DM:34:ARG:HD2	2.08	0.53
1:AO:219:TYR:OH	3:DO:34:ARG:HD2	2.08	0.53
1:AP:86:ILE:HD12	1:AP:86:ILE:H	1.73	0.53
1:AQ:186:TRP:O	1:AQ:187:LEU:HB3	2.09	0.53
1:AR:118:ALA:HB2	1:AR:132:GLN:NE2	2.23	0.53
1:AS:48:LEU:HD21	1:AS:103:TRP:CZ3	2.43	0.53
1:AS:181:LYS:HA	2:CT:137:GLU:HG3	1.89	0.53
1:AT:186:TRP:O	1:AT:187:LEU:HB3	2.09	0.53
1:AT:221:PRO:CA	3:DU:40:PHE:HE2	2.21	0.53
1:AU:165:ARG:HD3	2:CV:182:PRO:HG3	1.90	0.53
1:AV:55:HIS:O	1:AV:194:SER:CB	2.56	0.53
1:AW:55:HIS:O	1:AW:194:SER:CB	2.57	0.53
1:AW:165:ARG:HD3	2:CX:182:PRO:HG3	1.90	0.53
1:AW:212:ARG:HG2	1:AW:214:PRO:HD3	1.91	0.53
1:AX:104:VAL:HG22	1:AX:197:LEU:HD21	1.90	0.53
1:AX:212:ARG:HG2	1:AX:214:PRO:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:115:THR:OG1	1:AY:133:LEU:HB2	2.08	0.53
1:Aa:55:HIS:O	1:Aa:194:SER:CB	2.56	0.53
1:Ac:115:THR:OG1	1:Ac:133:LEU:HB2	2.08	0.53
1:Ac:118:ALA:HB2	1:Ac:132:GLN:NE2	2.23	0.53
1:Ac:181:LYS:HA	2:Ce:137:GLU:HG3	1.89	0.53
1:Ac:186:TRP:O	1:Ac:187:LEU:HB3	2.09	0.53
1:Ac:239:PHE:HD2	3:De:226:GLN:NE2	2.05	0.53
1:Ae:103:TRP:HB2	1:Ae:198:THR:HG22	1.89	0.53
1:Ah:103:TRP:HB2	1:Ah:198:THR:HG22	1.90	0.53
1:Ah:165:ARG:HD3	2:Cj:182:PRO:HG3	1.90	0.53
1:Aj:19:LEU:HD12	3:Di:160:TYR:HB3	1.89	0.53
1:Aj:99:GLU:OE2	1:Aj:101:PHE:HE1	1.92	0.53
1:Am:212:ARG:HG2	1:Am:214:PRO:HD3	1.91	0.53
1:BB:219:TYR:OH	3:Dq:34:ARG:HD2	2.08	0.53
1:BC:239:PHE:HD2	3:Dr:226:GLN:NE2	2.05	0.53
1:BD:104:VAL:HG22	1:BD:197:LEU:HD21	1.90	0.53
1:BE:186:TRP:O	1:BE:187:LEU:HB3	2.09	0.53
1:BF:48:LEU:HD21	1:BF:103:TRP:CZ3	2.43	0.53
1:BF:103:TRP:HB2	1:BF:198:THR:HG22	1.89	0.53
1:BF:186:TRP:O	1:BF:187:LEU:HB3	2.09	0.53
1:BG:103:TRP:HB2	1:BG:198:THR:HG22	1.89	0.53
1:BH:99:GLU:OE2	1:BH:101:PHE:HE1	1.92	0.53
1:BH:157:SER:CB	3:ED:24:PRO:HA	2.36	0.53
1:BI:104:VAL:HG22	1:BI:197:LEU:HD21	1.90	0.53
2:C2:226:LEU:CD2	3:D3:126:PRO:HG2	2.36	0.53
2:C6:69:TRP:HD1	2:C6:70:PRO:N	2.07	0.53
2:C7:69:TRP:HD1	2:C7:70:PRO:N	2.07	0.53
2:CH:69:TRP:CZ3	2:CH:124:LEU:CG	2.92	0.53
2:CH:115:ASN:HD22	3:Ds:190:ALA:C	2.17	0.53
2:CI:69:TRP:CZ3	2:CI:124:LEU:CG	2.92	0.53
2:CL:69:TRP:CZ3	2:CL:124:LEU:CG	2.92	0.53
2:CL:69:TRP:CH2	2:CL:124:LEU:HG	2.42	0.53
2:CM:115:ASN:HD22	3:Di:190:ALA:C	2.17	0.53
2:CN:69:TRP:CZ3	2:CN:124:LEU:CG	2.92	0.53
2:CO:69:TRP:CZ3	2:CO:124:LEU:CG	2.92	0.53
2:CO:115:ASN:HD22	3:DP:190:ALA:C	2.17	0.53
2:CV:27:GLN:HG3	2:CV:28:GLY:H	1.73	0.53
2:CV:69:TRP:CZ3	2:CV:124:LEU:CG	2.92	0.53
2:CV:115:ASN:HD22	3:DB:190:ALA:C	2.17	0.53
2:CV:225:PRO:HG2	3:DW:141:CYS:HA	1.89	0.53
2:CW:69:TRP:CZ3	2:CW:124:LEU:CG	2.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:226:LEU:CD2	3:DX:126:PRO:HG2	2.36	0.53
2:CX:117:SER:OG	2:CX:118:PHE:N	2.41	0.53
2:CZ:69:TRP:HD1	2:CZ:70:PRO:N	2.07	0.53
2:Cc:228:ASN:ND2	3:Dd:140:ALA:HB2	2.24	0.53
2:Ce:69:TRP:HD1	2:Ce:70:PRO:N	2.07	0.53
2:Ce:73:GLN:HA	2:Ce:73:GLN:NE2	2.17	0.53
2:Ci:195:VAL:C	2:Ci:196:ILE:HG13	2.33	0.53
2:Cl:69:TRP:HD1	2:Cl:70:PRO:N	2.07	0.53
2:Cl:228:ASN:ND2	3:Dm:140:ALA:HB2	2.24	0.53
2:Cn:225:PRO:HG2	3:Dj:141:CYS:HA	1.89	0.53
2:Cp:69:TRP:HD1	2:Cp:70:PRO:N	2.07	0.53
2:Cr:69:TRP:CZ3	2:Cr:124:LEU:CG	2.92	0.53
2:Cu:69:TRP:HD1	2:Cu:70:PRO:N	2.07	0.53
2:Cu:73:GLN:HA	2:Cu:73:GLN:NE2	2.17	0.53
2:Cw:69:TRP:CZ3	2:Cw:124:LEU:CG	2.92	0.53
2:Cw:117:SER:OG	2:Cw:118:PHE:N	2.41	0.53
2:Cx:69:TRP:CZ3	2:Cx:124:LEU:CG	2.92	0.53
3:D2:145:VAL:HG22	3:D2:188:LEU:HD12	1.91	0.53
3:D3:48:LYS:HA	3:D3:210:ALA:HB3	1.90	0.53
3:D4:145:VAL:HG22	3:D4:188:LEU:HD12	1.91	0.53
3:DB:101:ARG:HA	3:DB:160:TYR:HE2	1.73	0.53
3:DC:90:VAL:HG11	3:DC:208:VAL:HG12	1.91	0.53
3:DG:15:MET:HB3	3:DG:18:VAL:HG13	1.90	0.53
3:DI:90:VAL:HG11	3:DI:208:VAL:HG12	1.91	0.53
3:DN:48:LYS:HA	3:DN:210:ALA:HB3	1.90	0.53
3:DO:101:ARG:HA	3:DO:160:TYR:HE2	1.73	0.53
3:DR:48:LYS:HA	3:DR:210:ALA:HB3	1.90	0.53
3:DR:90:VAL:HG11	3:DR:208:VAL:HG12	1.91	0.53
3:DU:145:VAL:HG22	3:DU:188:LEU:HD12	1.91	0.53
3:DV:90:VAL:HG11	3:DV:208:VAL:HG12	1.91	0.53
3:De:15:MET:HB3	3:De:18:VAL:HG13	1.90	0.53
3:Di:145:VAL:HG22	3:Di:188:LEU:HD12	1.91	0.53
3:Dl:107:ASN:HA	3:Dl:154:PHE:O	2.07	0.53
3:Do:101:ARG:HA	3:Do:160:TYR:HE2	1.72	0.53
4:F4:22:VAL:HB	4:F8:25:PHE:HE1	1.72	0.53
4:FQ:25:PHE:CE1	4:FR:22:VAL:HB	2.42	0.53
1:A2:86:ILE:HD12	1:A2:86:ILE:H	1.72	0.53
1:A2:104:VAL:HG22	1:A2:197:LEU:HD21	1.90	0.53
1:A2:212:ARG:HG2	1:A2:214:PRO:HD3	1.91	0.53
1:A2:221:PRO:CA	3:D3:40:PHE:HE2	2.21	0.53
1:A3:206:GLY:HA3	1:A7:121:LEU:CD2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:212:ARG:HG2	1:A3:214:PRO:HD3	1.91	0.53
1:A4:165:ARG:HD3	2:C5:182:PRO:HG3	1.90	0.53
1:A4:212:ARG:HG2	1:A4:214:PRO:HD3	1.91	0.53
1:A5:165:ARG:HD3	2:C6:182:PRO:HG3	1.90	0.53
1:A6:176:ALA:HB1	3:D8:174:ALA:O	2.07	0.53
1:A6:219:TYR:OH	3:D7:34:ARG:HD2	2.08	0.53
1:A9:99:GLU:OE2	1:A9:101:PHE:HE1	1.92	0.53
1:A9:186:TRP:O	1:A9:187:LEU:HB3	2.09	0.53
1:A9:219:TYR:OH	3:Da:34:ARG:HD2	2.08	0.53
1:AA:48:LEU:HD21	1:AA:103:TRP:CE3	2.44	0.53
1:AB:186:TRP:O	1:AB:187:LEU:HB3	2.09	0.53
1:AD:99:GLU:OE2	1:AD:101:PHE:HE1	1.92	0.53
1:AE:99:GLU:OE2	1:AE:101:PHE:HE1	1.92	0.53
1:AF:212:ARG:HG2	1:AF:214:PRO:HD3	1.91	0.53
1:AL:55:HIS:O	1:AL:194:SER:CB	2.56	0.53
1:AM:118:ALA:HB2	1:AM:132:GLN:NE2	2.23	0.53
1:AP:99:GLU:OE2	1:AP:101:PHE:HE1	1.92	0.53
1:AP:103:TRP:HB2	1:AP:198:THR:HG22	1.89	0.53
1:AQ:30:VAL:CG1	1:AQ:218:MET:HE3	2.34	0.53
1:AR:48:LEU:HD21	1:AR:103:TRP:CZ3	2.43	0.53
1:AR:104:VAL:HG22	1:AR:197:LEU:HD21	1.90	0.53
1:AR:165:ARG:HD3	2:CR:182:PRO:HG3	1.90	0.53
1:AS:99:GLU:OE2	1:AS:101:PHE:HE1	1.92	0.53
1:AS:104:VAL:HG22	1:AS:197:LEU:HD21	1.90	0.53
1:AU:103:TRP:HB2	1:AU:198:THR:HG22	1.89	0.53
1:AV:48:LEU:HD21	1:AV:103:TRP:CE3	2.44	0.53
1:AY:212:ARG:O	1:AY:214:PRO:HD2	2.09	0.53
1:Ab:55:HIS:O	1:Ab:194:SER:CB	2.56	0.53
1:Ab:118:ALA:HB2	1:Ab:132:GLN:NE2	2.23	0.53
1:Ac:48:LEU:HD21	1:Ac:103:TRP:CZ3	2.43	0.53
1:Ac:55:HIS:O	1:Ac:194:SER:CB	2.56	0.53
1:Ad:219:TYR:OH	3:Df:34:ARG:HD2	2.08	0.53
1:Ae:109:VAL:HG23	1:Ae:161:THR:OG1	2.09	0.53
1:Af:48:LEU:HD21	1:Af:103:TRP:CZ3	2.43	0.53
1:Ag:55:HIS:O	1:Ag:194:SER:CB	2.57	0.53
1:Ag:219:TYR:OH	3:Di:34:ARG:HD2	2.08	0.53
1:Ah:157:SER:CB	3:Dj:24:PRO:HA	2.36	0.53
1:Ah:186:TRP:O	1:Ah:187:LEU:HB3	2.09	0.53
1:Aj:55:HIS:O	1:Aj:194:SER:CB	2.56	0.53
1:Ak:48:LEU:HD21	1:Ak:103:TRP:CZ3	2.43	0.53
1:Ak:55:HIS:O	1:Ak:194:SER:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:86:ILE:HD12	1:Ak:86:ILE:H	1.73	0.53
1:Al:109:VAL:HG23	1:Al:161:THR:OG1	2.09	0.53
1:Al:176:ALA:HB1	3:Dj:174:ALA:O	2.07	0.53
1:Al:212:ARG:HG2	1:Al:214:PRO:HD3	1.91	0.53
1:An:48:LEU:HD21	1:An:103:TRP:CZ3	2.43	0.53
1:BA:48:LEU:HD21	1:BA:103:TRP:CE3	2.44	0.53
1:BE:104:VAL:HG22	1:BE:197:LEU:HD21	1.90	0.53
1:BE:212:ARG:HG2	1:BE:214:PRO:HD3	1.91	0.53
1:BF:181:LYS:HA	2:Cu:137:GLU:HG3	1.89	0.53
1:BH:212:ARG:HG2	1:BH:214:PRO:HD3	1.91	0.53
1:BI:48:LEU:HD21	1:BI:103:TRP:CZ3	2.43	0.53
1:BI:165:ARG:HD3	2:Cx:182:PRO:HG3	1.90	0.53
1:BI:181:LYS:HA	2:Cx:137:GLU:HG3	1.90	0.53
1:BI:219:TYR:OH	3:EE:34:ARG:HD2	2.08	0.53
2:C0:228:ASN:ND2	3:D1:140:ALA:HB2	2.24	0.53
2:C1:195:VAL:C	2:C1:196:ILE:HG13	2.33	0.53
2:C1:228:ASN:ND2	3:D2:140:ALA:HB2	2.24	0.53
2:C6:228:ASN:ND2	3:D7:140:ALA:HB2	2.24	0.53
2:C9:84:PRO:HG3	2:C9:108:TRP:HH2	1.72	0.53
2:CA:69:TRP:HD1	2:CA:70:PRO:N	2.07	0.53
2:CA:195:VAL:C	2:CA:196:ILE:HG13	2.33	0.53
2:CC:73:GLN:HA	2:CC:73:GLN:NE2	2.17	0.53
2:CD:69:TRP:HD1	2:CD:70:PRO:N	2.07	0.53
2:CH:228:ASN:ND2	3:DI:140:ALA:HB2	2.24	0.53
2:CL:27:GLN:CG	2:CL:28:GLY:N	2.70	0.53
2:CM:69:TRP:HD1	2:CM:70:PRO:N	2.07	0.53
2:CO:195:VAL:C	2:CO:196:ILE:HG13	2.33	0.53
2:CQ:27:GLN:HG3	2:CQ:28:GLY:H	1.73	0.53
2:CT:115:ASN:HD22	3:DK:190:ALA:C	2.17	0.53
2:CW:27:GLN:HG3	2:CW:28:GLY:H	1.74	0.53
2:CX:27:GLN:HG3	2:CX:28:GLY:H	1.73	0.53
2:CX:228:ASN:ND2	3:DY:140:ALA:HB2	2.24	0.53
2:CY:69:TRP:HD1	2:CY:70:PRO:N	2.07	0.53
2:CY:209:VAL:N	2:CY:210:PRO:CD	2.68	0.53
2:CZ:225:PRO:HG2	3:D0:141:CYS:HA	1.89	0.53
2:CZ:228:ASN:ND2	3:D0:140:ALA:HB2	2.24	0.53
2:Cb:69:TRP:CZ3	2:Cb:124:LEU:CG	2.92	0.53
2:Cg:27:GLN:HG3	2:Cg:28:GLY:H	1.73	0.53
2:Cg:228:ASN:ND2	3:Dh:140:ALA:HB2	2.24	0.53
2:Ch:69:TRP:CH2	2:Ch:124:LEU:HG	2.42	0.53
2:Cj:228:ASN:ND2	3:Dk:140:ALA:HB2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cl:69:TRP:CZ3	2:Cl:124:LEU:CG	2.92	0.53
2:Cm:69:TRP:CZ3	2:Cm:124:LEU:CG	2.92	0.53
2:Cq:27:GLN:HG3	2:Cq:28:GLY:H	1.73	0.53
2:Cq:69:TRP:HD1	2:Cq:70:PRO:N	2.07	0.53
2:Cr:69:TRP:HD1	2:Cr:70:PRO:N	2.07	0.53
2:Cr:115:ASN:HD22	3:DI:190:ALA:C	2.17	0.53
2:Cv:69:TRP:CZ3	2:Cv:124:LEU:CG	2.92	0.53
3:D1:90:VAL:HG11	3:D1:208:VAL:HG12	1.91	0.53
3:D3:145:VAL:HG22	3:D3:188:LEU:HD12	1.91	0.53
3:D4:48:LYS:HA	3:D4:210:ALA:HB3	1.90	0.53
3:DD:101:ARG:HA	3:DD:160:TYR:HE2	1.73	0.53
3:DG:145:VAL:HG22	3:DG:188:LEU:HD12	1.91	0.53
3:DH:56:ILE:HG13	3:DH:74:PHE:HE1	1.72	0.53
3:DI:48:LYS:HA	3:DI:210:ALA:HB3	1.90	0.53
3:DK:169:VAL:O	3:DK:169:VAL:HG12	2.09	0.53
3:DM:145:VAL:HG22	3:DM:188:LEU:HD12	1.91	0.53
3:DO:107:ASN:HA	3:DO:154:PHE:O	2.07	0.53
3:DP:145:VAL:HG22	3:DP:188:LEU:HD12	1.91	0.53
3:DR:169:VAL:O	3:DR:169:VAL:HG12	2.09	0.53
3:DX:101:ARG:HA	3:DX:160:TYR:HE2	1.73	0.53
3:Da:145:VAL:HG22	3:Da:188:LEU:HD12	1.91	0.53
3:Da:169:VAL:O	3:Da:169:VAL:HG12	2.09	0.53
3:Dg:48:LYS:HA	3:Dg:210:ALA:HB3	1.90	0.53
3:Di:90:VAL:HG11	3:Di:208:VAL:HG12	1.91	0.53
3:Dm:15:MET:HB3	3:Dm:18:VAL:HG13	1.90	0.53
3:Dn:56:ILE:HG13	3:Dn:74:PHE:HE1	1.72	0.53
3:Dn:169:VAL:O	3:Dn:169:VAL:HG12	2.09	0.53
3:Do:90:VAL:HG11	3:Do:208:VAL:HG12	1.91	0.53
3:Do:169:VAL:HG12	3:Do:169:VAL:O	2.09	0.53
3:Dq:107:ASN:HA	3:Dq:154:PHE:O	2.08	0.53
3:Ds:90:VAL:HG11	3:Ds:208:VAL:HG12	1.91	0.53
3:EC:145:VAL:HG22	3:EC:188:LEU:HD12	1.91	0.53
3:EE:101:ARG:HA	3:EE:160:TYR:HE2	1.73	0.53
3:EE:145:VAL:HG22	3:EE:188:LEU:HD12	1.91	0.53
4:FQ:25:PHE:HE1	4:FR:22:VAL:HB	1.73	0.53
1:A0:99:GLU:OE2	1:A0:101:PHE:HE1	1.92	0.53
1:A0:118:ALA:HB2	1:A0:132:GLN:NE2	2.23	0.53
1:A2:48:LEU:HD21	1:A2:103:TRP:CZ3	2.43	0.53
1:A3:48:LEU:HD21	1:A3:103:TRP:CZ3	2.43	0.53
1:A3:121:LEU:CD2	1:A4:206:GLY:HA3	2.39	0.53
1:A3:212:ARG:O	1:A3:214:PRO:HD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:48:LEU:HD21	1:A5:103:TRP:CZ3	2.43	0.53
1:A5:99:GLU:OE2	1:A5:101:PHE:HE1	1.92	0.53
1:A6:48:LEU:HD21	1:A6:103:TRP:CE3	2.44	0.53
1:A7:86:ILE:HD12	1:A7:86:ILE:H	1.73	0.53
1:A7:104:VAL:HG22	1:A7:197:LEU:HD21	1.90	0.53
1:AA:165:ARG:HD3	2:CA:182:PRO:HG3	1.90	0.53
1:AC:186:TRP:O	1:AC:187:LEU:HB3	2.09	0.53
1:AD:48:LEU:HD21	1:AD:103:TRP:CE3	2.44	0.53
1:AD:103:TRP:HB2	1:AD:198:THR:HG22	1.90	0.53
1:AF:48:LEU:HD21	1:AF:103:TRP:CZ3	2.43	0.53
1:AF:109:VAL:HG23	1:AF:161:THR:OG1	2.09	0.53
1:AF:165:ARG:HD3	2:CF:182:PRO:HG3	1.90	0.53
1:AG:99:GLU:OE2	1:AG:101:PHE:HE1	1.92	0.53
1:AH:109:VAL:HG23	1:AH:161:THR:OG1	2.09	0.53
1:AI:55:HIS:O	1:AI:194:SER:CB	2.57	0.53
1:AI:109:VAL:HG23	1:AI:161:THR:OG1	2.09	0.53
1:AJ:55:HIS:O	1:AJ:194:SER:CB	2.57	0.53
1:AL:99:GLU:OE2	1:AL:101:PHE:HE1	1.92	0.53
1:AM:165:ARG:HD3	2:CM:182:PRO:HG3	1.90	0.53
1:AN:55:HIS:O	1:AN:194:SER:CB	2.56	0.53
1:AN:186:TRP:O	1:AN:187:LEU:HB3	2.09	0.53
1:AP:48:LEU:HD21	1:AP:103:TRP:CE3	2.44	0.53
1:AR:221:PRO:CA	3:DR:40:PHE:HE2	2.21	0.53
1:AT:206:GLY:HA3	1:AX:121:LEU:CD2	2.39	0.53
1:AU:212:ARG:O	1:AU:214:PRO:HD2	2.09	0.53
1:AW:103:TRP:HB2	1:AW:198:THR:HG22	1.89	0.53
1:AY:109:VAL:HG23	1:AY:161:THR:OG1	2.09	0.53
1:AZ:30:VAL:CG1	1:AZ:218:MET:HE3	2.34	0.53
1:AZ:55:HIS:O	1:AZ:194:SER:CB	2.56	0.53
1:Aa:206:GLY:HA3	1:An:121:LEU:CD2	2.39	0.53
1:Ad:55:HIS:O	1:Ad:194:SER:CB	2.56	0.53
1:Ad:115:THR:OG1	1:Ad:133:LEU:HB2	2.08	0.53
1:Ad:212:ARG:HG2	1:Ad:214:PRO:HD3	1.91	0.53
1:Ae:121:LEU:CD2	1:Af:206:GLY:HA3	2.39	0.53
1:Ae:239:PHE:CD1	3:Dg:170:TYR:CD2	2.96	0.53
1:Af:165:ARG:HD3	2:Ch:182:PRO:HG3	1.90	0.53
1:Ag:212:ARG:HG2	1:Ag:214:PRO:HD3	1.91	0.53
1:Ah:48:LEU:HD21	1:Ah:103:TRP:CE3	2.44	0.53
1:Ah:55:HIS:O	1:Ah:194:SER:CB	2.56	0.53
1:Ah:86:ILE:HD12	1:Ah:86:ILE:H	1.73	0.53
1:Ah:212:ARG:O	1:Ah:214:PRO:HD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:99:GLU:OE2	1:Ai:101:PHE:HE1	1.92	0.53
1:Al:19:LEU:HD12	3:Dn:160:TYR:HB3	1.88	0.53
1:Al:48:LEU:HD21	1:Al:103:TRP:CZ3	2.43	0.53
1:Al:157:SER:CB	3:Dn:24:PRO:HA	2.36	0.53
1:Al:165:ARG:HD3	2:Cn:182:PRO:HG3	1.90	0.53
1:BA:55:HIS:O	1:BA:194:SER:CB	2.57	0.53
1:BA:118:ALA:HB2	1:BA:132:GLN:NE2	2.23	0.53
1:BA:181:LYS:HA	2:Cp:137:GLU:HG3	1.89	0.53
1:BB:103:TRP:HB2	1:BB:198:THR:HG22	1.89	0.53
1:BB:212:ARG:O	1:BB:214:PRO:HD2	2.09	0.53
1:BC:48:LEU:HD21	1:BC:103:TRP:CE3	2.44	0.53
1:BC:212:ARG:HG2	1:BC:214:PRO:HD3	1.91	0.53
1:BD:109:VAL:HG23	1:BD:161:THR:OG1	2.09	0.53
1:BD:165:ARG:HD3	2:Cs:182:PRO:HG3	1.90	0.53
1:BD:181:LYS:HA	2:Cs:137:GLU:HG3	1.89	0.53
1:BD:186:TRP:O	1:BD:187:LEU:HB3	2.09	0.53
1:BD:212:ARG:HG2	1:BD:214:PRO:HD3	1.91	0.53
1:BE:48:LEU:HD21	1:BE:103:TRP:CE3	2.44	0.53
1:BE:55:HIS:O	1:BE:194:SER:CB	2.56	0.53
1:BE:103:TRP:HB2	1:BE:198:THR:HG22	1.89	0.53
1:BE:109:VAL:HG23	1:BE:161:THR:OG1	2.09	0.53
1:BE:118:ALA:HB2	1:BE:132:GLN:NE2	2.23	0.53
1:BE:165:ARG:HD3	2:Ct:182:PRO:HG3	1.90	0.53
1:BE:212:ARG:O	1:BE:214:PRO:HD2	2.09	0.53
1:BH:48:LEU:HD21	1:BH:103:TRP:CZ3	2.43	0.53
1:BH:165:ARG:HD3	2:Cw:182:PRO:HG3	1.90	0.53
1:BI:99:GLU:OE2	1:BI:101:PHE:HE1	1.92	0.53
1:BI:109:VAL:HG23	1:BI:161:THR:OG1	2.09	0.53
2:C0:69:TRP:HD1	2:C0:70:PRO:N	2.07	0.53
2:C3:80:ILE:HG23	2:C3:82:PRO:HD3	1.91	0.53
2:C7:228:ASN:ND2	3:D8:140:ALA:HB2	2.24	0.53
2:C8:27:GLN:HG3	2:C8:28:GLY:H	1.74	0.53
2:CA:27:GLN:CG	2:CA:28:GLY:N	2.70	0.53
2:CF:226:LEU:CD2	3:DG:126:PRO:HG2	2.36	0.53
2:CI:228:ASN:ND2	3:DJ:140:ALA:HB2	2.24	0.53
2:CK:195:VAL:C	2:CK:196:ILE:HG13	2.33	0.53
2:CK:228:ASN:ND2	3:DL:140:ALA:HB2	2.24	0.53
2:CO:27:GLN:HG3	2:CO:28:GLY:H	1.73	0.53
2:CR:69:TRP:HD1	2:CR:70:PRO:N	2.07	0.53
2:CS:195:VAL:C	2:CS:196:ILE:HG13	2.33	0.53
2:CT:228:ASN:ND2	3:DP:140:ALA:HB2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:117:SER:OG	2:CV:118:PHE:N	2.41	0.53
2:CW:195:VAL:C	2:CW:196:ILE:HG13	2.33	0.53
2:CZ:195:VAL:C	2:CZ:196:ILE:HG13	2.33	0.53
2:Ca:228:ASN:ND2	3:Db:140:ALA:HB2	2.24	0.53
2:Ci:117:SER:OG	2:Ci:118:PHE:N	2.41	0.53
2:Cj:69:TRP:CZ3	2:Cj:124:LEU:CG	2.92	0.53
2:Cj:226:LEU:CD2	3:Dk:126:PRO:HG2	2.36	0.53
2:Cn:195:VAL:C	2:Cn:196:ILE:HG13	2.33	0.53
2:Co:117:SER:OG	2:Co:118:PHE:N	2.41	0.53
2:Cv:73:GLN:HA	2:Cv:73:GLN:NE2	2.17	0.53
2:Cw:115:ASN:HD22	3:DS:190:ALA:C	2.17	0.53
2:Cx:117:SER:OG	2:Cx:118:PHE:N	2.41	0.53
3:D1:169:VAL:O	3:D1:169:VAL:HG12	2.09	0.53
3:D5:108:PHE:HA	3:D5:205:LEU:O	2.09	0.53
3:D5:145:VAL:HG22	3:D5:188:LEU:HD12	1.91	0.53
3:D8:48:LYS:HA	3:D8:210:ALA:HB3	1.90	0.53
3:D8:145:VAL:HG22	3:D8:188:LEU:HD12	1.91	0.53
3:DA:145:VAL:HG22	3:DA:188:LEU:HD12	1.91	0.53
3:DJ:169:VAL:O	3:DJ:169:VAL:HG12	2.09	0.53
3:DP:101:ARG:HA	3:DP:160:TYR:HE2	1.73	0.53
3:DP:107:ASN:HA	3:DP:154:PHE:O	2.08	0.53
3:DW:15:MET:HB3	3:DW:18:VAL:HG13	1.90	0.53
3:DZ:145:VAL:HG22	3:DZ:188:LEU:HD12	1.91	0.53
3:Dd:145:VAL:HG22	3:Dd:188:LEU:HD12	1.91	0.53
3:Df:145:VAL:HG22	3:Df:188:LEU:HD12	1.91	0.53
3:Dh:48:LYS:HA	3:Dh:210:ALA:HB3	1.90	0.53
3:Dh:169:VAL:O	3:Dh:169:VAL:HG12	2.09	0.53
3:Dq:48:LYS:HA	3:Dq:210:ALA:HB3	1.90	0.53
3:Dr:145:VAL:HG22	3:Dr:188:LEU:HD12	1.91	0.53
3:EA:108:PHE:HA	3:EA:205:LEU:O	2.09	0.53
3:EA:145:VAL:HG22	3:EA:188:LEU:HD12	1.91	0.53
3:ED:90:VAL:HG11	3:ED:208:VAL:HG12	1.91	0.53
3:ED:145:VAL:HG22	3:ED:188:LEU:HD12	1.91	0.53
4:FM:25:PHE:CE1	4:FN:22:VAL:HB	2.42	0.53
1:A0:221:PRO:CA	3:D1:40:PHE:HE2	2.21	0.53
1:A2:55:HIS:O	1:A2:194:SER:CB	2.56	0.53
1:A4:48:LEU:HD21	1:A4:103:TRP:CE3	2.44	0.53
1:A4:121:LEU:CD2	1:A5:206:GLY:HA3	2.39	0.53
1:A6:121:LEU:CD2	1:A7:206:GLY:HA3	2.39	0.53
1:A8:109:VAL:HG23	1:A8:161:THR:OG1	2.09	0.53
1:A8:165:ARG:HD3	2:C9:182:PRO:HG3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:55:HIS:O	1:A9:194:SER:CB	2.56	0.53
1:A9:212:ARG:HG2	1:A9:214:PRO:HD3	1.91	0.53
1:AB:55:HIS:O	1:AB:194:SER:CB	2.56	0.53
1:AB:219:TYR:OH	3:DB:34:ARG:HD2	2.08	0.53
1:AC:55:HIS:O	1:AC:194:SER:CB	2.56	0.53
1:AD:104:VAL:HG22	1:AD:197:LEU:HD21	1.90	0.53
1:AD:219:TYR:OH	3:DD:34:ARG:HD2	2.08	0.53
1:AD:221:PRO:CA	3:DD:40:PHE:HE2	2.21	0.53
1:AE:118:ALA:HB2	1:AE:132:GLN:NE2	2.23	0.53
1:AE:219:TYR:OH	3:DE:34:ARG:HD2	2.08	0.53
1:AH:121:LEU:CD2	1:AI:206:GLY:HA3	2.39	0.53
1:AI:219:TYR:OH	3:DI:34:ARG:HD2	2.08	0.53
1:AJ:157:SER:CB	3:DJ:24:PRO:HA	2.35	0.53
1:AK:55:HIS:O	1:AK:194:SER:CB	2.56	0.53
1:AK:212:ARG:O	1:AK:214:PRO:HD2	2.09	0.53
1:AK:239:PHE:CD1	3:DK:170:TYR:CD2	2.96	0.53
1:AM:103:TRP:HB2	1:AM:198:THR:HG22	1.90	0.53
1:AN:109:VAL:HG23	1:AN:161:THR:OG1	2.09	0.53
1:AO:165:ARG:HD3	2:CO:182:PRO:HG3	1.90	0.53
1:AO:239:PHE:CD1	3:DO:170:TYR:CD2	2.96	0.53
1:AP:109:VAL:HG23	1:AP:161:THR:OG1	2.09	0.53
1:AP:219:TYR:OH	3:DP:34:ARG:HD2	2.08	0.53
1:AQ:48:LEU:HD21	1:AQ:103:TRP:CZ3	2.43	0.53
1:AQ:109:VAL:HG23	1:AQ:161:THR:OG1	2.09	0.53
1:AR:212:ARG:HG2	1:AR:214:PRO:HD3	1.91	0.53
1:AS:186:TRP:O	1:AS:187:LEU:HB3	2.09	0.53
1:AT:109:VAL:H	1:AT:161:THR:HB	1.74	0.53
1:AU:212:ARG:HG2	1:AU:214:PRO:HD3	1.91	0.53
1:AV:103:TRP:HB2	1:AV:198:THR:HG22	1.89	0.53
1:AY:48:LEU:HD21	1:AY:103:TRP:CE3	2.44	0.53
1:AY:55:HIS:O	1:AY:194:SER:CB	2.56	0.53
1:AY:165:ARG:HD3	2:CZ:182:PRO:HG3	1.90	0.53
1:AZ:104:VAL:HG22	1:AZ:197:LEU:HD21	1.90	0.53
1:AZ:176:ALA:HB1	3:D1:174:ALA:O	2.07	0.53
1:Aa:48:LEU:HD21	1:Aa:103:TRP:CE3	2.44	0.53
1:Ab:48:LEU:HD21	1:Ab:103:TRP:CZ3	2.43	0.53
1:Ab:99:GLU:OE2	1:Ab:101:PHE:HE1	1.92	0.53
1:Ab:165:ARG:HD3	2:Cd:182:PRO:HG3	1.90	0.53
1:Ab:186:TRP:O	1:Ab:187:LEU:HB3	2.09	0.53
1:Ad:103:TRP:HB2	1:Ad:198:THR:HG22	1.90	0.53
1:Af:212:ARG:O	1:Af:214:PRO:HD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:109:VAL:HG23	1:Ah:161:THR:OG1	2.09	0.53
1:Ai:104:VAL:HG22	1:Ai:197:LEU:HD21	1.90	0.53
1:Ak:99:GLU:OE2	1:Ak:101:PHE:HE1	1.92	0.53
1:Am:55:HIS:O	1:Am:194:SER:CB	2.56	0.53
1:Am:109:VAL:HG23	1:Am:161:THR:OG1	2.09	0.53
1:An:219:TYR:OH	3:Db:34:ARG:HD2	2.08	0.53
1:Ao:99:GLU:OE2	1:Ao:101:PHE:HE1	1.92	0.53
1:Ao:181:LYS:HA	2:Cs:137:GLU:HG3	1.89	0.53
1:BA:99:GLU:OE2	1:BA:101:PHE:HE1	1.92	0.53
1:BA:212:ARG:HG2	1:BA:214:PRO:HD3	1.91	0.53
1:BC:109:VAL:HG23	1:BC:161:THR:OG1	2.09	0.53
1:BD:99:GLU:OE2	1:BD:101:PHE:HE1	1.92	0.53
1:BD:118:ALA:HB2	1:BD:132:GLN:NE2	2.23	0.53
1:BD:212:ARG:O	1:BD:214:PRO:HD2	2.09	0.53
1:BF:212:ARG:HG2	1:BF:214:PRO:HD3	1.91	0.53
1:BG:219:TYR:OH	3:Ec:34:ARG:HD2	2.08	0.53
1:BH:104:VAL:HG22	1:BH:197:LEU:HD21	1.90	0.53
2:C0:69:TRP:CZ3	2:C0:124:LEU:CG	2.92	0.53
2:C2:27:GLN:HG3	2:C2:28:GLY:H	1.73	0.53
2:C6:115:ASN:HD22	3:DE:190:ALA:C	2.17	0.53
2:C7:80:ILE:HG23	2:C7:82:PRO:HD3	1.91	0.53
2:C7:115:ASN:HD22	3:Dm:190:ALA:C	2.17	0.53
2:C7:209:VAL:N	2:C7:210:PRO:CD	2.68	0.53
2:C8:117:SER:OG	2:C8:118:PHE:N	2.41	0.53
2:CC:195:VAL:C	2:CC:196:ILE:HG13	2.33	0.53
2:CE:115:ASN:HD22	3:DF:190:ALA:C	2.17	0.53
2:CF:228:ASN:ND2	3:DG:140:ALA:HB2	2.24	0.53
2:CH:225:PRO:HG2	3:DI:141:CYS:HA	1.89	0.53
2:CL:73:GLN:HA	2:CL:73:GLN:NE2	2.17	0.53
2:CN:115:ASN:HD22	3:D2:190:ALA:C	2.17	0.53
2:CO:69:TRP:HD1	2:CO:70:PRO:N	2.07	0.53
2:CP:69:TRP:CZ3	2:CP:124:LEU:CG	2.92	0.53
2:CP:195:VAL:C	2:CP:196:ILE:HG13	2.33	0.53
2:CQ:195:VAL:C	2:CQ:196:ILE:HG13	2.33	0.53
2:CZ:27:GLN:HG3	2:CZ:28:GLY:H	1.73	0.53
2:Cd:69:TRP:CZ3	2:Cd:124:LEU:CG	2.92	0.53
2:Ce:228:ASN:ND2	3:Df:140:ALA:HB2	2.24	0.53
2:Cf:124:LEU:HD12	2:Cf:163:LEU:HD12	1.91	0.53
2:Ch:69:TRP:CZ3	2:Ch:124:LEU:CG	2.92	0.53
2:Ch:209:VAL:N	2:Ch:210:PRO:CD	2.68	0.53
2:Ci:69:TRP:CZ3	2:Ci:124:LEU:CG	2.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cm:195:VAL:C	2:Cm:196:ILE:HG13	2.33	0.53
2:Co:69:TRP:CZ3	2:Co:124:LEU:CG	2.92	0.53
2:Cp:195:VAL:C	2:Cp:196:ILE:HG13	2.33	0.53
2:Cs:69:TRP:CZ3	2:Cs:124:LEU:CG	2.92	0.53
2:Ct:69:TRP:HD1	2:Ct:70:PRO:N	2.07	0.53
3:D0:56:ILE:HG13	3:D0:74:PHE:HE1	1.72	0.53
3:D7:56:ILE:HG13	3:D7:74:PHE:HE1	1.72	0.53
3:D9:48:LYS:HA	3:D9:210:ALA:HB3	1.90	0.53
3:DE:101:ARG:HA	3:DE:160:TYR:HE2	1.73	0.53
3:DE:145:VAL:HG22	3:DE:188:LEU:HD12	1.91	0.53
3:DH:15:MET:HB3	3:DH:18:VAL:HG13	1.90	0.53
3:DH:145:VAL:HG22	3:DH:188:LEU:HD12	1.91	0.53
3:DI:107:ASN:HA	3:DI:154:PHE:O	2.08	0.53
3:DK:56:ILE:HG13	3:DK:74:PHE:HE1	1.72	0.53
3:DO:56:ILE:HD13	3:DO:206:VAL:HG11	1.91	0.53
3:DT:90:VAL:HG11	3:DT:208:VAL:HG12	1.91	0.53
3:DT:145:VAL:HG22	3:DT:188:LEU:HD12	1.91	0.53
3:DU:169:VAL:O	3:DU:169:VAL:HG12	2.09	0.53
3:DW:90:VAL:HG11	3:DW:208:VAL:HG12	1.91	0.53
3:DW:101:ARG:HA	3:DW:160:TYR:HE2	1.72	0.53
3:DZ:101:ARG:HA	3:DZ:160:TYR:HE2	1.73	0.53
3:Da:90:VAL:HG11	3:Da:208:VAL:HG12	1.91	0.53
3:Dc:145:VAL:HG22	3:Dc:188:LEU:HD12	1.91	0.53
3:Dd:48:LYS:HA	3:Dd:210:ALA:HB3	1.90	0.53
3:De:145:VAL:HG22	3:De:188:LEU:HD12	1.91	0.53
3:Df:108:PHE:HA	3:Df:205:LEU:O	2.09	0.53
3:Dg:145:VAL:HG22	3:Dg:188:LEU:HD12	1.91	0.53
3:Dh:101:ARG:HA	3:Dh:160:TYR:HE2	1.73	0.53
3:Di:169:VAL:O	3:Di:169:VAL:HG12	2.09	0.53
3:Dj:48:LYS:HA	3:Dj:210:ALA:HB3	1.90	0.53
3:Dk:56:ILE:HD13	3:Dk:206:VAL:HG11	1.91	0.53
3:Dk:145:VAL:HG22	3:Dk:188:LEU:HD12	1.91	0.53
3:Dp:169:VAL:HG12	3:Dp:169:VAL:O	2.09	0.53
3:EE:15:MET:HB3	3:EE:18:VAL:HG13	1.90	0.53
3:EE:90:VAL:HG11	3:EE:208:VAL:HG12	1.91	0.53
3:EE:107:ASN:HA	3:EE:154:PHE:O	2.07	0.53
1:A1:55:HIS:O	1:A1:194:SER:CB	2.56	0.53
1:A1:212:ARG:HG2	1:A1:214:PRO:HD3	1.91	0.53
1:A2:109:VAL:HG23	1:A2:161:THR:OG1	2.09	0.53
1:A4:221:PRO:CA	3:D5:40:PHE:HE2	2.21	0.53
1:A5:55:HIS:O	1:A5:194:SER:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:121:LEU:CD2	1:A6:206:GLY:HA3	2.39	0.53
1:A7:219:TYR:OH	3:D8:34:ARG:HD2	2.08	0.53
1:AA:109:VAL:HG23	1:AA:161:THR:OG1	2.09	0.53
1:AB:109:VAL:H	1:AB:161:THR:HB	1.74	0.53
1:AB:109:VAL:HG23	1:AB:161:THR:OG1	2.09	0.53
1:AB:212:ARG:O	1:AB:214:PRO:HD2	2.09	0.53
1:AC:99:GLU:OE2	1:AC:101:PHE:HE1	1.92	0.53
1:AF:99:GLU:OE2	1:AF:101:PHE:HE1	1.92	0.53
1:AH:212:ARG:HG2	1:AH:214:PRO:HD3	1.91	0.53
1:AI:212:ARG:O	1:AI:214:PRO:HD2	2.09	0.53
1:AK:86:ILE:HD12	1:AK:86:ILE:H	1.72	0.53
1:AM:99:GLU:OE2	1:AM:101:PHE:HE1	1.92	0.53
1:AN:48:LEU:HD21	1:AN:103:TRP:CE3	2.44	0.53
1:AO:109:VAL:HG23	1:AO:161:THR:OG1	2.09	0.53
1:AO:186:TRP:O	1:AO:187:LEU:HB3	2.09	0.53
1:AP:165:ARG:HD3	2:CP:182:PRO:HG3	1.90	0.53
1:AQ:212:ARG:HG2	1:AQ:214:PRO:HD3	1.91	0.53
1:AR:109:VAL:H	1:AR:161:THR:HB	1.74	0.53
1:AU:55:HIS:O	1:AU:194:SER:CB	2.57	0.53
1:AU:109:VAL:HG23	1:AU:161:THR:OG1	2.09	0.53
1:AV:186:TRP:O	1:AV:187:LEU:HB3	2.09	0.53
1:AY:239:PHE:CD1	3:DZ:170:TYR:CD2	2.96	0.53
1:AZ:157:SER:CB	3:D0:24:PRO:HA	2.36	0.53
1:Aa:212:ARG:HG2	1:Aa:214:PRO:HD3	1.91	0.53
1:Ae:165:ARG:HD3	2:Cg:182:PRO:HG3	1.90	0.53
1:Ae:212:ARG:HG2	1:Ae:214:PRO:HD3	1.91	0.53
1:Af:104:VAL:HG22	1:Af:197:LEU:HD21	1.90	0.53
1:Af:186:TRP:O	1:Af:187:LEU:HB3	2.09	0.53
1:Ag:109:VAL:HG23	1:Ag:161:THR:OG1	2.09	0.53
1:Aj:48:LEU:HD21	1:Aj:103:TRP:CE3	2.44	0.53
1:Ao:55:HIS:O	1:Ao:194:SER:CB	2.57	0.53
1:BA:109:VAL:HG23	1:BA:161:THR:OG1	2.09	0.53
1:BB:104:VAL:HG22	1:BB:197:LEU:HD21	1.90	0.53
1:BB:109:VAL:HG23	1:BB:161:THR:OG1	2.09	0.53
1:BI:212:ARG:HG2	1:BI:214:PRO:HD3	1.91	0.53
2:C5:69:TRP:HD1	2:C5:70:PRO:N	2.07	0.53
2:C5:225:PRO:HG2	3:D6:141:CYS:HA	1.89	0.53
2:C6:69:TRP:CZ3	2:C6:124:LEU:CG	2.92	0.53
2:C6:80:ILE:HG23	2:C6:82:PRO:HD3	1.91	0.53
2:C7:69:TRP:CZ3	2:C7:124:LEU:CG	2.92	0.53
2:CA:69:TRP:CZ3	2:CA:124:LEU:CG	2.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:228:ASN:ND2	3:DE:140:ALA:HB2	2.24	0.53
2:CE:69:TRP:CZ3	2:CE:124:LEU:CG	2.92	0.53
2:CG:228:ASN:ND2	3:DH:140:ALA:HB2	2.24	0.53
2:CH:117:SER:OG	2:CH:118:PHE:N	2.41	0.53
2:CI:69:TRP:HD1	2:CI:70:PRO:N	2.07	0.53
2:CN:226:LEU:CD2	3:DO:126:PRO:HG2	2.36	0.53
2:CP:69:TRP:HD1	2:CP:70:PRO:N	2.07	0.53
2:CQ:69:TRP:HD1	2:CQ:70:PRO:N	2.07	0.53
2:CW:69:TRP:HD1	2:CW:70:PRO:N	2.07	0.53
2:CZ:60:ARG:O	2:CZ:216:ALA:HB1	2.07	0.53
2:Cb:84:PRO:HG3	2:Cb:108:TRP:HH2	1.72	0.53
2:Cc:124:LEU:HD12	2:Cc:163:LEU:HD12	1.91	0.53
2:Cf:80:ILE:HG23	2:Cf:82:PRO:HD3	1.91	0.53
2:Cf:115:ASN:HD22	3:DV:190:ALA:C	2.17	0.53
2:Cg:69:TRP:HD1	2:Cg:70:PRO:N	2.07	0.53
2:Ch:115:ASN:HD22	3:DN:190:ALA:C	2.17	0.53
2:Ci:115:ASN:HD22	3:Dj:190:ALA:C	2.17	0.53
2:Ck:117:SER:OG	2:Ck:118:PHE:N	2.41	0.53
2:Cm:69:TRP:HD1	2:Cm:70:PRO:N	2.07	0.53
2:Cn:228:ASN:ND2	3:Dj:140:ALA:HB2	2.24	0.53
2:Cs:69:TRP:HD1	2:Cs:70:PRO:N	2.07	0.53
2:Ct:69:TRP:CZ3	2:Ct:124:LEU:CG	2.92	0.53
2:Ct:115:ASN:HD22	3:DH:190:ALA:C	2.17	0.53
2:Cu:195:VAL:C	2:Cu:196:ILE:HG13	2.33	0.53
2:Cw:228:ASN:ND2	3:EE:140:ALA:HB2	2.24	0.53
2:Cx:84:PRO:HG3	2:Cx:108:TRP:HH2	1.72	0.53
3:D6:90:VAL:HG11	3:D6:208:VAL:HG12	1.91	0.53
3:DB:56:ILE:HG13	3:DB:74:PHE:HE1	1.72	0.53
3:DC:48:LYS:HA	3:DC:210:ALA:HB3	1.90	0.53
3:DC:56:ILE:HD13	3:DC:206:VAL:HG11	1.91	0.53
3:DC:108:PHE:HA	3:DC:205:LEU:O	2.09	0.53
3:DD:56:ILE:HG13	3:DD:74:PHE:HE1	1.72	0.53
3:DG:56:ILE:HD13	3:DG:206:VAL:HG11	1.91	0.53
3:DG:108:PHE:HA	3:DG:205:LEU:O	2.09	0.53
3:DK:90:VAL:HG11	3:DK:208:VAL:HG12	1.91	0.53
3:DM:108:PHE:HA	3:DM:205:LEU:O	2.09	0.53
3:DN:90:VAL:HG11	3:DN:208:VAL:HG12	1.91	0.53
3:DT:56:ILE:HD13	3:DT:206:VAL:HG11	1.91	0.53
3:DU:107:ASN:HA	3:DU:154:PHE:O	2.07	0.53
3:DX:56:ILE:HG13	3:DX:74:PHE:HE1	1.72	0.53
3:Dd:108:PHE:HA	3:Dd:205:LEU:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:De:108:PHE:HA	3:De:205:LEU:O	2.09	0.53
3:Dh:90:VAL:HG11	3:Dh:208:VAL:HG12	1.91	0.53
3:Dh:145:VAL:HG22	3:Dh:188:LEU:HD12	1.91	0.53
3:Dk:108:PHE:HA	3:Dk:205:LEU:O	2.09	0.53
3:Dn:90:VAL:HG11	3:Dn:208:VAL:HG12	1.91	0.53
3:Dq:145:VAL:HG22	3:Dq:188:LEU:HD12	1.91	0.53
3:EA:90:VAL:HG11	3:EA:208:VAL:HG12	1.91	0.53
3:EC:90:VAL:HG11	3:EC:208:VAL:HG12	1.91	0.53
3:ED:15:MET:HB3	3:ED:18:VAL:HG13	1.90	0.53
4:FU:25:PHE:HE1	4:FV:22:VAL:HB	1.72	0.53
1:A0:212:ARG:HG2	1:A0:214:PRO:HD3	1.91	0.53
1:A1:221:PRO:CA	3:D2:40:PHE:HE2	2.21	0.53
1:A3:104:VAL:HG22	1:A3:197:LEU:HD21	1.90	0.53
1:A4:118:ALA:HB2	1:A4:132:GLN:NE2	2.23	0.53
1:A5:184:TYR:HE2	2:C6:139:ALA:CB	2.22	0.53
1:A6:99:GLU:OE2	1:A6:101:PHE:HE1	1.92	0.53
1:A6:109:VAL:HG23	1:A6:161:THR:OG1	2.09	0.53
1:A7:212:ARG:HG2	1:A7:214:PRO:HD3	1.91	0.53
1:A8:186:TRP:O	1:A8:187:LEU:HB3	2.09	0.53
1:AB:104:VAL:HG22	1:AB:197:LEU:HD21	1.90	0.53
1:AH:55:HIS:O	1:AH:194:SER:CB	2.56	0.53
1:AH:212:ARG:O	1:AH:214:PRO:HD2	2.09	0.53
1:AI:48:LEU:HD21	1:AI:103:TRP:CE3	2.44	0.53
1:AK:99:GLU:OE2	1:AK:101:PHE:HE1	1.92	0.53
1:AL:212:ARG:O	1:AL:214:PRO:HD2	2.09	0.53
1:AM:55:HIS:O	1:AM:194:SER:CB	2.56	0.53
1:AN:109:VAL:H	1:AN:161:THR:HB	1.74	0.53
1:AN:212:ARG:HG2	1:AN:214:PRO:HD3	1.91	0.53
1:AN:219:TYR:OH	3:DN:34:ARG:HD2	2.08	0.53
1:AQ:48:LEU:HD21	1:AQ:103:TRP:CE3	2.44	0.53
1:AQ:212:ARG:O	1:AQ:214:PRO:HD2	2.09	0.53
1:AS:109:VAL:H	1:AS:161:THR:HB	1.74	0.53
1:AS:109:VAL:HG23	1:AS:161:THR:OG1	2.09	0.53
1:AT:48:LEU:HD21	1:AT:103:TRP:CE3	2.44	0.53
1:AT:212:ARG:HG2	1:AT:214:PRO:HD3	1.91	0.53
1:AU:48:LEU:HD21	1:AU:103:TRP:CE3	2.44	0.53
1:Aa:99:GLU:OE2	1:Aa:101:PHE:HE1	1.92	0.53
1:Aa:103:TRP:HB2	1:Aa:198:THR:HG22	1.90	0.53
1:Ac:109:VAL:HG23	1:Ac:161:THR:OG1	2.09	0.53
1:Ac:219:TYR:OH	3:De:34:ARG:HD2	2.08	0.53
1:Ad:30:VAL:CG1	1:Ad:218:MET:HE3	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:104:VAL:HG22	1:Ad:197:LEU:HD21	1.90	0.53
1:Ad:186:TRP:O	1:Ad:187:LEU:HB3	2.09	0.53
1:Ah:121:LEU:CD2	1:Ai:206:GLY:HA3	2.39	0.53
1:Ai:109:VAL:HG23	1:Ai:161:THR:OG1	2.09	0.53
1:Ai:115:THR:OG1	1:Ai:133:LEU:HB2	2.08	0.53
1:Ak:48:LEU:HD21	1:Ak:103:TRP:CE3	2.44	0.53
1:Al:239:PHE:CD1	3:Dn:170:TYR:CD2	2.96	0.53
1:BF:55:HIS:O	1:BF:194:SER:CB	2.56	0.53
1:BG:212:ARG:O	1:BG:214:PRO:HD2	2.09	0.53
2:C0:80:ILE:HG23	2:C0:82:PRO:HD3	1.91	0.53
2:C0:115:ASN:HD22	3:DQ:190:ALA:C	2.17	0.53
2:C1:69:TRP:CZ3	2:C1:124:LEU:CG	2.92	0.53
2:C5:80:ILE:HG23	2:C5:82:PRO:HD3	1.91	0.53
2:C8:228:ASN:ND2	3:D4:140:ALA:HB2	2.24	0.53
2:C9:69:TRP:HD1	2:C9:70:PRO:N	2.07	0.53
2:CC:27:GLN:HG3	2:CC:28:GLY:H	1.74	0.53
2:CC:69:TRP:CZ3	2:CC:124:LEU:CG	2.92	0.53
2:CC:228:ASN:ND2	3:DD:140:ALA:HB2	2.24	0.53
2:CF:80:ILE:HG23	2:CF:82:PRO:HD3	1.91	0.53
2:CF:124:LEU:HD12	2:CF:163:LEU:HD12	1.91	0.53
2:CG:69:TRP:HD1	2:CG:70:PRO:N	2.07	0.53
2:CG:80:ILE:HG23	2:CG:82:PRO:HD3	1.91	0.53
2:CH:69:TRP:HD1	2:CH:70:PRO:N	2.07	0.53
2:CH:115:ASN:OD1	3:Ds:119:LYS:CD	2.57	0.53
2:CM:195:VAL:C	2:CM:196:ILE:HG13	2.33	0.53
2:CN:195:VAL:C	2:CN:196:ILE:HG13	2.33	0.53
2:CP:115:ASN:HD22	3:D1:190:ALA:C	2.17	0.53
2:CQ:115:ASN:OD1	3:Dp:119:LYS:CD	2.57	0.53
2:CU:69:TRP:CZ3	2:CU:124:LEU:CG	2.92	0.53
2:CU:228:ASN:ND2	3:DV:140:ALA:HB2	2.24	0.53
2:CV:69:TRP:HD1	2:CV:70:PRO:N	2.07	0.53
2:CZ:69:TRP:CZ3	2:CZ:124:LEU:CG	2.92	0.53
2:CZ:80:ILE:HG23	2:CZ:82:PRO:HD3	1.91	0.53
2:Cb:124:LEU:HD12	2:Cb:163:LEU:HD12	1.91	0.53
2:Cb:152:TYR:CE1	3:Db:60:PRO:HD3	2.44	0.53
2:Cc:69:TRP:HD1	2:Cc:70:PRO:N	2.07	0.53
2:Cd:228:ASN:ND2	3:D9:140:ALA:HB2	2.24	0.53
2:Cg:115:ASN:OD1	3:D3:119:LYS:CD	2.57	0.53
2:Cg:117:SER:OG	2:Cg:118:PHE:N	2.41	0.53
2:Ch:117:SER:OG	2:Ch:118:PHE:N	2.41	0.53
2:Cj:69:TRP:HD1	2:Cj:70:PRO:N	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ck:27:GLN:HG3	2:Ck:28:GLY:H	1.74	0.53
2:Ck:228:ASN:ND2	3:Dl:140:ALA:HB2	2.24	0.53
2:Cl:117:SER:OG	2:Cl:118:PHE:N	2.41	0.53
2:Cl:124:LEU:HD12	2:Cl:163:LEU:HD12	1.91	0.53
2:Cn:27:GLN:HG3	2:Cn:28:GLY:H	1.73	0.53
2:Cn:69:TRP:HD1	2:Cn:70:PRO:N	2.07	0.53
2:Cr:228:ASN:ND2	3:Ds:140:ALA:HB2	2.24	0.53
2:Cs:226:LEU:CD2	3:Do:126:PRO:HG2	2.36	0.53
2:Ct:228:ASN:ND2	3:Eb:140:ALA:HB2	2.24	0.53
2:Cv:60:ARG:O	2:Cv:216:ALA:HB1	2.07	0.53
2:Cv:195:VAL:C	2:Cv:196:ILE:HG13	2.33	0.53
2:Cx:27:GLN:HG3	2:Cx:28:GLY:H	1.74	0.53
3:D1:145:VAL:HG22	3:D1:188:LEU:HD12	1.91	0.53
3:D2:48:LYS:HA	3:D2:210:ALA:HB3	1.90	0.53
3:D5:48:LYS:HA	3:D5:210:ALA:HB3	1.90	0.53
3:D9:42:ASN:HD22	3:D9:44:ILE:HG22	1.65	0.53
3:DA:56:ILE:HG13	3:DA:74:PHE:HE1	1.72	0.53
3:DA:108:PHE:HA	3:DA:205:LEU:O	2.09	0.53
3:DA:169:VAL:O	3:DA:169:VAL:HG12	2.09	0.53
3:DB:56:ILE:HD13	3:DB:206:VAL:HG11	1.91	0.53
3:DG:169:VAL:O	3:DG:169:VAL:HG12	2.09	0.53
3:DL:108:PHE:HA	3:DL:205:LEU:O	2.09	0.53
3:DO:108:PHE:HA	3:DO:205:LEU:O	2.09	0.53
3:DQ:90:VAL:HG11	3:DQ:208:VAL:HG12	1.91	0.53
3:DQ:145:VAL:HG22	3:DQ:188:LEU:HD12	1.91	0.53
3:DV:145:VAL:HG22	3:DV:188:LEU:HD12	1.91	0.53
3:DW:42:ASN:HD22	3:DW:44:ILE:N	2.08	0.53
3:DW:56:ILE:HG13	3:DW:74:PHE:HE1	1.72	0.53
3:DW:107:ASN:HA	3:DW:154:PHE:O	2.07	0.53
3:DX:108:PHE:HA	3:DX:205:LEU:O	2.09	0.53
3:Db:42:ASN:HD22	3:Db:44:ILE:N	2.07	0.53
3:Db:108:PHE:HA	3:Db:205:LEU:O	2.09	0.53
3:Db:145:VAL:HG22	3:Db:188:LEU:HD12	1.91	0.53
3:Dc:108:PHE:HA	3:Dc:205:LEU:O	2.09	0.53
3:Dk:56:ILE:HG13	3:Dk:74:PHE:HE1	1.72	0.53
3:Dl:145:VAL:HG22	3:Dl:188:LEU:HD12	1.91	0.53
3:Dp:108:PHE:HA	3:Dp:205:LEU:O	2.09	0.53
3:Dq:108:PHE:HA	3:Dq:205:LEU:O	2.09	0.53
3:Ds:56:ILE:HD13	3:Ds:206:VAL:HG11	1.91	0.53
1:A0:48:LEU:HD21	1:A0:103:TRP:CE3	2.44	0.52
1:A6:118:ALA:HB2	1:A6:132:GLN:NE2	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:48:LEU:HD21	1:A7:103:TRP:CE3	2.44	0.52
1:A7:99:GLU:OE2	1:A7:101:PHE:HE1	1.92	0.52
1:A9:109:VAL:HG23	1:A9:161:THR:OG1	2.09	0.52
1:AC:109:VAL:H	1:AC:161:THR:HB	1.74	0.52
1:AD:212:ARG:HG2	1:AD:214:PRO:HD3	1.91	0.52
1:AE:109:VAL:HG23	1:AE:161:THR:OG1	2.09	0.52
1:AF:48:LEU:HD21	1:AF:103:TRP:CE3	2.44	0.52
1:AG:109:VAL:HG23	1:AG:161:THR:OG1	2.09	0.52
1:AG:121:LEU:CD2	1:AH:206:GLY:HA3	2.39	0.52
1:AG:212:ARG:O	1:AG:214:PRO:HD2	2.09	0.52
1:AK:157:SER:CB	3:DK:24:PRO:HA	2.36	0.52
1:AL:48:LEU:HD21	1:AL:103:TRP:CE3	2.44	0.52
1:AM:48:LEU:HD21	1:AM:103:TRP:CE3	2.44	0.52
1:AM:104:VAL:HG22	1:AM:197:LEU:HD21	1.90	0.52
1:AN:99:GLU:OE2	1:AN:101:PHE:HE1	1.92	0.52
1:AN:121:LEU:CD2	1:AO:206:GLY:HA3	2.39	0.52
1:AP:55:HIS:O	1:AP:194:SER:CB	2.56	0.52
1:AP:109:VAL:H	1:AP:161:THR:HB	1.74	0.52
1:AR:48:LEU:HD21	1:AR:103:TRP:CE3	2.44	0.52
1:AX:181:LYS:HA	2:CY:137:GLU:HG3	1.89	0.52
1:AZ:109:VAL:HG23	1:AZ:161:THR:OG1	2.09	0.52
1:Ab:109:VAL:H	1:Ab:161:THR:HB	1.74	0.52
1:Ae:48:LEU:HD21	1:Ae:103:TRP:CE3	2.44	0.52
1:Ae:86:ILE:HD12	1:Ae:86:ILE:H	1.73	0.52
1:Ag:165:ARG:HD3	2:Ci:182:PRO:HG3	1.90	0.52
1:Ai:109:VAL:H	1:Ai:161:THR:HB	1.74	0.52
1:Aj:109:VAL:H	1:Aj:161:THR:HB	1.74	0.52
1:Aj:219:TYR:OH	3:Dl:34:ARG:HD2	2.08	0.52
1:Ak:86:ILE:CD1	1:Ak:86:ILE:H	2.23	0.52
1:Ak:212:ARG:O	1:Ak:214:PRO:HD2	2.09	0.52
1:Al:109:VAL:H	1:Al:161:THR:HB	1.74	0.52
1:Am:165:ARG:HD3	2:Co:182:PRO:HG3	1.90	0.52
1:An:48:LEU:HD21	1:An:103:TRP:CE3	2.44	0.52
1:Ao:219:TYR:OH	3:DS:34:ARG:HD2	2.08	0.52
1:BB:121:LEU:CD2	1:BC:206:GLY:HA3	2.39	0.52
1:BB:149:SER:C	1:BB:151:SER:H	2.18	0.52
1:BE:184:TYR:HE2	2:Ct:139:ALA:CB	2.23	0.52
1:BF:219:TYR:OH	3:EB:34:ARG:HD2	2.08	0.52
1:BG:48:LEU:HD21	1:BG:103:TRP:CE3	2.44	0.52
1:BH:109:VAL:HG23	1:BH:161:THR:OG1	2.09	0.52
1:BI:48:LEU:HD21	1:BI:103:TRP:CE3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:80:ILE:HG23	2:C2:82:PRO:HD3	1.91	0.52
2:C4:80:ILE:HG23	2:C4:82:PRO:HD3	1.91	0.52
2:C4:124:LEU:HD12	2:C4:163:LEU:HD12	1.91	0.52
2:C5:115:ASN:OD1	3:DG:119:LYS:CD	2.58	0.52
2:C6:124:LEU:HD12	2:C6:163:LEU:HD12	1.91	0.52
2:C7:124:LEU:HD12	2:C7:163:LEU:HD12	1.91	0.52
2:C9:115:ASN:OD1	3:DI:119:LYS:CD	2.58	0.52
2:CB:228:ASN:ND2	3:DC:140:ALA:HB2	2.24	0.52
2:CE:124:LEU:HD12	2:CE:163:LEU:HD12	1.91	0.52
2:CG:115:ASN:HD22	3:EB:190:ALA:C	2.17	0.52
2:CI:117:SER:OG	2:CI:118:PHE:N	2.41	0.52
2:CI:124:LEU:HD12	2:CI:163:LEU:HD12	1.92	0.52
2:CJ:228:ASN:ND2	3:DF:140:ALA:HB2	2.24	0.52
2:CK:80:ILE:HG23	2:CK:82:PRO:HD3	1.91	0.52
2:CK:115:ASN:OD1	3:Db:119:LYS:CD	2.58	0.52
2:CL:228:ASN:ND2	3:DM:140:ALA:HB2	2.24	0.52
2:CO:115:ASN:OD1	3:DP:119:LYS:CD	2.58	0.52
2:CS:69:TRP:CZ3	2:CS:124:LEU:CG	2.92	0.52
2:CU:49:ASP:CB	3:DV:161:SER:HB3	2.40	0.52
2:CU:80:ILE:HG23	2:CU:82:PRO:HD3	1.91	0.52
2:CW:228:ASN:ND2	3:DX:140:ALA:HB2	2.24	0.52
2:CZ:115:ASN:HD22	3:Dq:190:ALA:C	2.17	0.52
2:Ca:69:TRP:CZ3	2:Ca:124:LEU:CG	2.92	0.52
2:Ca:152:TYR:CE1	3:Da:60:PRO:HD3	2.45	0.52
2:Cb:115:ASN:OD1	3:DT:119:LYS:CD	2.57	0.52
2:Cc:49:ASP:CB	3:Dd:161:SER:HB3	2.40	0.52
2:Cc:80:ILE:HG23	2:Cc:82:PRO:HD3	1.91	0.52
2:Ce:124:LEU:HD12	2:Ce:163:LEU:HD12	1.92	0.52
2:Ce:195:VAL:C	2:Ce:196:ILE:HG13	2.33	0.52
2:Cm:49:ASP:CB	3:Dn:161:SER:HB3	2.40	0.52
2:Cm:115:ASN:OD1	3:DD:119:LYS:CD	2.58	0.52
2:Cn:115:ASN:OD1	3:De:119:LYS:CD	2.58	0.52
2:Cs:117:SER:OG	2:Cs:118:PHE:N	2.41	0.52
2:Cs:228:ASN:ND2	3:Do:140:ALA:HB2	2.24	0.52
2:Ct:80:ILE:HG23	2:Ct:82:PRO:HD3	1.91	0.52
2:Ct:124:LEU:HD12	2:Ct:163:LEU:HD12	1.91	0.52
2:Ct:195:VAL:C	2:Ct:196:ILE:HG13	2.33	0.52
2:Cu:228:ASN:ND2	3:EC:140:ALA:HB2	2.24	0.52
2:Cv:27:GLN:HG3	2:Cv:28:GLY:H	1.73	0.52
3:D0:108:PHE:HA	3:D0:205:LEU:O	2.09	0.52
3:D0:145:VAL:HG22	3:D0:188:LEU:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D5:56:ILE:HD13	3:D5:206:VAL:HG11	1.91	0.52
3:D6:145:VAL:HG22	3:D6:188:LEU:HD12	1.91	0.52
3:D7:145:VAL:HG22	3:D7:188:LEU:HD12	1.91	0.52
3:D8:169:VAL:HG12	3:D8:169:VAL:O	2.09	0.52
3:DB:90:VAL:HG11	3:DB:208:VAL:HG12	1.91	0.52
3:DC:169:VAL:HG12	3:DC:169:VAL:O	2.09	0.52
3:DD:42:ASN:HD22	3:DD:44:ILE:N	2.08	0.52
3:DD:145:VAL:HG22	3:DD:188:LEU:HD12	1.91	0.52
3:DH:101:ARG:HA	3:DH:160:TYR:HE2	1.73	0.52
3:DQ:42:ASN:HD22	3:DQ:44:ILE:N	2.08	0.52
3:DR:145:VAL:HG22	3:DR:188:LEU:HD12	1.91	0.52
3:DS:56:ILE:HD13	3:DS:206:VAL:HG11	1.91	0.52
3:DU:90:VAL:HG11	3:DU:208:VAL:HG12	1.91	0.52
3:DV:101:ARG:HA	3:DV:160:TYR:HE2	1.72	0.52
3:DX:145:VAL:HG22	3:DX:188:LEU:HD12	1.91	0.52
3:DY:90:VAL:HG11	3:DY:208:VAL:HG12	1.91	0.52
3:DY:108:PHE:HA	3:DY:205:LEU:O	2.09	0.52
3:Db:101:ARG:HA	3:Db:160:TYR:HE2	1.73	0.52
3:Dk:169:VAL:O	3:Dk:169:VAL:HG12	2.09	0.52
3:Dl:90:VAL:HG11	3:Dl:208:VAL:HG12	1.91	0.52
3:Dq:56:ILE:HD13	3:Dq:206:VAL:HG11	1.91	0.52
3:Ds:101:ARG:HA	3:Ds:160:TYR:HE2	1.73	0.52
4:FC:25:PHE:CD2	4:FC:26:TYR:CE1	2.98	0.52
4:Ff:25:PHE:HE1	4:Fg:22:VAL:HB	1.72	0.52
1:A1:37:PHE:HA	1:A1:211:TYR:O	2.10	0.52
1:A1:48:LEU:HD21	1:A1:103:TRP:CE3	2.44	0.52
1:A1:86:ILE:CD1	1:A1:86:ILE:H	2.22	0.52
1:A1:109:VAL:H	1:A1:161:THR:HB	1.74	0.52
1:A2:186:TRP:O	1:A2:187:LEU:HB3	2.09	0.52
1:A4:99:GLU:OE2	1:A4:101:PHE:HE1	1.92	0.52
1:A4:212:ARG:O	1:A4:214:PRO:HD2	2.09	0.52
1:A5:109:VAL:HG23	1:A5:161:THR:OG1	2.09	0.52
1:A7:109:VAL:HG23	1:A7:161:THR:OG1	2.09	0.52
1:AA:104:VAL:HG22	1:AA:197:LEU:HD21	1.90	0.52
1:AA:121:LEU:CD2	1:AB:206:GLY:HA3	2.39	0.52
1:AB:99:GLU:OE2	1:AB:101:PHE:HE1	1.92	0.52
1:AB:103:TRP:HB2	1:AB:198:THR:HG22	1.89	0.52
1:AC:104:VAL:HG22	1:AC:197:LEU:HD21	1.90	0.52
1:AC:212:ARG:HG2	1:AC:214:PRO:HD3	1.91	0.52
1:AF:181:LYS:HA	2:CF:137:GLU:HG3	1.89	0.52
1:AH:109:VAL:H	1:AH:161:THR:HB	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:165:ARG:HD3	2:CH:182:PRO:HG3	1.90	0.52
1:AI:212:ARG:HG2	1:AI:214:PRO:HD3	1.91	0.52
1:AJ:99:GLU:OE2	1:AJ:101:PHE:HE1	1.92	0.52
1:AK:212:ARG:HG2	1:AK:214:PRO:HD3	1.91	0.52
1:AM:86:ILE:CD1	1:AM:86:ILE:H	2.23	0.52
1:AM:212:ARG:O	1:AM:214:PRO:HD2	2.09	0.52
1:AO:108:PRO:HA	1:AO:161:THR:HG21	1.92	0.52
1:AO:184:TYR:HE2	2:CO:139:ALA:CB	2.23	0.52
1:AP:206:GLY:HA3	1:AS:121:LEU:CD2	2.39	0.52
1:AQ:55:HIS:O	1:AQ:194:SER:CB	2.56	0.52
1:AQ:99:GLU:OE2	1:AQ:101:PHE:HE1	1.92	0.52
1:AU:99:GLU:OE2	1:AU:101:PHE:HE1	1.92	0.52
1:AU:115:THR:OG1	1:AU:133:LEU:HB2	2.08	0.52
1:AU:186:TRP:O	1:AU:187:LEU:HB3	2.09	0.52
1:AV:99:GLU:OE2	1:AV:101:PHE:HE1	1.92	0.52
1:AY:103:TRP:HB2	1:AY:198:THR:HG22	1.89	0.52
1:Ab:184:TYR:HE2	2:Cd:139:ALA:CB	2.23	0.52
1:Ab:212:ARG:HG2	1:Ab:214:PRO:HD3	1.91	0.52
1:Ab:219:TYR:OH	3:Dd:34:ARG:HD2	2.08	0.52
1:Ac:48:LEU:HD21	1:Ac:103:TRP:CE3	2.44	0.52
1:Ac:165:ARG:HD3	2:Ce:182:PRO:HG3	1.90	0.52
1:Ad:99:GLU:OE2	1:Ad:101:PHE:HE1	1.92	0.52
1:Ad:212:ARG:O	1:Ad:214:PRO:HD2	2.09	0.52
1:Af:184:TYR:HE2	2:Ch:139:ALA:CB	2.23	0.52
1:Ag:184:TYR:HE2	2:Ci:139:ALA:CB	2.23	0.52
1:Ai:55:HIS:O	1:Ai:194:SER:CB	2.56	0.52
1:Ak:104:VAL:HG22	1:Ak:197:LEU:HD21	1.90	0.52
1:Ak:109:VAL:HG23	1:Ak:161:THR:OG1	2.09	0.52
1:Al:184:TYR:HE2	2:Cn:139:ALA:CB	2.23	0.52
1:Am:109:VAL:H	1:Am:161:THR:HB	1.74	0.52
1:Am:219:TYR:OH	3:Do:34:ARG:HD2	2.08	0.52
1:An:118:ALA:HB2	1:An:132:GLN:NE2	2.23	0.52
1:Ao:48:LEU:HD21	1:Ao:103:TRP:CE3	2.44	0.52
1:Ao:86:ILE:HD12	1:Ao:86:ILE:H	1.72	0.52
1:Ao:212:ARG:O	1:Ao:214:PRO:HD2	2.09	0.52
1:BA:212:ARG:O	1:BA:214:PRO:HD2	2.09	0.52
1:BB:108:PRO:HA	1:BB:161:THR:HG21	1.92	0.52
1:BF:48:LEU:HD21	1:BF:103:TRP:CE3	2.44	0.52
1:BF:184:TYR:HE2	2:Cu:139:ALA:CB	2.23	0.52
1:BG:30:VAL:CG1	1:BG:218:MET:HE3	2.34	0.52
1:BH:48:LEU:HD21	1:BH:103:TRP:CE3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:212:ARG:O	1:BH:214:PRO:HD2	2.09	0.52
2:C0:27:GLN:HG3	2:C0:28:GLY:H	1.73	0.52
2:C0:124:LEU:HD12	2:C0:163:LEU:HD12	1.92	0.52
2:C1:124:LEU:HD12	2:C1:163:LEU:HD12	1.91	0.52
2:C2:115:ASN:OD1	3:Dh:119:LYS:CD	2.57	0.52
2:C4:153:GLN:NE2	3:D4:55:SER:N	2.58	0.52
2:C5:228:ASN:ND2	3:D6:140:ALA:HB2	2.24	0.52
2:C6:117:SER:OG	2:C6:118:PHE:N	2.41	0.52
2:C8:124:LEU:HD12	2:C8:163:LEU:HD12	1.91	0.52
2:CB:69:TRP:CZ3	2:CB:124:LEU:CG	2.92	0.52
2:CE:80:ILE:HG23	2:CE:82:PRO:HD3	1.91	0.52
2:CG:115:ASN:OD1	3:EB:119:LYS:CD	2.58	0.52
2:CG:117:SER:OG	2:CG:118:PHE:N	2.41	0.52
2:CH:153:GLN:NE2	3:DH:55:SER:N	2.58	0.52
2:CJ:117:SER:OG	2:CJ:118:PHE:N	2.41	0.52
2:CN:49:ASP:CB	3:DO:161:SER:HB3	2.40	0.52
2:CP:152:TYR:CE1	3:DP:60:PRO:HD3	2.45	0.52
2:CQ:117:SER:OG	2:CQ:118:PHE:N	2.41	0.52
2:CR:228:ASN:ND2	3:DS:140:ALA:HB2	2.24	0.52
2:CS:153:GLN:NE2	3:DS:55:SER:N	2.58	0.52
2:CS:228:ASN:ND2	3:DT:140:ALA:HB2	2.24	0.52
2:CX:80:ILE:HG23	2:CX:82:PRO:HD3	1.91	0.52
2:CZ:226:LEU:CD2	3:D0:126:PRO:HG2	2.36	0.52
2:Ca:80:ILE:HG23	2:Ca:82:PRO:HD3	1.91	0.52
2:Ce:115:ASN:OD1	3:DC:119:LYS:CD	2.58	0.52
2:Ce:152:TYR:CE1	3:De:60:PRO:HD3	2.44	0.52
2:Ce:153:GLN:NE2	3:De:55:SER:N	2.58	0.52
2:Cg:49:ASP:CB	3:Dh:161:SER:HB3	2.39	0.52
2:Cg:153:GLN:NE2	3:Dg:55:SER:N	2.58	0.52
2:Cj:80:ILE:HG23	2:Cj:82:PRO:HD3	1.91	0.52
2:Cj:115:ASN:OD1	3:DM:119:LYS:CD	2.57	0.52
2:Cl:152:TYR:CE1	3:Dl:60:PRO:HD3	2.45	0.52
2:Cp:80:ILE:HG23	2:Cp:82:PRO:HD3	1.91	0.52
2:Cq:115:ASN:OD1	3:DY:119:LYS:CD	2.58	0.52
2:Cq:124:LEU:HD12	2:Cq:163:LEU:HD12	1.92	0.52
2:Cq:152:TYR:CE1	3:Dq:60:PRO:HD3	2.45	0.52
2:Cq:153:GLN:NE2	3:Dq:55:SER:N	2.58	0.52
2:Cr:124:LEU:HD12	2:Cr:163:LEU:HD12	1.91	0.52
2:Cs:124:LEU:HD12	2:Cs:163:LEU:HD12	1.92	0.52
2:Ct:153:GLN:NE2	3:EA:55:SER:N	2.58	0.52
3:D5:56:ILE:HG13	3:D5:74:PHE:HE1	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:56:ILE:HD13	3:D9:206:VAL:HG11	1.91	0.52
3:D9:145:VAL:HG22	3:D9:188:LEU:HD12	1.91	0.52
3:DC:42:ASN:HD22	3:DC:44:ILE:N	2.07	0.52
3:DD:169:VAL:HG12	3:DD:169:VAL:O	2.09	0.52
3:DE:42:ASN:HD22	3:DE:44:ILE:N	2.08	0.52
3:DE:48:LYS:HA	3:DE:210:ALA:HB3	1.90	0.52
3:DE:90:VAL:HG11	3:DE:208:VAL:HG12	1.91	0.52
3:DE:108:PHE:HA	3:DE:205:LEU:O	2.09	0.52
3:DF:90:VAL:HG11	3:DF:208:VAL:HG12	1.91	0.52
3:DF:108:PHE:HA	3:DF:205:LEU:O	2.09	0.52
3:DJ:100:TYR:CZ	3:DJ:167:MET:HB2	2.45	0.52
3:DK:42:ASN:HD22	3:DK:44:ILE:N	2.08	0.52
3:DL:107:ASN:HA	3:DL:154:PHE:O	2.08	0.52
3:DP:108:PHE:HA	3:DP:205:LEU:O	2.09	0.52
3:DQ:108:PHE:HA	3:DQ:205:LEU:O	2.09	0.52
3:DR:42:ASN:HD22	3:DR:44:ILE:N	2.08	0.52
3:DW:145:VAL:HG22	3:DW:188:LEU:HD12	1.91	0.52
3:DZ:108:PHE:HA	3:DZ:205:LEU:O	2.09	0.52
3:Dh:15:MET:HB3	3:Dh:18:VAL:HG13	1.90	0.52
3:Di:100:TYR:CZ	3:Di:167:MET:HB2	2.45	0.52
3:Dm:42:ASN:HD22	3:Dm:44:ILE:N	2.08	0.52
3:Do:56:ILE:HD13	3:Do:206:VAL:HG11	1.91	0.52
3:Dq:169:VAL:HG12	3:Dq:169:VAL:O	2.09	0.52
3:Dr:56:ILE:HG13	3:Dr:74:PHE:HE1	1.72	0.52
3:EA:48:LYS:HA	3:EA:210:ALA:HB3	1.90	0.52
3:EB:90:VAL:HG11	3:EB:208:VAL:HG12	1.91	0.52
3:EE:108:PHE:HA	3:EE:205:LEU:O	2.09	0.52
4:FN:25:PHE:CD2	4:FN:26:TYR:CE1	2.98	0.52
4:FP:25:PHE:CD2	4:FP:26:TYR:CE1	2.98	0.52
1:A0:239:PHE:CD1	3:D1:170:TYR:CD2	2.96	0.52
1:A1:186:TRP:O	1:A1:187:LEU:HB3	2.09	0.52
1:A2:48:LEU:HD21	1:A2:103:TRP:CE3	2.44	0.52
1:A3:186:TRP:O	1:A3:187:LEU:HB3	2.09	0.52
1:A5:104:VAL:HG22	1:A5:197:LEU:HD21	1.90	0.52
1:A6:103:TRP:HB2	1:A6:198:THR:HG22	1.89	0.52
1:A6:109:VAL:H	1:A6:161:THR:HB	1.74	0.52
1:A8:86:ILE:CD1	1:A8:86:ILE:H	2.23	0.52
1:A8:99:GLU:OE2	1:A8:101:PHE:HE1	1.92	0.52
1:A8:184:TYR:HE2	2:C9:139:ALA:CB	2.22	0.52
1:AA:109:VAL:H	1:AA:161:THR:HB	1.75	0.52
1:AB:181:LYS:HA	2:CB:137:GLU:HG3	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:55:HIS:O	1:AD:194:SER:CB	2.57	0.52
1:AD:109:VAL:H	1:AD:161:THR:HB	1.74	0.52
1:AD:109:VAL:HG23	1:AD:161:THR:OG1	2.09	0.52
1:AG:76:THR:O	1:AG:169:VAL:HG23	2.10	0.52
1:AG:109:VAL:H	1:AG:161:THR:HB	1.74	0.52
1:AH:48:LEU:HD21	1:AH:103:TRP:CE3	2.44	0.52
1:AI:186:TRP:O	1:AI:187:LEU:HB3	2.09	0.52
1:AL:109:VAL:HG23	1:AL:161:THR:OG1	2.09	0.52
1:AM:109:VAL:HG23	1:AM:161:THR:OG1	2.09	0.52
1:AM:212:ARG:HG2	1:AM:214:PRO:HD3	1.91	0.52
1:AP:86:ILE:CD1	1:AP:86:ILE:H	2.23	0.52
1:AP:212:ARG:HG2	1:AP:214:PRO:HD3	1.91	0.52
1:AQ:239:PHE:CD1	3:DQ:170:TYR:CD2	2.96	0.52
1:AS:55:HIS:O	1:AS:194:SER:CB	2.57	0.52
1:AS:206:GLY:HA3	1:Ao:121:LEU:CD2	2.39	0.52
1:AT:76:THR:O	1:AT:169:VAL:HG23	2.10	0.52
1:AT:239:PHE:CD1	3:DU:170:TYR:CD2	2.96	0.52
1:AU:104:VAL:HG22	1:AU:197:LEU:HD21	1.90	0.52
1:AV:76:THR:O	1:AV:169:VAL:HG23	2.10	0.52
1:AW:115:THR:OG1	1:AW:133:LEU:HB2	2.08	0.52
1:AX:186:TRP:O	1:AX:187:LEU:HB3	2.09	0.52
1:AX:212:ARG:O	1:AX:214:PRO:HD2	2.09	0.52
1:AY:212:ARG:HG2	1:AY:214:PRO:HD3	1.91	0.52
1:AZ:108:PRO:HA	1:AZ:161:THR:HG21	1.92	0.52
1:AZ:184:TYR:HE2	2:C0:139:ALA:CB	2.23	0.52
1:Aa:109:VAL:H	1:Aa:161:THR:HB	1.74	0.52
1:Aa:165:ARG:HD3	2:Cc:182:PRO:HG3	1.90	0.52
1:Aa:212:ARG:O	1:Aa:214:PRO:HD2	2.09	0.52
1:Aa:239:PHE:CD1	3:Dc:170:TYR:CD2	2.96	0.52
1:Ac:37:PHE:HA	1:Ac:211:TYR:O	2.10	0.52
1:Ac:212:ARG:HG2	1:Ac:214:PRO:HD3	1.91	0.52
1:Ah:76:THR:O	1:Ah:169:VAL:HG23	2.10	0.52
1:Ai:186:TRP:O	1:Ai:187:LEU:HB3	2.09	0.52
1:Aj:212:ARG:HG2	1:Aj:214:PRO:HD3	1.91	0.52
1:Ak:157:SER:CB	3:Dm:24:PRO:HA	2.36	0.52
1:Ak:184:TYR:HE2	2:Cm:139:ALA:CB	2.23	0.52
1:Al:76:THR:O	1:Al:169:VAL:HG23	2.10	0.52
1:Al:86:ILE:CD1	1:Al:86:ILE:H	2.23	0.52
1:Am:149:SER:C	1:Am:151:SER:H	2.18	0.52
1:Am:184:TYR:HE2	2:Co:139:ALA:CB	2.23	0.52
1:An:55:HIS:O	1:An:194:SER:CB	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:76:THR:O	1:Ao:169:VAL:HG23	2.10	0.52
1:BA:76:THR:O	1:BA:169:VAL:HG23	2.10	0.52
1:BC:55:HIS:O	1:BC:194:SER:CB	2.56	0.52
1:BC:219:TYR:OH	3:Dr:34:ARG:HD2	2.08	0.52
1:BD:48:LEU:HD21	1:BD:103:TRP:CE3	2.44	0.52
1:BD:184:TYR:HE2	2:Cs:139:ALA:CB	2.23	0.52
1:BE:239:PHE:CD1	3:EA:170:TYR:CD2	2.96	0.52
1:BF:99:GLU:OE2	1:BF:101:PHE:HE1	1.92	0.52
1:BG:109:VAL:H	1:BG:161:THR:HB	1.74	0.52
1:BH:55:HIS:O	1:BH:194:SER:CB	2.57	0.52
2:C0:153:GLN:NE2	3:D0:55:SER:N	2.58	0.52
2:C1:24:ILE:HG23	3:DO:145:VAL:HB	1.92	0.52
2:C1:69:TRP:HD1	2:C1:70:PRO:N	2.07	0.52
2:C1:80:ILE:HG23	2:C1:82:PRO:HD3	1.91	0.52
2:C3:69:TRP:CZ3	2:C3:124:LEU:CG	2.92	0.52
2:C3:69:TRP:HD1	2:C3:70:PRO:N	2.07	0.52
2:C4:69:TRP:CZ3	2:C4:124:LEU:CG	2.92	0.52
2:C5:24:ILE:HG23	3:DG:145:VAL:HB	1.92	0.52
2:C5:153:GLN:NE2	3:D5:55:SER:N	2.58	0.52
2:C6:153:GLN:NE2	3:D6:55:SER:N	2.58	0.52
2:C7:195:VAL:C	2:C7:196:ILE:HG13	2.33	0.52
2:C8:69:TRP:CZ3	2:C8:124:LEU:CG	2.92	0.52
2:C8:80:ILE:HG23	2:C8:82:PRO:HD3	1.91	0.52
2:C9:69:TRP:CZ3	2:C9:124:LEU:CG	2.92	0.52
2:CA:84:PRO:HG3	2:CA:108:TRP:HH2	1.72	0.52
2:CA:124:LEU:HD12	2:CA:163:LEU:HD12	1.92	0.52
2:CA:153:GLN:NE2	3:DA:55:SER:N	2.58	0.52
2:CB:152:TYR:CE1	3:DB:60:PRO:HD3	2.45	0.52
2:CD:152:TYR:CD1	2:CD:152:TYR:C	2.88	0.52
2:CD:153:GLN:NE2	3:DD:55:SER:N	2.58	0.52
2:CE:115:ASN:OD1	3:DF:119:LYS:CD	2.58	0.52
2:CG:49:ASP:CB	3:DH:161:SER:HB3	2.40	0.52
2:CG:69:TRP:CZ3	2:CG:124:LEU:CG	2.92	0.52
2:CG:153:GLN:NE2	3:DG:55:SER:N	2.58	0.52
2:CI:115:ASN:OD1	3:DX:119:LYS:CD	2.58	0.52
2:CK:49:ASP:CB	3:DL:161:SER:HB3	2.40	0.52
2:CL:49:ASP:CB	3:DM:161:SER:HB3	2.40	0.52
2:CL:115:ASN:OD1	3:Dk:119:LYS:CD	2.57	0.52
2:CO:153:GLN:NE2	3:DO:55:SER:N	2.58	0.52
2:CQ:69:TRP:CZ3	2:CQ:124:LEU:CG	2.92	0.52
2:CR:24:ILE:HG23	3:EE:145:VAL:HB	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CU:152:TYR:CD1	2:CU:152:TYR:C	2.88	0.52
2:CV:49:ASP:CB	3:DW:161:SER:HB3	2.40	0.52
2:CV:153:GLN:NE2	3:DV:55:SER:N	2.58	0.52
2:CW:115:ASN:OD1	3:DJ:119:LYS:CD	2.58	0.52
2:CY:69:TRP:CZ3	2:CY:124:LEU:CG	2.92	0.52
2:CZ:152:TYR:CE1	3:DZ:60:PRO:HD3	2.45	0.52
2:Cb:73:GLN:HA	2:Cb:73:GLN:NE2	2.17	0.52
2:Cb:153:GLN:NE2	3:Db:55:SER:N	2.58	0.52
2:Cc:115:ASN:OD1	3:ED:119:LYS:CD	2.58	0.52
2:Cc:152:TYR:CE1	3:Dc:60:PRO:HD3	2.45	0.52
2:Cd:49:ASP:CB	3:D9:161:SER:HB3	2.40	0.52
2:Cd:115:ASN:OD1	3:D4:119:LYS:CD	2.58	0.52
2:Cg:24:ILE:HG23	3:D3:145:VAL:HB	1.92	0.52
2:Ch:115:ASN:OD1	3:DN:119:LYS:CD	2.57	0.52
2:Ch:153:GLN:NE2	3:Dh:55:SER:N	2.58	0.52
2:Cj:153:GLN:NE2	3:Dj:55:SER:N	2.58	0.52
2:Ck:195:VAL:C	2:Ck:196:ILE:HG13	2.34	0.52
2:Cm:115:ASN:HD22	3:DD:190:ALA:C	2.17	0.52
2:Cm:152:TYR:CE1	3:Dm:60:PRO:HD3	2.45	0.52
2:Cn:49:ASP:CB	3:Dj:161:SER:HB3	2.40	0.52
2:Co:49:ASP:CB	3:Dp:161:SER:HB3	2.40	0.52
2:Cp:117:SER:OG	2:Cp:118:PHE:N	2.41	0.52
2:Cr:195:VAL:C	2:Cr:196:ILE:HG13	2.33	0.52
2:Ct:152:TYR:CE1	3:EA:60:PRO:HD3	2.45	0.52
2:Cw:69:TRP:HD1	2:Cw:70:PRO:N	2.07	0.52
2:Cx:228:ASN:ND2	3:EA:140:ALA:HB2	2.24	0.52
3:D1:100:TYR:CZ	3:D1:167:MET:HB2	2.45	0.52
3:D2:100:TYR:CZ	3:D2:167:MET:HB2	2.45	0.52
3:D3:90:VAL:HG11	3:D3:208:VAL:HG12	1.91	0.52
3:D4:56:ILE:HD13	3:D4:206:VAL:HG11	1.91	0.52
3:D4:90:VAL:HG11	3:D4:208:VAL:HG12	1.91	0.52
3:D7:108:PHE:HA	3:D7:205:LEU:O	2.09	0.52
3:D7:169:VAL:O	3:D7:169:VAL:HG12	2.09	0.52
3:D9:108:PHE:HA	3:D9:205:LEU:O	2.09	0.52
3:DA:48:LYS:HA	3:DA:210:ALA:HB3	1.90	0.52
3:DC:100:TYR:CZ	3:DC:167:MET:HB2	2.45	0.52
3:DD:56:ILE:HD13	3:DD:206:VAL:HG11	1.91	0.52
3:DF:100:TYR:CZ	3:DF:167:MET:HB2	2.45	0.52
3:DI:56:ILE:HG13	3:DI:74:PHE:HE1	1.72	0.52
3:DK:145:VAL:HG22	3:DK:188:LEU:HD12	1.91	0.52
3:DM:56:ILE:HD13	3:DM:206:VAL:HG11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DQ:100:TYR:CZ	3:DQ:167:MET:HB2	2.45	0.52
3:DR:100:TYR:CZ	3:DR:167:MET:HB2	2.45	0.52
3:DV:15:MET:HB3	3:DV:18:VAL:HG13	1.90	0.52
3:DX:100:TYR:CZ	3:DX:167:MET:HB2	2.45	0.52
3:DY:42:ASN:HD22	3:DY:44:ILE:N	2.08	0.52
3:DZ:56:ILE:HD13	3:DZ:206:VAL:HG11	1.91	0.52
3:Db:100:TYR:CZ	3:Db:167:MET:HB2	2.45	0.52
3:De:90:VAL:HG11	3:De:208:VAL:HG12	1.91	0.52
3:De:100:TYR:CZ	3:De:167:MET:HB2	2.45	0.52
3:Df:90:VAL:HG11	3:Df:208:VAL:HG12	1.91	0.52
3:Dg:100:TYR:CZ	3:Dg:167:MET:HB2	2.45	0.52
3:Di:100:TYR:CZ	3:Di:167:MET:HB2	2.45	0.52
3:Dj:100:TYR:CZ	3:Dj:167:MET:HB2	2.45	0.52
3:Dl:108:PHE:HA	3:Dl:205:LEU:O	2.09	0.52
3:Dm:56:ILE:HD13	3:Dm:206:VAL:HG11	1.91	0.52
3:Dn:145:VAL:HG22	3:Dn:188:LEU:HD12	1.91	0.52
3:EC:108:PHE:HA	3:EC:205:LEU:O	2.09	0.52
3:EC:169:VAL:O	3:EC:169:VAL:HG12	2.09	0.52
3:ED:169:VAL:HG12	3:ED:169:VAL:O	2.09	0.52
3:EE:48:LYS:HA	3:EE:210:ALA:HB3	1.90	0.52
4:F2:25:PHE:CD2	4:F2:26:TYR:CE1	2.98	0.52
4:FJ:25:PHE:CD2	4:FJ:26:TYR:CE1	2.98	0.52
4:FW:25:PHE:CD2	4:FW:26:TYR:CE1	2.98	0.52
4:FX:25:PHE:CD2	4:FX:26:TYR:CE1	2.98	0.52
1:A0:109:VAL:HG23	1:A0:161:THR:OG1	2.09	0.52
1:A0:219:TYR:OH	3:D1:34:ARG:HD2	2.08	0.52
1:A3:37:PHE:HA	1:A3:211:TYR:O	2.10	0.52
1:A4:86:ILE:HD12	1:A4:86:ILE:H	1.73	0.52
1:A5:48:LEU:HD21	1:A5:103:TRP:CE3	2.44	0.52
1:A5:108:PRO:HA	1:A5:161:THR:HG21	1.92	0.52
1:A5:149:SER:C	1:A5:151:SER:H	2.18	0.52
1:A5:157:SER:CB	3:D6:24:PRO:HA	2.36	0.52
1:A6:149:SER:C	1:A6:151:SER:H	2.18	0.52
1:A6:212:ARG:O	1:A6:214:PRO:HD2	2.09	0.52
1:A7:37:PHE:HA	1:A7:211:TYR:O	2.10	0.52
1:A7:76:THR:O	1:A7:169:VAL:HG23	2.10	0.52
1:A9:149:SER:C	1:A9:151:SER:H	2.18	0.52
1:A9:212:ARG:O	1:A9:214:PRO:HD2	2.09	0.52
1:AA:212:ARG:O	1:AA:214:PRO:HD2	2.09	0.52
1:AC:37:PHE:HA	1:AC:211:TYR:O	2.10	0.52
1:AC:149:SER:C	1:AC:151:SER:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:86:ILE:CD1	1:AE:86:ILE:H	2.23	0.52
1:AE:149:SER:C	1:AE:151:SER:H	2.18	0.52
1:AF:37:PHE:HA	1:AF:211:TYR:O	2.10	0.52
1:AF:184:TYR:HE2	2:CF:139:ALA:CB	2.23	0.52
1:AG:55:HIS:O	1:AG:194:SER:CB	2.56	0.52
1:AI:104:VAL:HG22	1:AI:197:LEU:HD21	1.90	0.52
1:AJ:109:VAL:HG23	1:AJ:161:THR:OG1	2.09	0.52
1:AL:76:THR:O	1:AL:169:VAL:HG23	2.10	0.52
1:AL:86:ILE:CD1	1:AL:86:ILE:H	2.23	0.52
1:AN:103:TRP:HB2	1:AN:198:THR:HG22	1.89	0.52
1:AN:184:TYR:HE2	2:CN:139:ALA:CB	2.23	0.52
1:AN:239:PHE:CD1	3:DN:170:TYR:CD2	2.96	0.52
1:AO:76:THR:O	1:AO:169:VAL:HG23	2.10	0.52
1:AP:184:TYR:HE2	2:CP:139:ALA:CB	2.23	0.52
1:AQ:104:VAL:HG22	1:AQ:197:LEU:HD21	1.90	0.52
1:AR:48:LEU:O	1:AR:131:GLN:NE2	2.43	0.52
1:AR:108:PRO:HA	1:AR:161:THR:HG21	1.92	0.52
1:AS:48:LEU:HD21	1:AS:103:TRP:CE3	2.44	0.52
1:AS:149:SER:C	1:AS:151:SER:H	2.18	0.52
1:AT:37:PHE:HA	1:AT:211:TYR:O	2.10	0.52
1:AT:110:GLY:H	1:AU:242:ASN:HB2	1.75	0.52
1:AU:86:ILE:HD12	1:AU:86:ILE:H	1.73	0.52
1:AV:37:PHE:HA	1:AV:211:TYR:O	2.10	0.52
1:AV:104:VAL:HG22	1:AV:197:LEU:HD21	1.90	0.52
1:AX:55:HIS:O	1:AX:194:SER:CB	2.56	0.52
1:AX:99:GLU:OE2	1:AX:101:PHE:HE1	1.92	0.52
1:AY:118:ALA:HB2	1:AY:132:GLN:NE2	2.23	0.52
1:AY:184:TYR:HE2	2:CZ:139:ALA:CB	2.23	0.52
1:AZ:48:LEU:HD21	1:AZ:103:TRP:CE3	2.44	0.52
1:AZ:99:GLU:OE2	1:AZ:101:PHE:HE1	1.92	0.52
1:AZ:149:SER:C	1:AZ:151:SER:H	2.18	0.52
1:Aa:104:VAL:HG22	1:Aa:197:LEU:HD21	1.90	0.52
1:Aa:149:SER:C	1:Aa:151:SER:H	2.18	0.52
1:Ab:108:PRO:HA	1:Ab:161:THR:HG21	1.92	0.52
1:Ac:184:TYR:HE2	2:Ce:139:ALA:CB	2.23	0.52
1:Ad:109:VAL:HG23	1:Ad:161:THR:OG1	2.09	0.52
1:Ae:108:PRO:HA	1:Ae:161:THR:HG21	1.92	0.52
1:Ae:184:TYR:HE2	2:Cg:139:ALA:CB	2.23	0.52
1:Ae:186:TRP:O	1:Ae:187:LEU:HB3	2.09	0.52
1:Af:109:VAL:HG23	1:Af:161:THR:OG1	2.09	0.52
1:Ah:149:SER:C	1:Ah:151:SER:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:184:TYR:HE2	2:Cj:139:ALA:CB	2.23	0.52
1:Ai:149:SER:C	1:Ai:151:SER:H	2.18	0.52
1:Ak:108:PRO:HA	1:Ak:161:THR:HG21	1.92	0.52
1:Ak:212:ARG:HG2	1:Ak:214:PRO:HD3	1.91	0.52
1:Ak:239:PHE:CD1	3:Dm:170:TYR:CD2	2.96	0.52
1:Am:37:PHE:HA	1:Am:211:TYR:O	2.10	0.52
1:Am:99:GLU:OE2	1:Am:101:PHE:HE1	1.92	0.52
1:An:37:PHE:HA	1:An:211:TYR:O	2.10	0.52
1:Ao:109:VAL:HG23	1:Ao:161:THR:OG1	2.09	0.52
1:Ao:149:SER:C	1:Ao:151:SER:H	2.18	0.52
1:BA:109:VAL:H	1:BA:161:THR:HB	1.74	0.52
1:BA:121:LEU:CD2	1:BB:206:GLY:HA3	2.39	0.52
1:BA:184:TYR:HE2	2:Cp:139:ALA:CB	2.23	0.52
1:BC:165:ARG:HD3	2:Cr:182:PRO:HG3	1.90	0.52
1:BD:108:PRO:HA	1:BD:161:THR:HG21	1.92	0.52
1:BE:37:PHE:HA	1:BE:211:TYR:O	2.10	0.52
1:BE:157:SER:CB	3:EA:24:PRO:HA	2.36	0.52
1:BF:149:SER:C	1:BF:151:SER:H	2.18	0.52
1:BG:86:ILE:CD1	1:BG:86:ILE:H	2.23	0.52
1:BG:99:GLU:OE2	1:BG:101:PHE:HE1	1.92	0.52
1:BI:184:TYR:HE2	2:Cx:139:ALA:CB	2.23	0.52
2:C1:49:ASP:CB	3:D2:161:SER:HB3	2.40	0.52
2:C1:115:ASN:OD1	3:DO:119:LYS:CD	2.58	0.52
2:C2:124:LEU:HD12	2:C2:163:LEU:HD12	1.92	0.52
2:C2:153:GLN:NE2	3:D2:55:SER:N	2.58	0.52
2:C4:228:ASN:ND2	3:D5:140:ALA:HB2	2.24	0.52
2:C7:49:ASP:CB	3:D8:161:SER:HB3	2.40	0.52
2:C8:24:ILE:HG23	3:D9:145:VAL:HB	1.92	0.52
2:C8:69:TRP:HD1	2:C8:70:PRO:N	2.07	0.52
2:CA:228:ASN:ND2	3:DB:140:ALA:HB2	2.24	0.52
2:CB:124:LEU:HD12	2:CB:163:LEU:HD12	1.91	0.52
2:CC:49:ASP:CB	3:DD:161:SER:HB3	2.40	0.52
2:CD:80:ILE:HG23	2:CD:82:PRO:HD3	1.91	0.52
2:CI:27:GLN:HG3	2:CI:28:GLY:H	1.73	0.52
2:CI:49:ASP:CB	3:DJ:161:SER:HB3	2.40	0.52
2:CJ:124:LEU:HD12	2:CJ:163:LEU:HD12	1.92	0.52
2:CJ:152:TYR:CD1	2:CJ:152:TYR:C	2.88	0.52
2:CL:80:ILE:HG23	2:CL:82:PRO:HD3	1.91	0.52
2:CL:152:TYR:CE1	3:DL:60:PRO:HD3	2.44	0.52
2:CM:24:ILE:HG23	3:Di:145:VAL:HB	1.92	0.52
2:CM:115:ASN:OD1	3:Di:119:LYS:CD	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:152:TYR:CE1	3:DM:60:PRO:HD3	2.45	0.52
2:CM:153:GLN:NE2	3:DM:55:SER:N	2.58	0.52
2:CM:228:ASN:ND2	3:DN:140:ALA:HB2	2.24	0.52
2:CN:228:ASN:ND2	3:DO:140:ALA:HB2	2.24	0.52
2:CO:152:TYR:CD1	2:CO:152:TYR:C	2.88	0.52
2:CQ:49:ASP:CB	3:DR:161:SER:HB3	2.40	0.52
2:CQ:124:LEU:HD12	2:CQ:163:LEU:HD12	1.92	0.52
2:CQ:152:TYR:CD1	2:CQ:152:TYR:C	2.88	0.52
2:CR:80:ILE:HG23	2:CR:82:PRO:HD3	1.91	0.52
2:CR:115:ASN:OD1	3:EE:119:LYS:CD	2.58	0.52
2:CU:69:TRP:HD1	2:CU:70:PRO:N	2.07	0.52
2:CX:124:LEU:HD12	2:CX:163:LEU:HD12	1.91	0.52
2:CY:124:LEU:HD12	2:CY:163:LEU:HD12	1.92	0.52
2:CY:152:TYR:CD1	2:CY:152:TYR:C	2.88	0.52
2:CY:153:GLN:NE2	3:DY:55:SER:N	2.58	0.52
2:CY:228:ASN:ND2	3:DU:140:ALA:HB2	2.24	0.52
2:CZ:152:TYR:CD1	2:CZ:152:TYR:C	2.88	0.52
2:Cd:152:TYR:CE1	3:Dd:60:PRO:HD3	2.45	0.52
2:Ce:27:GLN:HG3	2:Ce:28:GLY:H	1.73	0.52
2:Ce:69:TRP:CZ3	2:Ce:124:LEU:CG	2.92	0.52
2:Cf:69:TRP:CZ3	2:Cf:124:LEU:CG	2.92	0.52
2:Cf:115:ASN:OD1	3:DV:119:LYS:CD	2.58	0.52
2:Ch:69:TRP:HD1	2:Ch:70:PRO:N	2.07	0.52
2:Ci:69:TRP:HD1	2:Ci:70:PRO:N	2.07	0.52
2:Ci:152:TYR:CE1	3:Di:60:PRO:HD3	2.45	0.52
2:Co:152:TYR:CD1	2:Co:152:TYR:C	2.88	0.52
2:Cq:80:ILE:HG23	2:Cq:82:PRO:HD3	1.91	0.52
2:Cr:115:ASN:OD1	3:DI:119:LYS:CD	2.58	0.52
2:Cs:152:TYR:CE1	3:Ds:60:PRO:HD3	2.44	0.52
2:Ct:226:LEU:CD2	3:EB:126:PRO:HG2	2.36	0.52
2:Cu:24:ILE:HG23	3:D5:145:VAL:HB	1.92	0.52
2:Cu:69:TRP:CZ3	2:Cu:124:LEU:CG	2.92	0.52
2:Cu:115:ASN:OD1	3:D5:119:LYS:CD	2.58	0.52
2:Cv:49:ASP:CB	3:ED:161:SER:HB3	2.40	0.52
2:Cw:152:TYR:CE1	3:ED:60:PRO:HD3	2.44	0.52
2:Cx:115:ASN:OD1	3:Do:119:LYS:CD	2.57	0.52
2:Cx:152:TYR:CE1	3:EE:60:PRO:HD3	2.44	0.52
3:D1:108:PHE:HA	3:D1:205:LEU:O	2.09	0.52
3:D8:100:TYR:CZ	3:D8:167:MET:HB2	2.45	0.52
3:D9:169:VAL:HG12	3:D9:169:VAL:O	2.09	0.52
3:DA:100:TYR:CZ	3:DA:167:MET:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:145:VAL:HG22	3:DC:188:LEU:HD12	1.91	0.52
3:DD:100:TYR:CZ	3:DD:167:MET:HB2	2.45	0.52
3:DE:100:TYR:CZ	3:DE:167:MET:HB2	2.45	0.52
3:DF:42:ASN:HD22	3:DF:44:ILE:N	2.08	0.52
3:DJ:42:ASN:HD22	3:DJ:44:ILE:N	2.08	0.52
3:DJ:108:PHE:HA	3:DJ:205:LEU:O	2.09	0.52
3:DO:42:ASN:HD22	3:DO:44:ILE:N	2.08	0.52
3:DT:100:TYR:CZ	3:DT:167:MET:HB2	2.45	0.52
3:Db:56:ILE:HG13	3:Db:74:PHE:HE1	1.72	0.52
3:Dd:42:ASN:HD22	3:Dd:44:ILE:HG22	1.65	0.52
3:De:42:ASN:HD22	3:De:44:ILE:N	2.07	0.52
3:Dg:108:PHE:HA	3:Dg:205:LEU:O	2.09	0.52
3:Dh:108:PHE:HA	3:Dh:205:LEU:O	2.09	0.52
3:Dj:56:ILE:HD13	3:Dj:206:VAL:HG11	1.91	0.52
3:Dm:108:PHE:HA	3:Dm:205:LEU:O	2.09	0.52
3:Dp:90:VAL:HG11	3:Dp:208:VAL:HG12	1.91	0.52
3:Dq:90:VAL:HG11	3:Dq:208:VAL:HG12	1.91	0.52
3:Dr:108:PHE:HA	3:Dr:205:LEU:O	2.09	0.52
3:EC:100:TYR:CZ	3:EC:167:MET:HB2	2.45	0.52
3:EE:100:TYR:CZ	3:EE:167:MET:HB2	2.45	0.52
4:F5:25:PHE:CD2	4:F5:26:TYR:CE1	2.98	0.52
4:F8:25:PHE:CD2	4:F8:26:TYR:CE1	2.98	0.52
4:FA:25:PHE:CD2	4:FA:26:TYR:CE1	2.98	0.52
4:FI:25:PHE:CD2	4:FI:26:TYR:CE1	2.98	0.52
4:FK:25:PHE:CD2	4:FK:26:TYR:CE1	2.98	0.52
1:A0:108:PRO:HA	1:A0:161:THR:HG21	1.92	0.52
1:A0:109:VAL:H	1:A0:161:THR:HB	1.74	0.52
1:A1:108:PRO:HA	1:A1:161:THR:HG21	1.92	0.52
1:A2:108:PRO:HA	1:A2:161:THR:HG21	1.92	0.52
1:A2:118:ALA:HB2	1:A2:132:GLN:NE2	2.23	0.52
1:A3:76:THR:O	1:A3:169:VAL:HG23	2.10	0.52
1:A3:184:TYR:HE2	2:C4:139:ALA:CB	2.23	0.52
1:A5:212:ARG:O	1:A5:214:PRO:HD2	2.09	0.52
1:A7:212:ARG:O	1:A7:214:PRO:HD2	2.09	0.52
1:A8:108:PRO:HA	1:A8:161:THR:HG21	1.92	0.52
1:A9:165:ARG:HD3	2:Ca:182:PRO:HG3	1.90	0.52
1:AA:108:PRO:HA	1:AA:161:THR:HG21	1.92	0.52
1:AA:206:GLY:HA3	1:AE:121:LEU:CD2	2.39	0.52
1:AB:48:LEU:O	1:AB:131:GLN:NE2	2.43	0.52
1:AB:76:THR:O	1:AB:169:VAL:HG23	2.10	0.52
1:AB:165:ARG:HD3	2:CB:182:PRO:HG3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:121:LEU:CD2	1:AD:206:GLY:HA3	2.39	0.52
1:AC:212:ARG:O	1:AC:214:PRO:HD2	2.09	0.52
1:AD:48:LEU:O	1:AD:131:GLN:NE2	2.43	0.52
1:AD:76:THR:O	1:AD:169:VAL:HG23	2.10	0.52
1:AD:212:ARG:O	1:AD:214:PRO:HD2	2.09	0.52
1:AE:37:PHE:HA	1:AE:211:TYR:O	2.10	0.52
1:AE:48:LEU:HD21	1:AE:103:TRP:CE3	2.44	0.52
1:AE:108:PRO:HA	1:AE:161:THR:HG21	1.92	0.52
1:AE:184:TYR:HE2	2:CE:139:ALA:CB	2.23	0.52
1:AF:206:GLY:HA3	1:AJ:121:LEU:CD2	2.39	0.52
1:AG:48:LEU:HD21	1:AG:103:TRP:CE3	2.44	0.52
1:AG:108:PRO:HA	1:AG:161:THR:HG21	1.92	0.52
1:AG:184:TYR:HE2	2:CG:139:ALA:CB	2.23	0.52
1:AH:86:ILE:CD1	1:AH:86:ILE:H	2.23	0.52
1:AJ:48:LEU:O	1:AJ:131:GLN:NE2	2.43	0.52
1:AJ:76:THR:O	1:AJ:169:VAL:HG23	2.10	0.52
1:AJ:86:ILE:HD12	1:AJ:86:ILE:H	1.72	0.52
1:AK:186:TRP:O	1:AK:187:LEU:HB3	2.09	0.52
1:AN:212:ARG:O	1:AN:214:PRO:HD2	2.09	0.52
1:AO:48:LEU:HD21	1:AO:103:TRP:CE3	2.44	0.52
1:AP:110:GLY:H	1:AQ:242:ASN:HB2	1.75	0.52
1:AR:86:ILE:CD1	1:AR:86:ILE:H	2.23	0.52
1:AR:121:LEU:CD2	1:Ao:206:GLY:HA3	2.39	0.52
1:AT:109:VAL:HG23	1:AT:161:THR:OG1	2.09	0.52
1:AT:184:TYR:HE2	2:CU:139:ALA:CB	2.22	0.52
1:AV:109:VAL:HG23	1:AV:161:THR:OG1	2.09	0.52
1:AW:37:PHE:HA	1:AW:211:TYR:O	2.10	0.52
1:AW:48:LEU:HD21	1:AW:103:TRP:CE3	2.44	0.52
1:AW:184:TYR:HE2	2:CX:139:ALA:CB	2.23	0.52
1:AW:239:PHE:CD1	3:DX:170:TYR:CD2	2.96	0.52
1:AX:48:LEU:O	1:AX:131:GLN:NE2	2.43	0.52
1:Aa:219:TYR:OH	3:Dc:34:ARG:HD2	2.08	0.52
1:Ac:242:ASN:HB2	1:Ag:110:GLY:H	1.75	0.52
1:Ad:108:PRO:HA	1:Ad:161:THR:HG21	1.92	0.52
1:Ae:48:LEU:O	1:Ae:131:GLN:NE2	2.43	0.52
1:Af:48:LEU:HD21	1:Af:103:TRP:CE3	2.44	0.52
1:Af:48:LEU:O	1:Af:131:GLN:NE2	2.43	0.52
1:Ah:99:GLU:OE2	1:Ah:101:PHE:HE1	1.92	0.52
1:Ai:121:LEU:CD2	1:Aj:206:GLY:HA3	2.39	0.52
1:Ai:212:ARG:HG2	1:Ai:214:PRO:HD3	1.91	0.52
1:Al:48:LEU:HD21	1:Al:103:TRP:CE3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:An:76:THR:O	1:An:169:VAL:HG23	2.10	0.52
1:An:109:VAL:HG23	1:An:161:THR:OG1	2.09	0.52
1:BA:186:TRP:O	1:BA:187:LEU:HB3	2.09	0.52
1:BB:48:LEU:HD21	1:BB:103:TRP:CE3	2.44	0.52
1:BB:76:THR:O	1:BB:169:VAL:HG23	2.10	0.52
1:BB:99:GLU:OE2	1:BB:101:PHE:HE1	1.92	0.52
1:BC:149:SER:C	1:BC:151:SER:H	2.18	0.52
1:BD:149:SER:C	1:BD:151:SER:H	2.18	0.52
1:BE:48:LEU:O	1:BE:131:GLN:NE2	2.43	0.52
1:BF:86:ILE:HD12	1:BF:86:ILE:H	1.73	0.52
1:BF:108:PRO:HA	1:BF:161:THR:HG21	1.92	0.52
2:C0:115:ASN:OD1	3:DQ:119:LYS:CD	2.58	0.52
2:C3:24:ILE:HG23	3:DU:145:VAL:HB	1.92	0.52
2:C3:153:GLN:NE2	3:D3:55:SER:N	2.58	0.52
2:C5:49:ASP:CB	3:D6:161:SER:HB3	2.40	0.52
2:C5:69:TRP:CZ3	2:C5:124:LEU:CG	2.92	0.52
2:C5:152:TYR:CE1	3:D5:60:PRO:HD3	2.45	0.52
2:C6:152:TYR:CD1	2:C6:152:TYR:C	2.88	0.52
2:C7:115:ASN:OD1	3:Dm:119:LYS:CD	2.58	0.52
2:C9:153:GLN:NE2	3:D9:55:SER:N	2.58	0.52
2:CB:117:SER:OG	2:CB:118:PHE:N	2.41	0.52
2:CC:87:LYS:HG3	2:CC:142:TRP:CD2	2.45	0.52
2:CD:73:GLN:HA	2:CD:73:GLN:NE2	2.17	0.52
2:CE:153:GLN:NE2	3:DE:55:SER:N	2.58	0.52
2:CF:117:SER:OG	2:CF:118:PHE:N	2.41	0.52
2:CH:49:ASP:CB	3:DI:161:SER:HB3	2.40	0.52
2:CJ:115:ASN:HD22	3:DA:190:ALA:C	2.17	0.52
2:CL:124:LEU:HD12	2:CL:163:LEU:HD12	1.92	0.52
2:CM:49:ASP:CB	3:DN:161:SER:HB3	2.40	0.52
2:CM:124:LEU:HD12	2:CM:163:LEU:HD12	1.92	0.52
2:CN:115:ASN:OD1	3:D2:119:LYS:CD	2.57	0.52
2:CN:124:LEU:HD12	2:CN:163:LEU:HD12	1.92	0.52
2:CO:152:TYR:CE1	3:DO:60:PRO:HD3	2.45	0.52
2:CO:228:ASN:ND2	3:DK:140:ALA:HB2	2.24	0.52
2:CP:27:GLN:HG3	2:CP:28:GLY:H	1.73	0.52
2:CP:87:LYS:HG3	2:CP:142:TRP:CD2	2.45	0.52
2:CQ:228:ASN:ND2	3:DR:140:ALA:HB2	2.24	0.52
2:CR:153:GLN:NE2	3:DR:55:SER:N	2.58	0.52
2:CS:115:ASN:OD1	3:Dc:119:LYS:CD	2.58	0.52
2:CT:152:TYR:CE1	3:DT:60:PRO:HD3	2.45	0.52
2:CU:153:GLN:NE2	3:DU:55:SER:N	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:115:ASN:OD1	3:DB:119:LYS:CD	2.58	0.52
2:CV:152:TYR:CE1	3:DV:60:PRO:HD3	2.44	0.52
2:CW:124:LEU:HD12	2:CW:163:LEU:HD12	1.92	0.52
2:CX:69:TRP:HD1	2:CX:70:PRO:N	2.07	0.52
2:CY:87:LYS:HG3	2:CY:142:TRP:CD2	2.45	0.52
2:CY:195:VAL:C	2:CY:196:ILE:HG13	2.33	0.52
2:CZ:49:ASP:CB	3:D0:161:SER:HB3	2.40	0.52
2:CZ:124:LEU:HD12	2:CZ:163:LEU:HD12	1.91	0.52
2:CZ:153:GLN:NE2	3:DZ:55:SER:N	2.58	0.52
2:Ca:115:ASN:OD1	3:DL:119:LYS:CD	2.57	0.52
2:Cb:49:ASP:CB	3:Dc:161:SER:HB3	2.40	0.52
2:Cb:195:VAL:C	2:Cb:196:ILE:HG13	2.33	0.52
2:Cc:153:GLN:NE2	3:Dc:55:SER:N	2.58	0.52
2:Cf:27:GLN:HG3	2:Cf:28:GLY:H	1.74	0.52
2:Cf:49:ASP:CB	3:Dg:161:SER:HB3	2.40	0.52
2:Cg:195:VAL:C	2:Cg:196:ILE:HG13	2.33	0.52
2:Ch:152:TYR:CD1	2:Ch:152:TYR:C	2.88	0.52
2:Cl:153:GLN:NE2	3:Dl:55:SER:N	2.58	0.52
2:Cm:153:GLN:NE2	3:Dm:55:SER:N	2.58	0.52
2:Cm:228:ASN:ND2	3:Dn:140:ALA:HB2	2.24	0.52
2:Cn:24:ILE:HG23	3:De:145:VAL:HB	1.92	0.52
2:Co:69:TRP:HD1	2:Co:70:PRO:N	2.07	0.52
2:Cp:24:ILE:HG23	3:D0:145:VAL:HB	1.92	0.52
2:Cp:69:TRP:CZ3	2:Cp:124:LEU:CG	2.92	0.52
2:Cp:124:LEU:HD12	2:Cp:163:LEU:HD12	1.92	0.52
2:Cp:153:GLN:NE2	3:Dp:55:SER:N	2.58	0.52
2:Cq:69:TRP:CZ3	2:Cq:124:LEU:CG	2.92	0.52
2:Cr:152:TYR:CD1	2:Cr:152:TYR:C	2.88	0.52
2:Cr:153:GLN:NE2	3:Dr:55:SER:N	2.58	0.52
2:Cs:49:ASP:CB	3:Do:161:SER:HB3	2.40	0.52
2:Ct:115:ASN:OD1	3:DH:119:LYS:CD	2.58	0.52
2:Cu:152:TYR:CE1	3:EB:60:PRO:HD3	2.45	0.52
2:Cu:153:GLN:NE2	3:EB:55:SER:N	2.58	0.52
2:Cx:69:TRP:HD1	2:Cx:70:PRO:N	2.07	0.52
2:Cx:124:LEU:HD12	2:Cx:163:LEU:HD12	1.92	0.52
2:Cx:153:GLN:NE2	3:EE:55:SER:N	2.58	0.52
3:D1:56:ILE:HG13	3:D1:74:PHE:HE1	1.72	0.52
3:D4:100:TYR:CZ	3:D4:167:MET:HB2	2.45	0.52
3:D6:48:LYS:HA	3:D6:210:ALA:HB3	1.90	0.52
3:D6:56:ILE:HD13	3:D6:206:VAL:HG11	1.91	0.52
3:D6:169:VAL:O	3:D6:169:VAL:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:31:VAL:HG12	4:F8:35:ASP:HA	1.92	0.52
3:DE:15:MET:HB3	3:DE:18:VAL:HG13	1.90	0.52
3:DG:42:ASN:HD22	3:DG:44:ILE:HG22	1.65	0.52
3:DL:31:VAL:HG12	4:FL:35:ASP:HA	1.92	0.52
3:DM:169:VAL:O	3:DM:169:VAL:HG12	2.09	0.52
3:DN:100:TYR:CZ	3:DN:167:MET:HB2	2.45	0.52
3:DQ:15:MET:HB3	3:DQ:18:VAL:HG13	1.90	0.52
3:DU:56:ILE:HD13	3:DU:206:VAL:HG11	1.91	0.52
3:Da:100:TYR:CZ	3:Da:167:MET:HB2	2.45	0.52
3:Db:31:VAL:HG12	4:Fb:35:ASP:HA	1.92	0.52
3:Dd:42:ASN:HD22	3:Dd:44:ILE:N	2.08	0.52
3:Dh:100:TYR:CZ	3:Dh:167:MET:HB2	2.45	0.52
3:Dj:42:ASN:HD22	3:Dj:44:ILE:N	2.08	0.52
3:EB:31:VAL:HB	4:Fu:34:ILE:O	2.10	0.52
3:ED:100:TYR:CZ	3:ED:167:MET:HB2	2.45	0.52
4:Fd:25:PHE:CD2	4:Fd:26:TYR:CE1	2.98	0.52
4:Fx:25:PHE:CD2	4:Fx:26:TYR:CE1	2.98	0.52
1:A0:110:GLY:H	1:A1:242:ASN:HB2	1.75	0.52
1:A0:121:LEU:CD2	1:A1:206:GLY:HA3	2.39	0.52
1:A1:48:LEU:O	1:A1:131:GLN:NE2	2.43	0.52
1:A2:30:VAL:CG1	1:A2:218:MET:HE3	2.33	0.52
1:A2:184:TYR:HE2	2:C3:139:ALA:CB	2.23	0.52
1:A3:86:ILE:CD1	1:A3:86:ILE:H	2.23	0.52
1:A4:108:PRO:HA	1:A4:161:THR:HG21	1.92	0.52
1:A4:109:VAL:HG23	1:A4:161:THR:OG1	2.09	0.52
1:A4:184:TYR:HE2	2:C5:139:ALA:CB	2.23	0.52
1:A5:212:ARG:HG2	1:A5:214:PRO:HD3	1.91	0.52
1:A6:76:THR:O	1:A6:169:VAL:HG23	2.10	0.52
1:A7:184:TYR:HE2	2:C8:139:ALA:CB	2.23	0.52
1:A8:206:GLY:HA3	1:Ab:121:LEU:CD2	2.39	0.52
1:A8:212:ARG:O	1:A8:214:PRO:HD2	2.09	0.52
1:A9:37:PHE:HA	1:A9:211:TYR:O	2.10	0.52
1:A9:86:ILE:HD12	1:A9:86:ILE:H	1.73	0.52
1:A9:184:TYR:HE2	2:Ca:139:ALA:CB	2.23	0.52
1:AB:37:PHE:HA	1:AB:211:TYR:O	2.10	0.52
1:AB:212:ARG:HG2	1:AB:214:PRO:HD3	1.91	0.52
1:AD:110:GLY:H	1:AE:242:ASN:HB2	1.75	0.52
1:AE:104:VAL:HG22	1:AE:197:LEU:HD21	1.90	0.52
1:AE:186:TRP:O	1:AE:187:LEU:HB3	2.09	0.52
1:AF:76:THR:O	1:AF:169:VAL:HG23	2.10	0.52
1:AF:149:SER:C	1:AF:151:SER:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:86:ILE:CD1	1:AG:86:ILE:H	2.23	0.52
1:AG:149:SER:C	1:AG:151:SER:H	2.18	0.52
1:AH:37:PHE:HA	1:AH:211:TYR:O	2.10	0.52
1:AH:48:LEU:O	1:AH:131:GLN:NE2	2.43	0.52
1:AI:108:PRO:HA	1:AI:161:THR:HG21	1.92	0.52
1:AI:149:SER:C	1:AI:151:SER:H	2.18	0.52
1:AI:239:PHE:CD1	3:DI:170:TYR:CD2	2.96	0.52
1:AJ:48:LEU:HD21	1:AJ:103:TRP:CE3	2.44	0.52
1:AK:149:SER:C	1:AK:151:SER:H	2.18	0.52
1:AM:149:SER:C	1:AM:151:SER:H	2.18	0.52
1:AN:37:PHE:HA	1:AN:211:TYR:O	2.10	0.52
1:AO:48:LEU:O	1:AO:131:GLN:NE2	2.43	0.52
1:AO:99:GLU:OE2	1:AO:101:PHE:HE1	1.92	0.52
1:AP:157:SER:CB	3:DP:24:PRO:HA	2.36	0.52
1:AT:121:LEU:CD2	1:AU:206:GLY:HA3	2.39	0.52
1:AU:86:ILE:CD1	1:AU:86:ILE:H	2.23	0.52
1:AV:149:SER:C	1:AV:151:SER:H	2.18	0.52
1:AV:212:ARG:O	1:AV:214:PRO:HD2	2.09	0.52
1:AW:76:THR:O	1:AW:169:VAL:HG23	2.10	0.52
1:AW:99:GLU:OE2	1:AW:101:PHE:HE1	1.92	0.52
1:AW:109:VAL:HG23	1:AW:161:THR:OG1	2.09	0.52
1:AW:121:LEU:CD2	1:AX:206:GLY:HA3	2.39	0.52
1:AX:108:PRO:HA	1:AX:161:THR:HG21	1.92	0.52
1:AX:109:VAL:HG23	1:AX:161:THR:OG1	2.09	0.52
1:AY:76:THR:O	1:AY:169:VAL:HG23	2.10	0.52
1:AY:110:GLY:H	1:AZ:242:ASN:HB2	1.75	0.52
1:AZ:212:ARG:O	1:AZ:214:PRO:HD2	2.09	0.52
1:Aa:118:ALA:HB2	1:Aa:132:GLN:NE2	2.23	0.52
1:Ab:86:ILE:CD1	1:Ab:86:ILE:H	2.23	0.52
1:Ab:109:VAL:HG23	1:Ab:161:THR:OG1	2.09	0.52
1:Ab:149:SER:C	1:Ab:151:SER:H	2.18	0.52
1:Ab:212:ARG:O	1:Ab:214:PRO:HD2	2.09	0.52
1:Ac:109:VAL:H	1:Ac:161:THR:HB	1.74	0.52
1:Ac:121:LEU:CD2	1:Ad:206:GLY:HA3	2.39	0.52
1:Ad:239:PHE:CD1	3:Df:170:TYR:CD2	2.96	0.52
1:Ae:99:GLU:OE2	1:Ae:101:PHE:HE1	1.92	0.52
1:Af:76:THR:O	1:Af:169:VAL:HG23	2.10	0.52
1:Af:99:GLU:OE2	1:Af:101:PHE:HE1	1.92	0.52
1:Af:109:VAL:H	1:Af:161:THR:HB	1.74	0.52
1:Ag:37:PHE:HA	1:Ag:211:TYR:O	2.10	0.52
1:Ah:109:VAL:H	1:Ah:161:THR:HB	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:242:ASN:HB2	1:Al:110:GLY:H	1.75	0.52
1:Ai:48:LEU:HD21	1:Ai:103:TRP:CE3	2.44	0.52
1:Aj:37:PHE:HA	1:Aj:211:TYR:O	2.10	0.52
1:Al:186:TRP:O	1:Al:187:LEU:HB3	2.09	0.52
1:Am:30:VAL:CG1	1:Am:218:MET:HE3	2.34	0.52
1:Am:48:LEU:O	1:Am:131:GLN:NE2	2.43	0.52
1:Am:186:TRP:O	1:Am:187:LEU:HB3	2.09	0.52
1:An:149:SER:C	1:An:151:SER:H	2.18	0.52
1:An:184:TYR:HE2	2:Cb:139:ALA:CB	2.23	0.52
1:Ao:184:TYR:HE2	2:CS:139:ALA:CB	2.23	0.52
1:BA:37:PHE:HA	1:BA:211:TYR:O	2.10	0.52
1:BA:108:PRO:HA	1:BA:161:THR:HG21	1.92	0.52
1:BC:76:THR:O	1:BC:169:VAL:HG23	2.10	0.52
1:BC:121:LEU:CD2	1:BD:206:GLY:HA3	2.39	0.52
1:BD:109:VAL:H	1:BD:161:THR:HB	1.74	0.52
1:BE:109:VAL:H	1:BE:161:THR:HB	1.74	0.52
1:BE:242:ASN:HB2	1:BI:110:GLY:H	1.75	0.52
1:BF:212:ARG:O	1:BF:214:PRO:HD2	2.09	0.52
1:BG:37:PHE:HA	1:BG:211:TYR:O	2.10	0.52
1:BG:76:THR:O	1:BG:169:VAL:HG23	2.10	0.52
1:BG:104:VAL:HG22	1:BG:197:LEU:HD21	1.90	0.52
1:BG:184:TYR:HE2	2:Cv:139:ALA:CB	2.23	0.52
1:BG:212:ARG:HG2	1:BG:214:PRO:HD3	1.91	0.52
1:BH:121:LEU:CD2	1:BI:206:GLY:HA3	2.39	0.52
2:C2:69:TRP:CZ3	2:C2:124:LEU:CG	2.92	0.52
2:C4:69:TRP:HD1	2:C4:70:PRO:N	2.07	0.52
2:C5:124:LEU:HD12	2:C5:163:LEU:HD12	1.92	0.52
2:C6:195:VAL:C	2:C6:196:ILE:HG13	2.33	0.52
2:C7:24:ILE:HG23	3:Dm:145:VAL:HB	1.92	0.52
2:C7:152:TYR:CE1	3:D7:60:PRO:HD3	2.44	0.52
2:CE:69:TRP:HD1	2:CE:70:PRO:N	2.07	0.52
2:CF:24:ILE:HG23	3:D6:145:VAL:HB	1.92	0.52
2:CF:115:ASN:HD22	3:D6:190:ALA:C	2.17	0.52
2:CG:226:LEU:CD2	3:DH:126:PRO:HG2	2.36	0.52
2:CJ:49:ASP:CB	3:DF:161:SER:HB3	2.40	0.52
2:CK:69:TRP:HD1	2:CK:70:PRO:N	2.07	0.52
2:CL:153:GLN:NE2	3:DL:55:SER:N	2.58	0.52
2:CN:152:TYR:CE1	3:DN:60:PRO:HD3	2.45	0.52
2:CN:153:GLN:NE2	3:DN:55:SER:N	2.58	0.52
2:CO:49:ASP:CB	3:DK:161:SER:HB3	2.40	0.52
2:CP:124:LEU:HD12	2:CP:163:LEU:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CQ:153:GLN:NE2	3:DQ:55:SER:N	2.58	0.52
2:CR:124:LEU:HD12	2:CR:163:LEU:HD12	1.91	0.52
2:CS:80:ILE:HG23	2:CS:82:PRO:HD3	1.91	0.52
2:CS:87:LYS:HG3	2:CS:142:TRP:CD2	2.45	0.52
2:CS:124:LEU:HD12	2:CS:163:LEU:HD12	1.91	0.52
2:CS:152:TYR:CE1	3:DS:60:PRO:HD3	2.45	0.52
2:CT:69:TRP:HD1	2:CT:70:PRO:N	2.07	0.52
2:CY:80:ILE:HG23	2:CY:82:PRO:HD3	1.91	0.52
2:CY:115:ASN:OD1	3:DZ:119:LYS:CD	2.58	0.52
2:CZ:24:ILE:HG23	3:Dq:145:VAL:HB	1.92	0.52
2:Ca:117:SER:OG	2:Ca:118:PHE:N	2.41	0.52
2:Cc:69:TRP:CZ3	2:Cc:124:LEU:CG	2.92	0.52
2:Cc:87:LYS:HG3	2:Cc:142:TRP:CD2	2.45	0.52
2:Cd:153:GLN:NE2	3:Dd:55:SER:N	2.58	0.52
2:Ce:226:LEU:CD2	3:Df:126:PRO:HG2	2.36	0.52
2:Cg:69:TRP:CZ3	2:Cg:124:LEU:CG	2.92	0.52
2:Ch:27:GLN:HG3	2:Ch:28:GLY:H	1.73	0.52
2:Cj:195:VAL:C	2:Cj:196:ILE:HG13	2.33	0.52
2:Ck:24:ILE:HG23	3:Da:145:VAL:HB	1.92	0.52
2:Ck:115:ASN:OD1	3:Da:119:LYS:CD	2.58	0.52
2:Ck:226:LEU:CD2	3:Dl:126:PRO:HG2	2.36	0.52
2:Cl:49:ASP:CB	3:Dm:161:SER:HB3	2.40	0.52
2:Cn:69:TRP:CZ3	2:Cn:124:LEU:CG	2.92	0.52
2:Co:87:LYS:HG3	2:Co:142:TRP:CD2	2.45	0.52
3:D3:56:ILE:HD13	3:D3:206:VAL:HG11	1.91	0.52
3:D6:31:VAL:HB	4:F6:34:ILE:O	2.10	0.52
3:D6:31:VAL:HG12	4:F6:35:ASP:HA	1.92	0.52
3:D6:100:TYR:CZ	3:D6:167:MET:HB2	2.45	0.52
3:D6:108:PHE:HA	3:D6:205:LEU:O	2.09	0.52
3:D8:108:PHE:HA	3:D8:205:LEU:O	2.09	0.52
3:DJ:31:VAL:HB	4:FJ:34:ILE:O	2.10	0.52
3:DJ:56:ILE:HD13	3:DJ:206:VAL:HG11	1.91	0.52
3:DL:145:VAL:HG22	3:DL:188:LEU:HD12	1.91	0.52
3:DN:145:VAL:HG22	3:DN:188:LEU:HD12	1.91	0.52
3:DO:169:VAL:HG12	3:DO:169:VAL:O	2.09	0.52
3:DP:42:ASN:HD22	3:DP:44:ILE:N	2.08	0.52
3:DQ:31:VAL:HG12	4:FQ:35:ASP:HA	1.92	0.52
3:DR:56:ILE:HD13	3:DR:206:VAL:HG11	1.91	0.52
3:DR:108:PHE:HA	3:DR:205:LEU:O	2.09	0.52
3:DW:100:TYR:CZ	3:DW:167:MET:HB2	2.45	0.52
3:DW:108:PHE:HA	3:DW:205:LEU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DX:31:VAL:HB	4:FX:34:ILE:O	2.10	0.52
3:DY:56:ILE:HG13	3:DY:74:PHE:HE1	1.72	0.52
3:Dc:90:VAL:HG11	3:Dc:208:VAL:HG12	1.91	0.52
3:Dh:56:ILE:HG13	3:Dh:74:PHE:HE1	1.72	0.52
3:Dk:100:TYR:CZ	3:Dk:167:MET:HB2	2.45	0.52
3:Do:100:TYR:CZ	3:Do:167:MET:HB2	2.45	0.52
3:Do:108:PHE:HA	3:Do:205:LEU:O	2.09	0.52
3:Dp:145:VAL:HG22	3:Dp:188:LEU:HD12	1.91	0.52
3:Dq:31:VAL:HG12	4:Fq:35:ASP:HA	1.92	0.52
3:Ds:42:ASN:HD22	3:Ds:44:ILE:N	2.08	0.52
3:EB:169:VAL:O	3:EB:169:VAL:HG12	2.09	0.52
3:ED:56:ILE:HD13	3:ED:206:VAL:HG11	1.91	0.52
4:F4:25:PHE:CD2	4:F4:26:TYR:CE1	2.98	0.52
4:FZ:25:PHE:CD2	4:FZ:26:TYR:CE1	2.98	0.52
4:Fh:25:PHE:CD2	4:Fh:26:TYR:CE1	2.98	0.52
4:Fr:25:PHE:CD2	4:Fr:26:TYR:CE1	2.98	0.52
1:A0:76:THR:O	1:A0:169:VAL:HG23	2.10	0.52
1:A1:109:VAL:HG23	1:A1:161:THR:OG1	2.09	0.52
1:A1:184:TYR:HE2	2:C2:139:ALA:CB	2.23	0.52
1:A2:99:GLU:OE2	1:A2:101:PHE:HE1	1.92	0.52
1:A2:212:ARG:O	1:A2:214:PRO:HD2	2.09	0.52
1:A3:108:PRO:HA	1:A3:161:THR:HG21	1.92	0.52
1:A3:109:VAL:H	1:A3:161:THR:HB	1.74	0.52
1:A4:110:GLY:H	1:A5:242:ASN:HB2	1.75	0.52
1:A6:212:ARG:HG2	1:A6:214:PRO:HD3	1.91	0.52
1:A7:48:LEU:O	1:A7:131:GLN:NE2	2.43	0.52
1:A7:86:ILE:CD1	1:A7:86:ILE:H	2.23	0.52
1:A8:48:LEU:HD21	1:A8:103:TRP:CE3	2.44	0.52
1:A8:48:LEU:O	1:A8:131:GLN:NE2	2.43	0.52
1:AB:149:SER:C	1:AB:151:SER:H	2.18	0.52
1:AC:86:ILE:CD1	1:AC:86:ILE:H	2.23	0.52
1:AD:165:ARG:HD3	2:CD:182:PRO:HG3	1.90	0.52
1:AD:186:TRP:O	1:AD:187:LEU:HB3	2.09	0.52
1:AF:48:LEU:O	1:AF:131:GLN:NE2	2.43	0.52
1:AF:55:HIS:O	1:AF:194:SER:CB	2.56	0.52
1:AF:212:ARG:O	1:AF:214:PRO:HD2	2.09	0.52
1:AG:30:VAL:CG1	1:AG:218:MET:HE3	2.34	0.52
1:AG:37:PHE:HA	1:AG:211:TYR:O	2.10	0.52
1:AH:76:THR:O	1:AH:169:VAL:HG23	2.10	0.52
1:AI:48:LEU:O	1:AI:131:GLN:NE2	2.43	0.52
1:AJ:239:PHE:CD1	3:DJ:170:TYR:CD2	2.96	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:48:LEU:O	1:AK:131:GLN:NE2	2.43	0.52
1:AK:109:VAL:HG23	1:AK:161:THR:OG1	2.09	0.52
1:AK:184:TYR:HE2	2:CK:139:ALA:CB	2.22	0.52
1:AL:103:TRP:HB2	1:AL:198:THR:HG22	1.89	0.52
1:AM:22:VAL:C	1:AM:24:MET:H	2.18	0.52
1:AQ:22:VAL:C	1:AQ:24:MET:H	2.18	0.52
1:AQ:86:ILE:CD1	1:AQ:86:ILE:H	2.23	0.52
1:AQ:149:SER:C	1:AQ:151:SER:H	2.18	0.52
1:AR:212:ARG:O	1:AR:214:PRO:HD2	2.09	0.52
1:AS:37:PHE:HA	1:AS:211:TYR:O	2.10	0.52
1:AS:212:ARG:HG2	1:AS:214:PRO:HD3	1.91	0.52
1:AS:212:ARG:O	1:AS:214:PRO:HD2	2.09	0.52
1:AU:37:PHE:HA	1:AU:211:TYR:O	2.10	0.52
1:AU:76:THR:O	1:AU:169:VAL:HG23	2.10	0.52
1:AU:110:GLY:H	1:AV:242:ASN:HB2	1.75	0.52
1:AV:109:VAL:H	1:AV:161:THR:HB	1.74	0.52
1:AV:184:TYR:HE2	2:CW:139:ALA:CB	2.23	0.52
1:AW:181:LYS:HA	2:CX:137:GLU:HG3	1.89	0.52
1:AW:186:TRP:O	1:AW:187:LEU:HB3	2.09	0.52
1:AZ:76:THR:O	1:AZ:169:VAL:HG23	2.10	0.52
1:Aa:108:PRO:HA	1:Aa:161:THR:HG21	1.92	0.52
1:Ac:212:ARG:O	1:Ac:214:PRO:HD2	2.09	0.52
1:Ad:48:LEU:HD21	1:Ad:103:TRP:CE3	2.44	0.52
1:Ad:109:VAL:H	1:Ad:161:THR:HB	1.74	0.52
1:Ae:109:VAL:H	1:Ae:161:THR:HB	1.74	0.52
1:Ag:76:THR:O	1:Ag:169:VAL:HG23	2.10	0.52
1:Ah:104:VAL:HG22	1:Ah:197:LEU:HD21	1.90	0.52
1:Al:48:LEU:O	1:Al:131:GLN:NE2	2.43	0.52
1:Al:212:ARG:O	1:Al:214:PRO:HD2	2.09	0.52
1:Am:86:ILE:HD12	1:Am:86:ILE:H	1.73	0.52
1:An:86:ILE:HD12	1:An:86:ILE:H	1.73	0.52
1:Ao:165:ARG:HD3	2:CS:182:PRO:HG3	1.90	0.52
1:BA:86:ILE:CD1	1:BA:86:ILE:H	2.23	0.52
1:BB:37:PHE:HA	1:BB:211:TYR:O	2.10	0.52
1:BC:86:ILE:CD1	1:BC:86:ILE:H	2.23	0.52
1:BD:48:LEU:O	1:BD:131:GLN:NE2	2.43	0.52
1:BD:86:ILE:CD1	1:BD:86:ILE:H	2.23	0.52
1:BE:99:GLU:OE2	1:BE:101:PHE:HE1	1.92	0.52
1:BF:86:ILE:CD1	1:BF:86:ILE:H	2.23	0.52
1:BF:109:VAL:HG23	1:BF:161:THR:OG1	2.09	0.52
1:BH:103:TRP:HB2	1:BH:198:THR:HG22	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:149:SER:C	1:BI:151:SER:H	2.18	0.52
2:C0:152:TYR:CD1	2:C0:152:TYR:C	2.88	0.52
2:C1:87:LYS:HG3	2:C1:142:TRP:CD2	2.45	0.52
2:C2:69:TRP:HD1	2:C2:70:PRO:N	2.07	0.52
2:C4:24:ILE:HG23	3:EC:145:VAL:HB	1.92	0.52
2:C4:115:ASN:OD1	3:EC:119:LYS:CD	2.58	0.52
2:C4:117:SER:OG	2:C4:118:PHE:N	2.41	0.52
2:C6:115:ASN:OD1	3:DE:119:LYS:CD	2.57	0.52
2:C7:87:LYS:HG3	2:C7:142:TRP:CD2	2.45	0.52
2:CA:152:TYR:CE1	3:DA:60:PRO:HD3	2.45	0.52
2:CB:153:GLN:NE2	3:DB:55:SER:N	2.58	0.52
2:CF:153:GLN:NE2	3:DF:55:SER:N	2.58	0.52
2:CG:87:LYS:HG3	2:CG:142:TRP:CD2	2.45	0.52
2:CJ:27:GLN:HG3	2:CJ:28:GLY:H	1.73	0.52
2:CK:69:TRP:CZ3	2:CK:124:LEU:CG	2.92	0.52
2:CL:152:TYR:CD1	2:CL:152:TYR:C	2.88	0.52
2:CM:80:ILE:HG23	2:CM:82:PRO:HD3	1.91	0.52
2:CN:24:ILE:HG23	3:D2:145:VAL:HB	1.92	0.52
2:CP:24:ILE:HG23	3:D1:145:VAL:HB	1.92	0.52
2:CP:153:GLN:NE2	3:DP:55:SER:N	2.58	0.52
2:CP:228:ASN:ND2	3:DQ:140:ALA:HB2	2.24	0.52
2:CR:49:ASP:CB	3:DS:161:SER:HB3	2.40	0.52
2:CS:152:TYR:CD1	2:CS:152:TYR:C	2.88	0.52
2:CT:69:TRP:CZ3	2:CT:124:LEU:CG	2.92	0.52
2:CT:115:ASN:OD1	3:DK:119:LYS:CD	2.58	0.52
2:CX:153:GLN:NE2	3:DX:55:SER:N	2.58	0.52
2:CY:117:SER:OG	2:CY:118:PHE:N	2.41	0.52
2:Cb:228:ASN:ND2	3:Dc:140:ALA:HB2	2.24	0.52
2:Cd:24:ILE:HG23	3:D4:145:VAL:HB	1.92	0.52
2:Cd:27:GLN:HG3	2:Cd:28:GLY:H	1.74	0.52
2:Cd:152:TYR:CD1	2:Cd:152:TYR:C	2.88	0.52
2:Cd:195:VAL:C	2:Cd:196:ILE:HG13	2.33	0.52
2:Cf:152:TYR:CE1	3:Df:60:PRO:HD3	2.45	0.52
2:Cf:228:ASN:ND2	3:Dg:140:ALA:HB2	2.24	0.52
2:Cg:152:TYR:CD1	2:Cg:152:TYR:C	2.88	0.52
2:Cg:152:TYR:CE1	3:Dg:60:PRO:HD3	2.44	0.52
2:Ch:87:LYS:HG3	2:Ch:142:TRP:CD2	2.45	0.52
2:Ci:24:ILE:HG23	3:Dj:145:VAL:HB	1.92	0.52
2:Ci:87:LYS:HG3	2:Ci:142:TRP:CD2	2.45	0.52
2:Ck:87:LYS:HG3	2:Ck:142:TRP:CD2	2.45	0.52
2:Ck:152:TYR:CE1	3:Dk:60:PRO:HD3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cl:87:LYS:HG3	2:Cl:142:TRP:CD2	2.45	0.52
2:Cn:80:ILE:HG23	2:Cn:82:PRO:HD3	1.91	0.52
2:Co:115:ASN:HD22	3:DR:190:ALA:C	2.17	0.52
2:Cp:152:TYR:CE1	3:Dp:60:PRO:HD3	2.45	0.52
2:Cq:87:LYS:HG3	2:Cq:142:TRP:CD2	2.45	0.52
2:Cq:226:LEU:CD2	3:Dr:126:PRO:HG2	2.36	0.52
2:Cq:228:ASN:ND2	3:Dr:140:ALA:HB2	2.24	0.52
2:Cs:115:ASN:OD1	3:EA:119:LYS:CD	2.58	0.52
2:Ct:87:LYS:HG3	2:Ct:142:TRP:CD2	2.45	0.52
2:Cv:80:ILE:HG23	2:Cv:82:PRO:HD3	1.91	0.52
2:Cv:153:GLN:NE2	3:EC:55:SER:N	2.58	0.52
3:D0:31:VAL:HB	4:F0:34:ILE:O	2.10	0.52
3:D2:56:ILE:HD13	3:D2:206:VAL:HG11	1.91	0.52
3:D2:90:VAL:HG11	3:D2:208:VAL:HG12	1.91	0.52
3:D7:31:VAL:HG12	4:F7:35:ASP:HA	1.92	0.52
3:D8:90:VAL:HG11	3:D8:208:VAL:HG12	1.91	0.52
3:D9:90:VAL:HG11	3:D9:208:VAL:HG12	1.91	0.52
3:DA:31:VAL:HG12	4:FA:35:ASP:HA	1.92	0.52
3:DE:31:VAL:HG12	4:FE:35:ASP:HA	1.92	0.52
3:DH:108:PHE:HA	3:DH:205:LEU:O	2.09	0.52
3:DI:31:VAL:HB	4:FI:34:ILE:O	2.10	0.52
3:DI:31:VAL:HG12	4:FI:35:ASP:HA	1.92	0.52
3:DI:56:ILE:HD13	3:DI:206:VAL:HG11	1.91	0.52
3:DJ:145:VAL:HG22	3:DJ:188:LEU:HD12	1.91	0.52
3:DM:90:VAL:HG11	3:DM:208:VAL:HG12	1.91	0.52
3:DN:42:ASN:HD22	3:DN:44:ILE:N	2.08	0.52
3:DO:145:VAL:HG22	3:DO:188:LEU:HD12	1.91	0.52
3:DP:31:VAL:HB	4:FP:34:ILE:O	2.10	0.52
3:DP:90:VAL:HG11	3:DP:208:VAL:HG12	1.91	0.52
3:DP:100:TYR:CZ	3:DP:167:MET:HB2	2.45	0.52
3:DS:100:TYR:CZ	3:DS:167:MET:HB2	2.45	0.52
3:DU:100:TYR:CZ	3:DU:167:MET:HB2	2.45	0.52
3:DY:100:TYR:CZ	3:DY:167:MET:HB2	2.45	0.52
3:Da:56:ILE:HD13	3:Da:206:VAL:HG11	1.91	0.52
3:Dd:100:TYR:CZ	3:Dd:167:MET:HB2	2.45	0.52
3:Dg:42:ASN:HD22	3:Dg:44:ILE:N	2.08	0.52
3:Dj:108:PHE:HA	3:Dj:205:LEU:O	2.09	0.52
3:Dm:90:VAL:HG11	3:Dm:208:VAL:HG12	1.91	0.52
3:Dn:100:TYR:CZ	3:Dn:167:MET:HB2	2.45	0.52
3:Dp:56:ILE:HD13	3:Dp:206:VAL:HG11	1.91	0.52
3:Dq:100:TYR:CZ	3:Dq:167:MET:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dr:31:VAL:HG12	4:Fr:35:ASP:HA	1.92	0.52
3:EA:31:VAL:HB	4:Ft:34:ILE:O	2.10	0.52
3:EC:31:VAL:HB	4:Fv:34:ILE:O	2.10	0.52
3:ED:31:VAL:HB	4:Fw:34:ILE:O	2.10	0.52
3:ED:48:LYS:HA	3:ED:210:ALA:HB3	1.90	0.52
4:F7:25:PHE:CD2	4:F7:26:TYR:CE1	2.98	0.52
4:Fg:25:PHE:CD2	4:Fg:26:TYR:CE1	2.98	0.52
4:Fj:25:PHE:CD2	4:Fj:26:TYR:CE1	2.98	0.52
4:Fp:25:PHE:CD2	4:Fp:26:TYR:CE1	2.98	0.52
1:A0:86:ILE:HD12	1:A0:86:ILE:H	1.72	0.52
1:A0:103:TRP:HB2	1:A0:198:THR:HG22	1.89	0.52
1:A0:149:SER:C	1:A0:151:SER:H	2.18	0.52
1:A1:110:GLY:H	1:A2:242:ASN:HB2	1.75	0.52
1:A1:121:LEU:CD2	1:A2:206:GLY:HA3	2.39	0.52
1:A2:76:THR:O	1:A2:169:VAL:HG23	2.10	0.52
1:A3:22:VAL:C	1:A3:24:MET:H	2.18	0.52
1:A3:48:LEU:HD21	1:A3:103:TRP:CE3	2.44	0.52
1:A6:108:PRO:HA	1:A6:161:THR:HG21	1.92	0.52
1:A6:184:TYR:HE2	2:C7:139:ALA:CB	2.23	0.52
1:A7:22:VAL:C	1:A7:24:MET:H	2.18	0.52
1:A7:108:PRO:HA	1:A7:161:THR:HG21	1.92	0.52
1:A7:186:TRP:O	1:A7:187:LEU:HB3	2.09	0.52
1:A8:110:GLY:H	1:A9:242:ASN:HB2	1.75	0.52
1:AA:48:LEU:O	1:AA:131:GLN:NE2	2.43	0.52
1:AB:48:LEU:HD21	1:AB:103:TRP:CE3	2.44	0.52
1:AB:108:PRO:HA	1:AB:161:THR:HG21	1.92	0.52
1:AD:184:TYR:HE2	2:CD:139:ALA:CB	2.23	0.52
1:AE:48:LEU:O	1:AE:131:GLN:NE2	2.43	0.52
1:AE:76:THR:O	1:AE:169:VAL:HG23	2.10	0.52
1:AG:48:LEU:O	1:AG:131:GLN:NE2	2.43	0.52
1:AG:104:VAL:HG22	1:AG:197:LEU:HD21	1.90	0.52
1:AH:99:GLU:OE2	1:AH:101:PHE:HE1	1.92	0.52
1:AI:76:THR:O	1:AI:169:VAL:HG23	2.10	0.52
1:AJ:108:PRO:HA	1:AJ:161:THR:HG21	1.92	0.52
1:AJ:149:SER:C	1:AJ:151:SER:H	2.18	0.52
1:AK:109:VAL:H	1:AK:161:THR:HB	1.74	0.52
1:AK:110:GLY:H	1:AL:242:ASN:HB2	1.75	0.52
1:AL:37:PHE:HA	1:AL:211:TYR:O	2.10	0.52
1:AM:121:LEU:CD2	1:AN:206:GLY:HA3	2.39	0.52
1:AM:186:TRP:O	1:AM:187:LEU:HB3	2.09	0.52
1:AN:108:PRO:HA	1:AN:161:THR:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:22:VAL:C	1:AO:24:MET:H	2.18	0.52
1:AO:109:VAL:H	1:AO:161:THR:HB	1.74	0.52
1:AQ:86:ILE:HD12	1:AQ:86:ILE:H	1.72	0.52
1:AQ:108:PRO:HA	1:AQ:161:THR:HG21	1.92	0.52
1:AR:76:THR:O	1:AR:169:VAL:HG23	2.10	0.52
1:AR:109:VAL:HG23	1:AR:161:THR:OG1	2.09	0.52
1:AU:48:LEU:O	1:AU:131:GLN:NE2	2.43	0.52
1:AV:86:ILE:CD1	1:AV:86:ILE:H	2.23	0.52
1:AW:212:ARG:O	1:AW:214:PRO:HD2	2.09	0.52
1:AX:86:ILE:HD12	1:AX:86:ILE:H	1.72	0.52
1:AY:121:LEU:CD2	1:AZ:206:GLY:HA3	2.39	0.52
1:Aa:50:GLY:O	1:Aa:131:GLN:NE2	2.43	0.52
1:Aa:110:GLY:H	1:Ab:242:ASN:HB2	1.75	0.52
1:Aa:186:TRP:O	1:Aa:187:LEU:HB3	2.09	0.52
1:Ac:86:ILE:CD1	1:Ac:86:ILE:H	2.22	0.52
1:Ac:110:GLY:H	1:Ad:242:ASN:HB2	1.75	0.52
1:Ad:86:ILE:HD12	1:Ad:86:ILE:H	1.73	0.52
1:Ae:37:PHE:HA	1:Ae:211:TYR:O	2.10	0.52
1:Ae:104:VAL:HG22	1:Ae:197:LEU:HD21	1.90	0.52
1:Ae:110:GLY:H	1:Af:242:ASN:HB2	1.75	0.52
1:Af:37:PHE:HA	1:Af:211:TYR:O	2.10	0.52
1:Ag:48:LEU:HD21	1:Ag:103:TRP:CE3	2.44	0.52
1:Ai:219:TYR:OH	3:Dk:34:ARG:HD2	2.08	0.52
1:Aj:48:LEU:O	1:Aj:131:GLN:NE2	2.43	0.52
1:Aj:109:VAL:HG23	1:Aj:161:THR:OG1	2.09	0.52
1:Ak:37:PHE:HA	1:Ak:211:TYR:O	2.10	0.52
1:Ak:48:LEU:O	1:Ak:131:GLN:NE2	2.43	0.52
1:Ak:109:VAL:H	1:Ak:161:THR:HB	1.74	0.52
1:Ak:149:SER:C	1:Ak:151:SER:H	2.18	0.52
1:Al:99:GLU:OE2	1:Al:101:PHE:HE1	1.92	0.52
1:Al:108:PRO:HA	1:Al:161:THR:HG21	1.92	0.52
1:Am:22:VAL:C	1:Am:24:MET:H	2.18	0.52
1:An:186:TRP:O	1:An:187:LEU:HB3	2.09	0.52
1:BA:157:SER:CB	3:Dp:24:PRO:HA	2.36	0.52
1:BA:165:ARG:HD3	2:Cp:182:PRO:HG3	1.90	0.52
1:BC:212:ARG:O	1:BC:214:PRO:HD2	2.09	0.52
1:BD:37:PHE:HA	1:BD:211:TYR:O	2.10	0.52
1:BD:239:PHE:CD1	3:Ds:170:TYR:CD2	2.96	0.52
1:BE:219:TYR:OH	3:EA:34:ARG:HD2	2.08	0.52
1:BG:48:LEU:O	1:BG:131:GLN:NE2	2.43	0.52
1:BH:149:SER:C	1:BH:151:SER:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:212:ARG:O	1:BI:214:PRO:HD2	2.09	0.52
2:C0:195:VAL:C	2:C0:196:ILE:HG13	2.33	0.52
2:C1:152:TYR:CE1	3:D1:60:PRO:HD3	2.45	0.52
2:C2:24:ILE:HG23	3:Dh:145:VAL:HB	1.92	0.52
2:C3:87:LYS:HG3	2:C3:142:TRP:CD2	2.45	0.52
2:C3:124:LEU:HD12	2:C3:163:LEU:HD12	1.92	0.52
2:C4:87:LYS:HG3	2:C4:142:TRP:CD2	2.45	0.52
2:C4:124:LEU:HD12	2:C4:163:LEU:CD1	2.40	0.52
2:C5:152:TYR:C	2:C5:152:TYR:CD1	2.88	0.52
2:C8:49:ASP:CB	3:D4:161:SER:HB3	2.40	0.52
2:C8:153:GLN:NE2	3:D8:55:SER:N	2.58	0.52
2:C9:27:GLN:HG3	2:C9:28:GLY:H	1.73	0.52
2:CD:24:ILE:HG23	3:D7:145:VAL:HB	1.92	0.52
2:CD:69:TRP:CZ3	2:CD:124:LEU:CG	2.92	0.52
2:CD:152:TYR:CB	2:CD:197:LEU:HD22	2.40	0.52
2:CE:73:GLN:HA	2:CE:73:GLN:NE2	2.17	0.52
2:CE:152:TYR:CE1	3:DE:60:PRO:HD3	2.45	0.52
2:CF:69:TRP:CZ3	2:CF:124:LEU:CG	2.92	0.52
2:CF:69:TRP:HD1	2:CF:70:PRO:N	2.07	0.52
2:CF:87:LYS:HG3	2:CF:142:TRP:CD2	2.45	0.52
2:CF:152:TYR:CD1	2:CF:152:TYR:C	2.88	0.52
2:CG:124:LEU:HD12	2:CG:163:LEU:HD12	1.92	0.52
2:CJ:152:TYR:CE1	3:DJ:60:PRO:HD3	2.45	0.52
2:CK:27:GLN:HG3	2:CK:28:GLY:H	1.73	0.52
2:CM:69:TRP:CZ3	2:CM:124:LEU:CG	2.92	0.52
2:CP:152:TYR:CD1	2:CP:152:TYR:C	2.88	0.52
2:CQ:80:ILE:HG23	2:CQ:82:PRO:HD3	1.92	0.52
2:CS:27:GLN:HG3	2:CS:28:GLY:H	1.74	0.52
2:CS:69:TRP:HD1	2:CS:70:PRO:N	2.07	0.52
2:CT:24:ILE:HG23	3:DK:145:VAL:HB	1.92	0.52
2:CT:124:LEU:HD12	2:CT:163:LEU:HD12	1.91	0.52
2:CV:228:ASN:ND2	3:DW:140:ALA:HB2	2.24	0.52
2:CY:24:ILE:HG23	3:DZ:145:VAL:HB	1.92	0.52
2:CZ:152:TYR:CB	2:CZ:197:LEU:HD22	2.40	0.52
2:Ca:49:ASP:CB	3:Db:161:SER:HB3	2.40	0.52
2:Ca:69:TRP:HD1	2:Ca:70:PRO:N	2.07	0.52
2:Cb:209:VAL:N	2:Cb:210:PRO:CD	2.68	0.52
2:Ce:152:TYR:CD1	2:Ce:152:TYR:C	2.88	0.52
2:Cf:69:TRP:HD1	2:Cf:70:PRO:N	2.07	0.52
2:Ci:124:LEU:HD12	2:Ci:163:LEU:HD12	1.92	0.52
2:Cn:84:PRO:HG3	2:Cn:108:TRP:HH2	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Co:124:LEU:HD12	2:Co:163:LEU:HD12	1.92	0.52
2:Cs:152:TYR:CB	2:Cs:197:LEU:HD22	2.40	0.52
2:Cu:117:SER:OG	2:Cu:118:PHE:N	2.41	0.52
2:Cv:226:LEU:CD2	3:ED:126:PRO:HG2	2.36	0.52
2:Cv:228:ASN:ND2	3:ED:140:ALA:HB2	2.24	0.52
2:Cw:49:ASP:CB	3:EE:161:SER:HB3	2.40	0.52
2:Cw:87:LYS:HG3	2:Cw:142:TRP:CD2	2.45	0.52
3:D0:42:ASN:HD22	3:D0:44:ILE:HG22	1.65	0.52
3:D0:100:TYR:CZ	3:D0:167:MET:HB2	2.45	0.52
3:D3:100:TYR:CZ	3:D3:167:MET:HB2	2.45	0.52
3:D3:108:PHE:HA	3:D3:205:LEU:O	2.09	0.52
3:D7:31:VAL:HB	4:F7:34:ILE:O	2.10	0.52
3:D9:42:ASN:HD22	3:D9:44:ILE:N	2.08	0.52
3:DB:31:VAL:HB	4:FB:34:ILE:O	2.10	0.52
3:DB:100:TYR:CZ	3:DB:167:MET:HB2	2.45	0.52
3:DD:31:VAL:HB	4:FD:34:ILE:O	2.10	0.52
3:DI:42:ASN:HD22	3:DI:44:ILE:N	2.08	0.52
3:DI:100:TYR:CZ	3:DI:167:MET:HB2	2.45	0.52
3:DI:145:VAL:HG22	3:DI:188:LEU:HD12	1.91	0.52
3:DK:100:TYR:CZ	3:DK:167:MET:HB2	2.45	0.52
3:DM:100:TYR:CZ	3:DM:167:MET:HB2	2.45	0.52
3:DP:56:ILE:HD13	3:DP:206:VAL:HG11	1.91	0.52
3:DS:31:VAL:HB	4:FS:34:ILE:O	2.10	0.52
3:DS:90:VAL:HG11	3:DS:208:VAL:HG12	1.91	0.52
3:DU:42:ASN:HD22	3:DU:44:ILE:N	2.07	0.52
3:DW:48:LYS:HA	3:DW:210:ALA:HB3	1.90	0.52
3:DY:169:VAL:HG12	3:DY:169:VAL:O	2.09	0.52
3:DZ:31:VAL:HB	4:FZ:34:ILE:O	2.10	0.52
3:DZ:48:LYS:HA	3:DZ:210:ALA:HB3	1.90	0.52
3:Dc:31:VAL:HB	4:Fc:34:ILE:O	2.10	0.52
3:Dc:100:TYR:CZ	3:Dc:167:MET:HB2	2.45	0.52
3:Df:48:LYS:HA	3:Df:210:ALA:HB3	1.90	0.52
3:Dh:56:ILE:HD13	3:Dh:206:VAL:HG11	1.91	0.52
3:Di:56:ILE:HD13	3:Di:206:VAL:HG11	1.91	0.52
3:Di:108:PHE:HA	3:Di:205:LEU:O	2.09	0.52
3:Dj:90:VAL:HG11	3:Dj:208:VAL:HG12	1.91	0.52
3:Dk:31:VAL:HB	4:Fk:34:ILE:O	2.10	0.52
3:Dm:100:TYR:CZ	3:Dm:167:MET:HB2	2.45	0.52
3:Dm:145:VAL:HG22	3:Dm:188:LEU:HD12	1.91	0.52
3:Dm:169:VAL:O	3:Dm:169:VAL:HG12	2.09	0.52
3:Dr:169:VAL:O	3:Dr:169:VAL:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ds:31:VAL:HB	4:Fs:34:ILE:O	2.10	0.52
3:EA:56:ILE:HG13	3:EA:74:PHE:HE1	1.72	0.52
3:EB:145:VAL:HG22	3:EB:188:LEU:HD12	1.91	0.52
4:F0:25:PHE:CD2	4:F0:26:TYR:CE1	2.98	0.52
4:FE:25:PHE:CD2	4:FE:26:TYR:CE1	2.98	0.52
4:Fe:25:PHE:CD2	4:Fe:26:TYR:CE1	2.98	0.52
4:Fl:25:PHE:CD2	4:Fl:26:TYR:CE1	2.98	0.52
4:Fs:25:PHE:CD2	4:Fs:26:TYR:CE1	2.98	0.52
1:A1:104:VAL:HG22	1:A1:197:LEU:HD21	1.90	0.52
1:A2:121:LEU:CD2	1:AY:206:GLY:HA3	2.39	0.52
1:A3:109:VAL:HG23	1:A3:161:THR:OG1	2.09	0.52
1:A5:110:GLY:H	1:A6:242:ASN:HB2	1.75	0.52
1:A5:186:TRP:O	1:A5:187:LEU:HB3	2.09	0.52
1:A6:22:VAL:C	1:A6:24:MET:H	2.18	0.52
1:A6:186:TRP:O	1:A6:187:LEU:HB3	2.09	0.52
1:A7:239:PHE:CD1	3:D8:170:TYR:CD2	2.96	0.52
1:A8:22:VAL:C	1:A8:24:MET:H	2.18	0.52
1:A8:242:ASN:HB2	1:Ab:110:GLY:H	1.75	0.52
1:AA:76:THR:O	1:AA:169:VAL:HG23	2.10	0.52
1:AA:86:ILE:CD1	1:AA:86:ILE:H	2.23	0.52
1:AA:149:SER:C	1:AA:151:SER:H	2.18	0.52
1:AA:186:TRP:O	1:AA:187:LEU:HB3	2.09	0.52
1:AB:184:TYR:HE2	2:CB:139:ALA:CB	2.23	0.52
1:AC:22:VAL:C	1:AC:24:MET:H	2.18	0.52
1:AC:48:LEU:HD21	1:AC:103:TRP:CE3	2.44	0.52
1:AC:157:SER:CB	3:DC:24:PRO:HA	2.35	0.52
1:AD:86:ILE:HD12	1:AD:86:ILE:H	1.72	0.52
1:AE:239:PHE:CD1	3:DE:170:TYR:CD2	2.96	0.52
1:AF:108:PRO:HA	1:AF:161:THR:HG21	1.92	0.52
1:AF:121:LEU:CD2	1:AG:206:GLY:HA3	2.39	0.52
1:AG:186:TRP:O	1:AG:187:LEU:HB3	2.09	0.52
1:AJ:104:VAL:HG22	1:AJ:197:LEU:HD21	1.90	0.52
1:AK:86:ILE:CD1	1:AK:86:ILE:H	2.23	0.52
1:AK:242:ASN:HB2	1:AO:110:GLY:H	1.75	0.52
1:AM:50:GLY:O	1:AM:131:GLN:NE2	2.43	0.52
1:AO:212:ARG:HG2	1:AO:214:PRO:HD3	1.91	0.52
1:AR:99:GLU:OE2	1:AR:101:PHE:HE1	1.92	0.52
1:AR:149:SER:C	1:AR:151:SER:H	2.18	0.52
1:AU:149:SER:C	1:AU:151:SER:H	2.18	0.52
1:AV:22:VAL:C	1:AV:24:MET:H	2.18	0.52
1:AV:50:GLY:O	1:AV:131:GLN:NE2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:110:GLY:H	1:AW:242:ASN:HB2	1.75	0.52
1:AV:212:ARG:HG2	1:AV:214:PRO:HD3	1.91	0.52
1:AX:48:LEU:HD21	1:AX:103:TRP:CE3	2.44	0.52
1:AX:109:VAL:H	1:AX:161:THR:HB	1.74	0.52
1:AZ:186:TRP:O	1:AZ:187:LEU:HB3	2.09	0.52
1:AZ:212:ARG:HG2	1:AZ:214:PRO:HD3	1.91	0.52
1:Aa:22:VAL:C	1:Aa:24:MET:H	2.18	0.52
1:Aa:86:ILE:CD1	1:Aa:86:ILE:H	2.23	0.52
1:Ab:48:LEU:HD21	1:Ab:103:TRP:CE3	2.44	0.52
1:Ab:157:SER:CB	3:Dd:24:PRO:HA	2.35	0.52
1:Ad:37:PHE:HA	1:Ad:211:TYR:O	2.10	0.52
1:Ad:48:LEU:O	1:Ad:131:GLN:NE2	2.43	0.52
1:Af:108:PRO:HA	1:Af:161:THR:HG21	1.92	0.52
1:Af:212:ARG:HG2	1:Af:214:PRO:HD3	1.91	0.52
1:Ai:37:PHE:HA	1:Ai:211:TYR:O	2.10	0.52
1:Ai:86:ILE:CD1	1:Ai:86:ILE:H	2.23	0.52
1:Aj:212:ARG:O	1:Aj:214:PRO:HD2	2.09	0.52
1:Ak:22:VAL:C	1:Ak:24:MET:H	2.18	0.52
1:Am:48:LEU:HD21	1:Am:103:TRP:CE3	2.44	0.52
1:Am:121:LEU:CD2	1:BA:206:GLY:HA3	2.39	0.52
1:Am:206:GLY:HA3	1:BD:121:LEU:CD2	2.39	0.52
1:An:86:ILE:CD1	1:An:86:ILE:H	2.23	0.52
1:An:165:ARG:HD3	2:Cb:182:PRO:HG3	1.90	0.52
1:An:212:ARG:O	1:An:214:PRO:HD2	2.09	0.52
1:Ao:22:VAL:C	1:Ao:24:MET:H	2.18	0.52
1:BA:110:GLY:H	1:BB:242:ASN:HB2	1.75	0.52
1:BC:108:PRO:HA	1:BC:161:THR:HG21	1.92	0.52
1:BD:22:VAL:C	1:BD:24:MET:H	2.18	0.52
1:BE:86:ILE:HD12	1:BE:86:ILE:H	1.73	0.52
1:BF:239:PHE:CD1	3:EB:170:TYR:CD2	2.96	0.52
1:BG:121:LEU:CD2	1:BH:206:GLY:HA3	2.39	0.52
1:BI:37:PHE:HA	1:BI:211:TYR:O	2.10	0.52
2:C1:153:GLN:NE2	3:D1:55:SER:N	2.58	0.52
2:C2:124:LEU:HD12	2:C2:163:LEU:CD1	2.40	0.52
2:C2:152:TYR:CD1	2:C2:152:TYR:C	2.88	0.52
2:C2:228:ASN:ND2	3:D3:140:ALA:HB2	2.24	0.52
2:C3:152:TYR:CD1	2:C3:152:TYR:C	2.88	0.52
2:C3:152:TYR:CE1	3:D3:60:PRO:HD3	2.45	0.52
2:C4:226:LEU:CD2	3:D5:126:PRO:HG2	2.36	0.52
2:C6:104:VAL:HG22	2:C6:222:VAL:HG13	1.92	0.52
2:C7:153:GLN:NE2	3:D7:55:SER:N	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:115:ASN:OD1	3:D9:119:LYS:CD	2.58	0.52
2:C9:104:VAL:HG22	2:C9:222:VAL:HG13	1.92	0.52
2:C9:228:ASN:ND2	3:Da:140:ALA:HB2	2.24	0.52
2:CA:73:GLN:HA	2:CA:73:GLN:NE2	2.17	0.52
2:CA:80:ILE:HG23	2:CA:82:PRO:HD3	1.91	0.52
2:CB:27:GLN:HG3	2:CB:28:GLY:H	1.73	0.52
2:CB:87:LYS:HG3	2:CB:142:TRP:CD2	2.45	0.52
2:CB:152:TYR:CD1	2:CB:152:TYR:C	2.88	0.52
2:CC:115:ASN:OD1	3:Dn:119:LYS:CD	2.57	0.52
2:CE:152:TYR:CD1	2:CE:152:TYR:C	2.88	0.52
2:CG:209:VAL:N	2:CG:210:PRO:CD	2.68	0.52
2:CH:152:TYR:CD1	2:CH:152:TYR:C	2.88	0.52
2:CI:152:TYR:CB	2:CI:197:LEU:HD22	2.40	0.52
2:CI:153:GLN:NE2	3:DI:55:SER:N	2.58	0.52
2:CJ:69:TRP:HD1	2:CJ:70:PRO:N	2.07	0.52
2:CJ:80:ILE:HG23	2:CJ:82:PRO:HD3	1.91	0.52
2:CM:87:LYS:HG3	2:CM:142:TRP:CD2	2.45	0.52
2:CP:80:ILE:HG23	2:CP:82:PRO:HD3	1.91	0.52
2:CP:152:TYR:CB	2:CP:197:LEU:HD22	2.40	0.52
2:CQ:57:THR:HB	2:Co:52:THR:OG1	2.10	0.52
2:CQ:152:TYR:CE1	3:DQ:60:PRO:HD3	2.45	0.52
2:CR:152:TYR:CE1	3:DR:60:PRO:HD3	2.45	0.52
2:CT:49:ASP:CB	3:DP:161:SER:HB3	2.40	0.52
2:CW:49:ASP:CB	3:DX:161:SER:HB3	2.40	0.52
2:CW:124:LEU:HD12	2:CW:163:LEU:CD1	2.40	0.52
2:CZ:104:VAL:HG22	2:CZ:222:VAL:HG13	1.92	0.52
2:CZ:115:ASN:OD1	3:Dq:119:LYS:CD	2.58	0.52
2:Ca:124:LEU:HD12	2:Ca:163:LEU:HD12	1.92	0.52
2:Cb:80:ILE:HG23	2:Cb:82:PRO:HD3	1.91	0.52
2:Cb:152:TYR:CB	2:Cb:197:LEU:HD22	2.40	0.52
2:Cc:152:TYR:CD1	2:Cc:152:TYR:C	2.88	0.52
2:Ce:152:TYR:CB	2:Ce:197:LEU:HD22	2.40	0.52
2:Ci:80:ILE:HG23	2:Ci:82:PRO:HD3	1.91	0.52
2:Ci:228:ASN:ND2	3:De:140:ALA:HB2	2.24	0.52
2:Cj:49:ASP:CB	3:Dk:161:SER:HB3	2.40	0.52
2:Cj:124:LEU:HD12	2:Cj:163:LEU:HD12	1.92	0.52
2:Ck:124:LEU:HD12	2:Ck:163:LEU:HD12	1.92	0.52
2:Ck:153:GLN:NE2	3:Dk:55:SER:N	2.58	0.52
2:Cl:24:ILE:HG23	3:D8:145:VAL:HB	1.92	0.52
2:Cl:115:ASN:OD1	3:D8:119:LYS:CD	2.57	0.52
2:Cl:226:LEU:CD2	3:Dm:126:PRO:HG2	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cm:124:LEU:HD12	2:Cm:163:LEU:HD12	1.92	0.52
2:Co:115:ASN:OD1	3:DR:119:LYS:CD	2.57	0.52
2:Cq:152:TYR:CB	2:Cq:197:LEU:HD22	2.40	0.52
2:Cs:153:GLN:NE2	3:Ds:55:SER:N	2.58	0.52
2:Cv:115:ASN:OD1	3:Dd:119:LYS:CD	2.58	0.52
2:Cw:104:VAL:HG22	2:Cw:222:VAL:HG13	1.92	0.52
3:D5:169:VAL:O	3:D5:169:VAL:HG12	2.09	0.52
3:D7:100:TYR:CZ	3:D7:167:MET:HB2	2.45	0.52
3:DF:169:VAL:O	3:DF:169:VAL:HG12	2.09	0.52
3:DG:100:TYR:CZ	3:DG:167:MET:HB2	2.45	0.52
3:DU:31:VAL:HB	4:FU:34:ILE:O	2.10	0.52
3:DU:108:PHE:HA	3:DU:205:LEU:O	2.09	0.52
3:DV:31:VAL:HB	4:FV:34:ILE:O	2.10	0.52
3:Db:169:VAL:O	3:Db:169:VAL:HG12	2.09	0.52
3:Dd:31:VAL:HB	4:Fd:34:ILE:O	2.10	0.52
3:Dd:90:VAL:HG11	3:Dd:208:VAL:HG12	1.91	0.52
3:De:31:VAL:HG12	4:Fe:35:ASP:HA	1.92	0.52
3:Df:100:TYR:CZ	3:Df:167:MET:HB2	2.45	0.52
3:Dg:90:VAL:HG11	3:Dg:208:VAL:HG12	1.91	0.52
3:Dk:90:VAL:HG11	3:Dk:208:VAL:HG12	1.91	0.52
3:Dp:31:VAL:HB	4:Fp:34:ILE:O	2.10	0.52
3:Dq:42:ASN:HD22	3:Dq:44:ILE:N	2.08	0.52
3:Dr:42:ASN:HD22	3:Dr:44:ILE:N	2.08	0.52
3:Ds:169:VAL:O	3:Ds:169:VAL:HG12	2.09	0.52
3:EB:103:SER:HB3	3:EB:159:PRO:CA	2.35	0.52
3:EC:42:ASN:HD22	3:EC:44:ILE:N	2.08	0.52
4:FB:25:PHE:CD2	4:FB:26:TYR:CE1	2.98	0.52
4:FQ:25:PHE:CD2	4:FQ:26:TYR:CE1	2.98	0.52
4:FS:25:PHE:CD2	4:FS:26:TYR:CE1	2.98	0.52
1:A2:37:PHE:HA	1:A2:211:TYR:O	2.10	0.52
1:A4:48:LEU:O	1:A4:131:GLN:NE2	2.43	0.52
1:A4:186:TRP:O	1:A4:187:LEU:HB3	2.09	0.52
1:A5:76:THR:O	1:A5:169:VAL:HG23	2.10	0.52
1:A5:109:VAL:H	1:A5:161:THR:HB	1.74	0.52
1:A7:103:TRP:HB2	1:A7:198:THR:HG22	1.89	0.52
1:A9:48:LEU:O	1:A9:131:GLN:NE2	2.43	0.52
1:A9:76:THR:O	1:A9:169:VAL:HG23	2.10	0.52
1:A9:109:VAL:H	1:A9:161:THR:HB	1.74	0.52
1:A9:121:LEU:CD2	1:An:206:GLY:HA3	2.39	0.52
1:AA:99:GLU:OE2	1:AA:101:PHE:HE1	1.92	0.52
1:AA:110:GLY:H	1:AB:242:ASN:HB2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:86:ILE:CD1	1:AB:86:ILE:H	2.23	0.52
1:AC:184:TYR:HE2	2:CC:139:ALA:CB	2.22	0.52
1:AD:149:SER:C	1:AD:151:SER:H	2.18	0.52
1:AF:86:ILE:CD1	1:AF:86:ILE:H	2.23	0.52
1:AF:186:TRP:O	1:AF:187:LEU:HB3	2.09	0.52
1:AG:110:GLY:H	1:AH:242:ASN:HB2	1.75	0.52
1:AI:22:VAL:C	1:AI:24:MET:H	2.18	0.52
1:AI:109:VAL:H	1:AI:161:THR:HB	1.74	0.52
1:AJ:109:VAL:H	1:AJ:161:THR:HB	1.74	0.52
1:AJ:165:ARG:HD3	2:CJ:182:PRO:HG3	1.90	0.52
1:AJ:212:ARG:O	1:AJ:214:PRO:HD2	2.09	0.52
1:AL:22:VAL:C	1:AL:24:MET:H	2.18	0.52
1:AL:110:GLY:H	1:AM:242:ASN:HB2	1.75	0.52
1:AL:121:LEU:CD2	1:AM:206:GLY:HA3	2.39	0.52
1:AP:22:VAL:C	1:AP:24:MET:H	2.18	0.52
1:AP:76:THR:O	1:AP:169:VAL:HG23	2.10	0.52
1:AP:108:PRO:HA	1:AP:161:THR:HG21	1.92	0.52
1:AQ:48:LEU:O	1:AQ:131:GLN:NE2	2.43	0.52
1:AQ:76:THR:O	1:AQ:169:VAL:HG23	2.10	0.52
1:AR:37:PHE:HA	1:AR:211:TYR:O	2.10	0.52
1:AS:48:LEU:O	1:AS:131:GLN:NE2	2.43	0.52
1:AS:86:ILE:CD1	1:AS:86:ILE:H	2.23	0.52
1:AT:99:GLU:OE2	1:AT:101:PHE:HE1	1.92	0.52
1:AT:108:PRO:HA	1:AT:161:THR:HG21	1.92	0.52
1:AV:157:SER:CB	3:DW:24:PRO:HA	2.36	0.52
1:AW:108:PRO:HA	1:AW:161:THR:HG21	1.92	0.52
1:AW:149:SER:C	1:AW:151:SER:H	2.18	0.52
1:AY:109:VAL:H	1:AY:161:THR:HB	1.74	0.52
1:Aa:86:ILE:HD12	1:Aa:86:ILE:H	1.73	0.52
1:Ab:37:PHE:HA	1:Ab:211:TYR:O	2.10	0.52
1:Ac:22:VAL:C	1:Ac:24:MET:H	2.18	0.52
1:Ac:206:GLY:HA3	1:Ag:121:LEU:CD2	2.39	0.52
1:Ad:76:THR:O	1:Ad:169:VAL:HG23	2.10	0.52
1:Ad:165:ARG:HD3	2:Cf:182:PRO:HG3	1.90	0.52
1:Ag:86:ILE:CD1	1:Ag:86:ILE:H	2.23	0.52
1:Ah:48:LEU:O	1:Ah:131:GLN:NE2	2.43	0.52
1:Ai:184:TYR:HE2	2:Ck:139:ALA:CB	2.22	0.52
1:Aj:108:PRO:HA	1:Aj:161:THR:HG21	1.92	0.52
1:Ak:76:THR:O	1:Ak:169:VAL:HG23	2.10	0.52
1:Am:212:ARG:O	1:Am:214:PRO:HD2	2.09	0.52
1:Ao:48:LEU:O	1:Ao:131:GLN:NE2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:99:GLU:OE2	1:BC:101:PHE:HE1	1.92	0.52
1:BC:184:TYR:HE2	2:Cr:139:ALA:CB	2.23	0.52
1:BE:110:GLY:H	1:BF:242:ASN:HB2	1.75	0.52
1:BE:121:LEU:CD2	1:BF:206:GLY:HA3	2.39	0.52
1:BF:121:LEU:CD2	1:BG:206:GLY:HA3	2.39	0.52
1:BG:109:VAL:HG23	1:BG:161:THR:OG1	2.09	0.52
1:BH:109:VAL:H	1:BH:161:THR:HB	1.74	0.52
2:C0:49:ASP:CB	3:D1:161:SER:HB3	2.40	0.52
2:C0:104:VAL:HG22	2:C0:222:VAL:HG13	1.92	0.52
2:C0:152:TYR:CB	2:C0:197:LEU:HD22	2.40	0.52
2:C0:152:TYR:CE1	3:D0:60:PRO:HD3	2.45	0.52
2:C0:226:LEU:CD2	3:D1:126:PRO:HG2	2.36	0.52
2:C4:152:TYR:CD1	2:C4:152:TYR:C	2.88	0.52
2:C5:27:GLN:HG3	2:C5:28:GLY:H	1.73	0.52
2:C6:24:ILE:HG23	3:DE:145:VAL:HB	1.92	0.52
2:C6:152:TYR:CB	2:C6:197:LEU:HD22	2.40	0.52
2:C7:73:GLN:HA	2:C7:73:GLN:NE2	2.17	0.52
2:C7:152:TYR:CB	2:C7:197:LEU:HD22	2.40	0.52
2:C8:124:LEU:HD12	2:C8:163:LEU:CD1	2.40	0.52
2:C9:124:LEU:HD12	2:C9:163:LEU:CD1	2.40	0.52
2:CA:115:ASN:OD1	3:DW:119:LYS:CD	2.57	0.52
2:CA:152:TYR:CD1	2:CA:152:TYR:C	2.88	0.52
2:CB:49:ASP:CB	3:DC:161:SER:HB3	2.40	0.52
2:CC:124:LEU:HD12	2:CC:163:LEU:HD12	1.91	0.52
2:CC:152:TYR:CD1	2:CC:152:TYR:C	2.88	0.52
2:CE:152:TYR:CB	2:CE:197:LEU:HD22	2.40	0.52
2:CE:228:ASN:ND2	3:DA:140:ALA:HB2	2.24	0.52
2:CG:52:THR:OG1	2:Ct:57:THR:HB	2.11	0.52
2:CI:152:TYR:CD1	2:CI:152:TYR:C	2.88	0.52
2:CP:49:ASP:CB	3:DQ:161:SER:HB3	2.40	0.52
2:CS:104:VAL:HG22	2:CS:222:VAL:HG13	1.92	0.52
2:CT:195:VAL:C	2:CT:196:ILE:HG13	2.33	0.52
2:CU:152:TYR:CB	2:CU:197:LEU:HD22	2.40	0.52
2:CV:152:TYR:CD1	2:CV:152:TYR:C	2.88	0.52
2:CW:80:ILE:HG23	2:CW:82:PRO:HD3	1.91	0.52
2:CW:152:TYR:CD1	2:CW:152:TYR:C	2.88	0.52
2:CW:153:GLN:NE2	3:DW:55:SER:N	2.58	0.52
2:CX:115:ASN:OD1	3:Dr:119:LYS:CD	2.58	0.52
2:CX:152:TYR:CB	2:CX:197:LEU:HD22	2.40	0.52
2:CY:124:LEU:HD12	2:CY:163:LEU:CD1	2.40	0.52
2:CZ:57:THR:HB	2:Cp:52:THR:OG1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cb:24:ILE:HG23	3:DT:145:VAL:HB	1.92	0.52
2:Cb:87:LYS:HG3	2:Cb:142:TRP:CD2	2.45	0.52
2:Cc:124:LEU:HD12	2:Cc:163:LEU:CD1	2.40	0.52
2:Ce:87:LYS:HG3	2:Ce:142:TRP:CD2	2.45	0.52
2:Cf:152:TYR:CD1	2:Cf:152:TYR:C	2.88	0.52
2:Ch:228:ASN:ND2	3:Di:140:ALA:HB2	2.24	0.52
2:Cj:87:LYS:HG3	2:Cj:142:TRP:CD2	2.45	0.52
2:Ck:104:VAL:HG22	2:Ck:222:VAL:HG13	1.92	0.52
2:Ck:152:TYR:CD1	2:Ck:152:TYR:C	2.88	0.52
2:Cp:228:ASN:ND2	3:Dq:140:ALA:HB2	2.24	0.52
2:Cs:87:LYS:HG3	2:Cs:142:TRP:CD2	2.45	0.52
2:Cv:87:LYS:HG3	2:Cv:142:TRP:CD2	2.45	0.52
2:Cw:24:ILE:HG23	3:DS:145:VAL:HB	1.92	0.52
2:Cw:153:GLN:NE2	3:ED:55:SER:N	2.58	0.52
3:D5:90:VAL:HG11	3:D5:208:VAL:HG12	1.91	0.52
3:D8:56:ILE:HD13	3:D8:206:VAL:HG11	1.91	0.52
3:DC:31:VAL:HB	4:FC:34:ILE:O	2.10	0.52
3:DC:103:SER:HB3	3:DC:159:PRO:CA	2.35	0.52
3:DL:56:ILE:HD13	3:DL:206:VAL:HG11	1.91	0.52
3:DO:31:VAL:HB	4:FO:34:ILE:O	2.10	0.52
3:DQ:169:VAL:O	3:DQ:169:VAL:HG12	2.09	0.52
3:DS:145:VAL:HG22	3:DS:188:LEU:HD12	1.91	0.52
3:DW:169:VAL:O	3:DW:169:VAL:HG12	2.09	0.52
3:Dc:169:VAL:O	3:Dc:169:VAL:HG12	2.09	0.52
3:Dd:169:VAL:HG12	3:Dd:169:VAL:O	2.09	0.52
3:De:103:SER:HB3	3:De:159:PRO:CA	2.35	0.52
3:Di:42:ASN:HD22	3:Di:44:ILE:N	2.08	0.52
3:Dl:31:VAL:HB	4:Fl:34:ILE:O	2.10	0.52
3:Dn:56:ILE:HD13	3:Dn:206:VAL:HG11	1.91	0.52
3:EA:169:VAL:O	3:EA:169:VAL:HG12	2.09	0.52
3:ED:108:PHE:HA	3:ED:205:LEU:O	2.09	0.52
3:EE:42:ASN:HD22	3:EE:44:ILE:N	2.07	0.52
3:EE:169:VAL:HG12	3:EE:169:VAL:O	2.09	0.52
4:F9:25:PHE:CD2	4:F9:26:TYR:CE1	2.98	0.52
4:FL:25:PHE:CD2	4:FL:26:TYR:CE1	2.98	0.52
4:FT:25:PHE:CD2	4:FT:26:TYR:CE1	2.98	0.52
4:FY:25:PHE:CD2	4:FY:26:TYR:CE1	2.98	0.52
4:Fb:25:PHE:CD2	4:Fb:26:TYR:CE1	2.98	0.52
4:Fh:25:PHE:CD2	4:Fh:26:TYR:CE1	2.98	0.52
4:Fo:25:PHE:CD2	4:Fo:26:TYR:CE1	2.98	0.52
1:A0:37:PHE:HA	1:A0:211:TYR:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:206:GLY:HA3	1:AZ:121:LEU:CD2	2.39	0.51
1:A0:242:ASN:HB2	1:AZ:110:GLY:H	1.75	0.51
1:A1:40:VAL:HG22	1:A1:211:TYR:CE1	2.46	0.51
1:A3:55:HIS:O	1:A3:194:SER:CB	2.56	0.51
1:A8:212:ARG:HG2	1:A8:214:PRO:HD3	1.91	0.51
1:AA:184:TYR:HE2	2:CA:139:ALA:CB	2.23	0.51
1:AB:239:PHE:CD1	3:DB:170:TYR:CD2	2.96	0.51
1:AD:108:PRO:HA	1:AD:161:THR:HG21	1.92	0.51
1:AE:30:VAL:CG1	1:AE:218:MET:HE3	2.33	0.51
1:AJ:186:TRP:O	1:AJ:187:LEU:HB3	2.09	0.51
1:AK:37:PHE:HA	1:AK:211:TYR:O	2.10	0.51
1:AL:30:VAL:CG1	1:AL:218:MET:HE3	2.34	0.51
1:AL:86:ILE:HD12	1:AL:86:ILE:H	1.72	0.51
1:AL:109:VAL:H	1:AL:161:THR:HB	1.74	0.51
1:AL:184:TYR:HE2	2:CL:139:ALA:CB	2.23	0.51
1:AM:48:LEU:O	1:AM:131:GLN:NE2	2.43	0.51
1:AM:109:VAL:H	1:AM:161:THR:HB	1.74	0.51
1:AN:157:SER:CB	3:DN:24:PRO:HA	2.36	0.51
1:AQ:121:LEU:CD2	1:AR:206:GLY:HA3	2.39	0.51
1:AR:186:TRP:O	1:AR:187:LEU:HB3	2.09	0.51
1:AT:48:LEU:O	1:AT:131:GLN:NE2	2.43	0.51
1:AT:149:SER:C	1:AT:151:SER:H	2.18	0.51
1:AU:151:SER:C	1:AU:153:ALA:H	2.19	0.51
1:AV:48:LEU:O	1:AV:131:GLN:NE2	2.43	0.51
1:AV:108:PRO:HA	1:AV:161:THR:HG21	1.92	0.51
1:AW:110:GLY:H	1:AX:242:ASN:HB2	1.75	0.51
1:AX:76:THR:O	1:AX:169:VAL:HG23	2.10	0.51
1:Ab:50:GLY:O	1:Ab:131:GLN:NE2	2.43	0.51
1:Ac:157:SER:CB	3:De:24:PRO:HA	2.36	0.51
1:Ad:50:GLY:O	1:Ad:131:GLN:NE2	2.43	0.51
1:Ae:86:ILE:CD1	1:Ae:86:ILE:H	2.23	0.51
1:Ah:151:SER:C	1:Ah:153:ALA:H	2.19	0.51
1:Ai:212:ARG:O	1:Ai:214:PRO:HD2	2.09	0.51
1:Aj:184:TYR:HE2	2:Cl:139:ALA:CB	2.23	0.51
1:An:22:VAL:C	1:An:24:MET:H	2.18	0.51
1:Ao:104:VAL:HG22	1:Ao:197:LEU:HD21	1.90	0.51
1:BC:48:LEU:O	1:BC:131:GLN:NE2	2.43	0.51
1:BC:110:GLY:H	1:BD:242:ASN:HB2	1.75	0.51
1:BD:55:HIS:O	1:BD:194:SER:CB	2.56	0.51
1:BE:22:VAL:C	1:BE:24:MET:H	2.18	0.51
1:BE:149:SER:C	1:BE:151:SER:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:37:PHE:HA	1:BH:211:TYR:O	2.10	0.51
1:BH:86:ILE:CD1	1:BH:86:ILE:H	2.23	0.51
1:BI:22:VAL:C	1:BI:24:MET:H	2.18	0.51
1:BI:76:THR:O	1:BI:169:VAL:HG23	2.10	0.51
2:C0:57:THR:HB	2:CP:52:THR:OG1	2.11	0.51
2:C3:57:THR:HB	2:CY:52:THR:OG1	2.11	0.51
2:C3:115:ASN:OD1	3:DU:119:LYS:CD	2.58	0.51
2:C6:49:ASP:CB	3:D7:161:SER:HB3	2.40	0.51
2:C7:152:TYR:CD1	2:C7:152:TYR:C	2.88	0.51
2:C8:87:LYS:HG3	2:C8:142:TRP:CD2	2.45	0.51
2:C9:24:ILE:HG23	3:DL:145:VAL:HB	1.92	0.51
2:C9:87:LYS:HG3	2:C9:142:TRP:CD2	2.45	0.51
2:CB:52:THR:OG1	2:CE:57:THR:HB	2.11	0.51
2:CB:80:ILE:HG23	2:CB:82:PRO:HD3	1.91	0.51
2:CB:115:ASN:OD1	3:Df:119:LYS:CD	2.58	0.51
2:CC:69:TRP:HD1	2:CC:70:PRO:N	2.07	0.51
2:CC:124:LEU:HD12	2:CC:163:LEU:CD1	2.40	0.51
2:CC:152:TYR:CE1	3:DC:60:PRO:HD3	2.45	0.51
2:CD:87:LYS:HG3	2:CD:142:TRP:CD2	2.45	0.51
2:CE:49:ASP:CB	3:DA:161:SER:HB3	2.40	0.51
2:CE:124:LEU:HD12	2:CE:163:LEU:CD1	2.40	0.51
2:CF:115:ASN:OD1	3:D6:119:LYS:CD	2.58	0.51
2:CG:152:TYR:CB	2:CG:197:LEU:HD22	2.40	0.51
2:CI:80:ILE:HG23	2:CI:82:PRO:HD3	1.91	0.51
2:CI:124:LEU:HD12	2:CI:163:LEU:CD1	2.40	0.51
2:CJ:124:LEU:HD12	2:CJ:163:LEU:CD1	2.40	0.51
2:CL:87:LYS:HG3	2:CL:142:TRP:CD2	2.45	0.51
2:CL:152:TYR:CB	2:CL:197:LEU:HD22	2.40	0.51
2:CM:104:VAL:HG22	2:CM:222:VAL:HG13	1.93	0.51
2:CN:152:TYR:CD1	2:CN:152:TYR:C	2.88	0.51
2:CR:124:LEU:HD12	2:CR:163:LEU:CD1	2.40	0.51
2:CS:117:SER:OG	2:CS:118:PHE:N	2.41	0.51
2:CT:152:TYR:CB	2:CT:197:LEU:HD22	2.40	0.51
2:CW:152:TYR:CB	2:CW:197:LEU:HD22	2.40	0.51
2:CX:87:LYS:HG3	2:CX:142:TRP:CD2	2.45	0.51
2:CX:104:VAL:HG22	2:CX:222:VAL:HG13	1.92	0.51
2:CX:124:LEU:HD12	2:CX:163:LEU:CD1	2.40	0.51
2:CX:152:TYR:CD1	2:CX:152:TYR:C	2.88	0.51
2:CX:186:LEU:O	2:CX:186:LEU:HD23	2.11	0.51
2:CY:152:TYR:CE1	3:DY:60:PRO:HD3	2.45	0.51
2:Ca:24:ILE:HG23	3:DL:145:VAL:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cb:69:TRP:HD1	2:Cb:70:PRO:N	2.07	0.51
2:Cc:24:ILE:HG23	3:ED:145:VAL:HB	1.92	0.51
2:Cc:104:VAL:HG22	2:Cc:222:VAL:HG13	1.92	0.51
2:Cd:124:LEU:HD12	2:Cd:163:LEU:HD12	1.91	0.51
2:Cf:124:LEU:HD12	2:Cf:163:LEU:CD1	2.40	0.51
2:Cf:153:GLN:NE2	3:Df:55:SER:N	2.58	0.51
2:Ch:49:ASP:CB	3:Di:161:SER:HB3	2.40	0.51
2:Ci:104:VAL:HG22	2:Ci:222:VAL:HG13	1.92	0.51
2:Ck:69:TRP:CZ3	2:Ck:124:LEU:CG	2.92	0.51
2:Cn:152:TYR:CB	2:Cn:197:LEU:HD22	2.40	0.51
2:Cn:153:GLN:NE2	3:Dn:55:SER:N	2.58	0.51
2:Co:124:LEU:HD12	2:Co:163:LEU:CD1	2.40	0.51
2:Co:186:LEU:O	2:Co:186:LEU:HD23	2.11	0.51
2:Co:228:ASN:ND2	3:Dp:140:ALA:HB2	2.24	0.51
2:Cp:152:TYR:CD1	2:Cp:152:TYR:C	2.88	0.51
2:Cr:104:VAL:HG22	2:Cr:222:VAL:HG13	1.93	0.51
2:Cr:152:TYR:CE1	3:Dr:60:PRO:HD3	2.45	0.51
2:Cs:24:ILE:HG23	3:EA:145:VAL:HB	1.92	0.51
2:Ct:152:TYR:CB	2:Ct:197:LEU:HD22	2.40	0.51
2:Cu:87:LYS:HG3	2:Cu:142:TRP:CD2	2.45	0.51
2:Cu:152:TYR:CD1	2:Cu:152:TYR:C	2.88	0.51
2:Cv:152:TYR:C	2:Cv:152:TYR:CD1	2.88	0.51
2:Cv:152:TYR:CB	2:Cv:197:LEU:HD22	2.40	0.51
2:Cv:152:TYR:CE1	3:EC:60:PRO:HD3	2.45	0.51
2:Cw:115:ASN:OD1	3:DS:119:LYS:CD	2.58	0.51
2:Cx:124:LEU:HD12	2:Cx:163:LEU:CD1	2.40	0.51
2:Cx:152:TYR:CD1	2:Cx:152:TYR:C	2.88	0.51
3:D0:169:VAL:HG12	3:D0:169:VAL:O	2.09	0.51
3:D1:42:ASN:HD22	3:D1:44:ILE:N	2.08	0.51
3:D1:60:PRO:O	3:D1:61:TYR:HB3	2.11	0.51
3:D2:108:PHE:HA	3:D2:205:LEU:O	2.09	0.51
3:D3:31:VAL:HG12	4:F3:35:ASP:HA	1.92	0.51
3:D5:31:VAL:HG12	4:F5:35:ASP:HA	1.92	0.51
3:DB:108:PHE:HA	3:DB:205:LEU:O	2.09	0.51
3:DB:145:VAL:HG22	3:DB:188:LEU:HD12	1.91	0.51
3:DD:90:VAL:HG11	3:DD:208:VAL:HG12	1.91	0.51
3:DE:169:VAL:HG12	3:DE:169:VAL:O	2.09	0.51
3:DG:90:VAL:HG11	3:DG:208:VAL:HG12	1.91	0.51
3:DH:42:ASN:HD22	3:DH:44:ILE:HG22	1.65	0.51
3:DI:169:VAL:O	3:DI:169:VAL:HG12	2.09	0.51
3:DK:31:VAL:HG12	4:FK:35:ASP:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:100:TYR:CZ	3:DL:167:MET:HB2	2.45	0.51
3:DN:56:ILE:HD13	3:DN:206:VAL:HG11	1.91	0.51
3:DN:108:PHE:HA	3:DN:205:LEU:O	2.09	0.51
3:DN:169:VAL:HG12	3:DN:169:VAL:O	2.09	0.51
3:DS:56:ILE:HG13	3:DS:74:PHE:HE1	1.72	0.51
3:DS:108:PHE:HA	3:DS:205:LEU:O	2.09	0.51
3:DT:31:VAL:HB	4:FT:34:ILE:O	2.10	0.51
3:DT:108:PHE:HA	3:DT:205:LEU:O	2.09	0.51
3:DZ:100:TYR:CZ	3:DZ:167:MET:HB2	2.45	0.51
3:Dc:56:ILE:HD13	3:Dc:206:VAL:HG11	1.91	0.51
3:Df:169:VAL:HG12	3:Df:169:VAL:O	2.09	0.51
3:Dg:169:VAL:O	3:Dg:169:VAL:HG12	2.09	0.51
3:Dk:42:ASN:HD22	3:Dk:44:ILE:N	2.08	0.51
3:Do:31:VAL:HB	4:Fo:34:ILE:O	2.10	0.51
3:Do:145:VAL:HG22	3:Do:188:LEU:HD12	1.91	0.51
3:Dp:100:TYR:CZ	3:Dp:167:MET:HB2	2.45	0.51
3:Dq:15:MET:HB3	3:Dq:18:VAL:HG13	1.90	0.51
3:Ds:31:VAL:HG12	4:Fs:35:ASP:HA	1.92	0.51
3:EA:31:VAL:HG12	4:Ft:35:ASP:HA	1.92	0.51
3:EA:100:TYR:CZ	3:EA:167:MET:HB2	2.45	0.51
3:EB:56:ILE:HD13	3:EB:206:VAL:HG11	1.91	0.51
3:EB:100:TYR:CZ	3:EB:167:MET:HB2	2.45	0.51
4:F1:25:PHE:CD2	4:F1:26:TYR:CE1	2.98	0.51
4:FF:25:PHE:CD2	4:FF:26:TYR:CE1	2.98	0.51
4:FM:25:PHE:CD2	4:FM:26:TYR:CE1	2.98	0.51
4:Fq:25:PHE:CD2	4:Fq:26:TYR:CE1	2.98	0.51
4:Fw:25:PHE:CD2	4:Fw:26:TYR:CE1	2.98	0.51
1:A0:186:TRP:O	1:A0:187:LEU:HB3	2.09	0.51
1:A3:48:LEU:O	1:A3:131:GLN:NE2	2.43	0.51
1:A3:242:ASN:HB2	1:A7:110:GLY:H	1.75	0.51
1:A4:109:VAL:H	1:A4:161:THR:HB	1.74	0.51
1:A6:106:TRP:O	1:A6:139:SER:HB2	2.11	0.51
1:A8:151:SER:C	1:A8:153:ALA:H	2.19	0.51
1:AA:37:PHE:HA	1:AA:211:TYR:O	2.10	0.51
1:AB:22:VAL:C	1:AB:24:MET:H	2.18	0.51
1:AC:86:ILE:HD12	1:AC:86:ILE:H	1.73	0.51
1:AF:109:VAL:H	1:AF:161:THR:HB	1.74	0.51
1:AH:110:GLY:H	1:AI:242:ASN:HB2	1.75	0.51
1:AI:37:PHE:HA	1:AI:211:TYR:O	2.10	0.51
1:AI:40:VAL:HG22	1:AI:211:TYR:CE1	2.46	0.51
1:AI:50:GLY:O	1:AI:131:GLN:NE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:121:LEU:CD2	1:AJ:206:GLY:HA3	2.39	0.51
1:AI:184:TYR:HE2	2:CI:139:ALA:CB	2.23	0.51
1:AJ:37:PHE:HA	1:AJ:211:TYR:O	2.10	0.51
1:AJ:151:SER:C	1:AJ:153:ALA:H	2.19	0.51
1:AJ:184:TYR:HE2	2:CJ:139:ALA:CB	2.23	0.51
1:AK:48:LEU:HD21	1:AK:103:TRP:CE3	2.44	0.51
1:AM:151:SER:C	1:AM:153:ALA:H	2.19	0.51
1:AN:48:LEU:O	1:AN:131:GLN:NE2	2.43	0.51
1:AO:212:ARG:O	1:AO:214:PRO:HD2	2.09	0.51
1:AP:186:TRP:O	1:AP:187:LEU:HB3	2.09	0.51
1:AS:76:THR:O	1:AS:169:VAL:HG23	2.10	0.51
1:AT:212:ARG:O	1:AT:214:PRO:HD2	2.09	0.51
1:AU:184:TYR:HE2	2:CV:139:ALA:CB	2.23	0.51
1:AV:40:VAL:HG22	1:AV:211:TYR:CE1	2.46	0.51
1:AW:40:VAL:HG22	1:AW:211:TYR:CE1	2.46	0.51
1:AX:149:SER:C	1:AX:151:SER:H	2.18	0.51
1:AY:40:VAL:HG22	1:AY:211:TYR:CE1	2.46	0.51
1:AY:108:PRO:HA	1:AY:161:THR:HG21	1.92	0.51
1:AY:186:TRP:O	1:AY:187:LEU:HB3	2.09	0.51
1:AZ:48:LEU:O	1:AZ:131:GLN:NE2	2.43	0.51
1:AZ:86:ILE:CD1	1:AZ:86:ILE:H	2.23	0.51
1:Aa:30:VAL:CG1	1:Aa:218:MET:HE3	2.33	0.51
1:Aa:184:TYR:HE2	2:Cc:139:ALA:CB	2.23	0.51
1:Ab:48:LEU:O	1:Ab:131:GLN:NE2	2.43	0.51
1:Af:40:VAL:HG22	1:Af:211:TYR:CE1	2.46	0.51
1:Ag:40:VAL:HG22	1:Ag:211:TYR:CE1	2.46	0.51
1:Ag:106:TRP:O	1:Ag:139:SER:HB2	2.11	0.51
1:Ag:186:TRP:O	1:Ag:187:LEU:HB3	2.09	0.51
1:Ag:212:ARG:O	1:Ag:214:PRO:HD2	2.09	0.51
1:Ah:206:GLY:HA3	1:AI:121:LEU:CD2	2.39	0.51
1:Ah:212:ARG:HG2	1:Ah:214:PRO:HD3	1.91	0.51
1:Ai:22:VAL:C	1:Ai:24:MET:H	2.18	0.51
1:Aj:76:THR:O	1:Aj:169:VAL:HG23	2.10	0.51
1:Aj:110:GLY:H	1:Ak:242:ASN:HB2	1.75	0.51
1:Aj:121:LEU:CD2	1:Ak:206:GLY:HA3	2.39	0.51
1:Aj:157:SER:CB	3:DI:24:PRO:HA	2.36	0.51
1:Al:149:SER:C	1:Al:151:SER:H	2.18	0.51
1:Am:104:VAL:HG22	1:Am:197:LEU:HD21	1.90	0.51
1:Ao:108:PRO:HA	1:Ao:161:THR:HG21	1.92	0.51
1:BA:48:LEU:O	1:BA:131:GLN:NE2	2.43	0.51
1:BC:106:TRP:O	1:BC:139:SER:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:109:VAL:H	1:BC:161:THR:HB	1.74	0.51
1:BC:186:TRP:O	1:BC:187:LEU:HB3	2.09	0.51
1:BE:76:THR:O	1:BE:169:VAL:HG23	2.10	0.51
1:BF:109:VAL:H	1:BF:161:THR:HB	1.74	0.51
1:BI:50:GLY:O	1:BI:131:GLN:NE2	2.43	0.51
1:BI:86:ILE:CD1	1:BI:86:ILE:H	2.23	0.51
1:BI:239:PHE:CD1	3:EE:170:TYR:CD2	2.96	0.51
2:C0:24:ILE:HG23	3:DQ:145:VAL:HB	1.92	0.51
2:C0:52:THR:OG1	2:CP:57:THR:HB	2.11	0.51
2:C0:186:LEU:O	2:C0:186:LEU:HD23	2.11	0.51
2:C1:152:TYR:CD1	2:C1:152:TYR:C	2.88	0.51
2:C2:87:LYS:HG3	2:C2:142:TRP:CD2	2.45	0.51
2:C2:104:VAL:HG22	2:C2:222:VAL:HG13	1.92	0.51
2:C2:186:LEU:O	2:C2:186:LEU:HD23	2.11	0.51
2:C3:228:ASN:ND2	3:DZ:140:ALA:HB2	2.24	0.51
2:C5:87:LYS:HG3	2:C5:142:TRP:CD2	2.45	0.51
2:C6:124:LEU:HD12	2:C6:163:LEU:CD1	2.40	0.51
2:C7:57:THR:HB	2:Cl:52:THR:OG1	2.11	0.51
2:C8:52:THR:OG1	2:Cd:57:THR:HB	2.11	0.51
2:C8:57:THR:HB	2:Cd:52:THR:OG1	2.10	0.51
2:C8:104:VAL:HG22	2:C8:222:VAL:HG13	1.92	0.51
2:C8:152:TYR:CD1	2:C8:152:TYR:C	2.88	0.51
2:C9:226:LEU:CD2	3:Da:126:PRO:HG2	2.36	0.51
2:CA:104:VAL:HG22	2:CA:222:VAL:HG13	1.93	0.51
2:CB:57:THR:HB	2:Ce:52:THR:OG1	2.11	0.51
2:CB:186:LEU:O	2:CB:186:LEU:HD23	2.11	0.51
2:CD:49:ASP:CB	3:DE:161:SER:HB3	2.40	0.51
2:CD:152:TYR:CE1	3:DD:60:PRO:HD3	2.45	0.51
2:CF:152:TYR:CE1	3:DF:60:PRO:HD3	2.45	0.51
2:CF:186:LEU:O	2:CF:186:LEU:HD23	2.11	0.51
2:CG:152:TYR:CE1	3:DG:60:PRO:HD3	2.45	0.51
2:CH:124:LEU:HD12	2:CH:163:LEU:CD1	2.40	0.51
2:CH:124:LEU:HD12	2:CH:163:LEU:HD12	1.92	0.51
2:CI:87:LYS:HG3	2:CI:142:TRP:CD2	2.45	0.51
2:CJ:104:VAL:HG22	2:CJ:222:VAL:HG13	1.92	0.51
2:CK:87:LYS:HG3	2:CK:142:TRP:CD2	2.45	0.51
2:CL:195:VAL:C	2:CL:196:ILE:HG13	2.33	0.51
2:CN:87:LYS:HG3	2:CN:142:TRP:CD2	2.45	0.51
2:CN:104:VAL:HG22	2:CN:222:VAL:HG13	1.93	0.51
2:CO:104:VAL:HG22	2:CO:222:VAL:HG13	1.93	0.51
2:CO:124:LEU:HD12	2:CO:163:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:69:TRP:CZ3	2:CR:124:LEU:CG	2.92	0.51
2:CT:124:LEU:HD12	2:CT:163:LEU:CD1	2.40	0.51
2:CU:115:ASN:HD22	3:Dg:190:ALA:C	2.17	0.51
2:CU:124:LEU:HD12	2:CU:163:LEU:HD12	1.92	0.51
2:CV:124:LEU:HD12	2:CV:163:LEU:CD1	2.40	0.51
2:CW:152:TYR:CE1	3:DW:60:PRO:HD3	2.45	0.51
2:CX:152:TYR:CE1	3:DX:60:PRO:HD3	2.45	0.51
2:CZ:117:SER:OG	2:CZ:118:PHE:N	2.41	0.51
2:Ca:124:LEU:HD12	2:Ca:163:LEU:CD1	2.40	0.51
2:Ca:186:LEU:O	2:Ca:186:LEU:HD23	2.11	0.51
2:Cb:124:LEU:HD12	2:Cb:163:LEU:CD1	2.40	0.51
2:Cd:80:ILE:HG23	2:Cd:82:PRO:HD3	1.91	0.51
2:Cd:124:LEU:HD12	2:Cd:163:LEU:CD1	2.40	0.51
2:Cg:87:LYS:HG3	2:Cg:142:TRP:CD2	2.45	0.51
2:Cg:124:LEU:HD12	2:Cg:163:LEU:CD1	2.40	0.51
2:Ci:57:THR:HB	2:Cn:52:THR:OG1	2.10	0.51
2:Ci:115:ASN:OD1	3:Dj:119:LYS:CD	2.57	0.51
2:Cj:152:TYR:CD1	2:Cj:152:TYR:C	2.88	0.51
2:Ck:49:ASP:CB	3:DI:161:SER:HB3	2.40	0.51
2:Cl:104:VAL:HG22	2:Cl:222:VAL:HG13	1.92	0.51
2:Cl:152:TYR:CD1	2:Cl:152:TYR:C	2.88	0.51
2:Cn:124:LEU:HD12	2:Cn:163:LEU:HD12	1.92	0.51
2:Co:152:TYR:CE1	3:Do:60:PRO:HD3	2.45	0.51
2:Cq:24:ILE:HG23	3:DY:145:VAL:HB	1.92	0.51
2:Ct:104:VAL:HG22	2:Ct:222:VAL:HG13	1.92	0.51
2:Ct:124:LEU:HD12	2:Ct:163:LEU:CD1	2.40	0.51
2:Cu:124:LEU:HD12	2:Cu:163:LEU:CD1	2.40	0.51
2:Cv:186:LEU:O	2:Cv:186:LEU:HD23	2.11	0.51
2:Cw:124:LEU:HD12	2:Cw:163:LEU:HD12	1.91	0.51
3:D1:31:VAL:HB	4:F1:34:ILE:O	2.10	0.51
3:D1:56:ILE:HD13	3:D1:206:VAL:HG11	1.91	0.51
3:D7:42:ASN:HD22	3:D7:44:ILE:N	2.08	0.51
3:D7:56:ILE:HD13	3:D7:206:VAL:HG11	1.91	0.51
3:DB:169:VAL:O	3:DB:169:VAL:HG12	2.09	0.51
3:DE:56:ILE:HD13	3:DE:206:VAL:HG11	1.91	0.51
3:DE:60:PRO:O	3:DE:61:TYR:HB3	2.11	0.51
3:DF:145:VAL:HG22	3:DF:188:LEU:HD12	1.91	0.51
3:DK:108:PHE:HA	3:DK:205:LEU:O	2.09	0.51
3:DO:100:TYR:CZ	3:DO:167:MET:HB2	2.45	0.51
3:DP:31:VAL:HG12	4:FP:35:ASP:HA	1.92	0.51
3:DV:100:TYR:CZ	3:DV:167:MET:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:108:PHE:HA	3:DV:205:LEU:O	2.09	0.51
3:DW:56:ILE:HD13	3:DW:206:VAL:HG11	1.91	0.51
3:DX:56:ILE:HD13	3:DX:206:VAL:HG11	1.91	0.51
3:DY:56:ILE:HD13	3:DY:206:VAL:HG11	1.91	0.51
3:De:169:VAL:HG12	3:De:169:VAL:O	2.09	0.51
3:Dg:56:ILE:HD13	3:Dg:206:VAL:HG11	1.91	0.51
3:Dh:31:VAL:HB	4:Fh:34:ILE:O	2.10	0.51
3:Dj:31:VAL:HB	4:Fj:34:ILE:O	2.10	0.51
3:Dm:31:VAL:HB	4:Fm:34:ILE:O	2.10	0.51
3:Dm:31:VAL:HG12	4:Fm:35:ASP:HA	1.92	0.51
3:Dn:108:PHE:HA	3:Dn:205:LEU:O	2.09	0.51
3:Dr:100:TYR:CZ	3:Dr:167:MET:HB2	2.45	0.51
3:Ds:100:TYR:CZ	3:Ds:167:MET:HB2	2.45	0.51
3:EB:31:VAL:HG12	4:Fu:35:ASP:HA	1.92	0.51
4:Ff:25:PHE:CD2	4:Ff:26:TYR:CE1	2.98	0.51
4:Fm:25:PHE:CD2	4:Fm:26:TYR:CE1	2.98	0.51
1:A0:40:VAL:HG22	1:A0:211:TYR:CE1	2.46	0.51
1:A1:99:GLU:OE2	1:A1:101:PHE:HE1	1.92	0.51
1:A2:48:LEU:O	1:A2:131:GLN:NE2	2.43	0.51
1:A4:50:GLY:O	1:A4:131:GLN:NE2	2.43	0.51
1:A5:37:PHE:HA	1:A5:211:TYR:O	2.10	0.51
1:A5:40:VAL:HG22	1:A5:211:TYR:CE1	2.46	0.51
1:A8:104:VAL:HG22	1:A8:197:LEU:HD21	1.91	0.51
1:AA:40:VAL:HG22	1:AA:211:TYR:CE1	2.46	0.51
1:AC:48:LEU:O	1:AC:131:GLN:NE2	2.43	0.51
1:AD:40:VAL:HG22	1:AD:211:TYR:CE1	2.46	0.51
1:AE:212:ARG:O	1:AE:214:PRO:HD2	2.09	0.51
1:AK:76:THR:O	1:AK:169:VAL:HG23	2.10	0.51
1:AL:40:VAL:HG22	1:AL:211:TYR:CE1	2.45	0.51
1:AL:151:SER:C	1:AL:153:ALA:H	2.19	0.51
1:AN:86:ILE:CD1	1:AN:86:ILE:H	2.23	0.51
1:AO:50:GLY:O	1:AO:131:GLN:NE2	2.43	0.51
1:AO:106:TRP:O	1:AO:139:SER:HB2	2.11	0.51
1:AS:106:TRP:O	1:AS:139:SER:HB2	2.11	0.51
1:AS:184:TYR:HE2	2:CT:139:ALA:CB	2.23	0.51
1:AV:121:LEU:CD2	1:AW:206:GLY:HA3	2.39	0.51
1:AW:106:TRP:O	1:AW:139:SER:HB2	2.11	0.51
1:AW:109:VAL:H	1:AW:161:THR:HB	1.74	0.51
1:AX:40:VAL:HG22	1:AX:211:TYR:CE1	2.46	0.51
1:AX:184:TYR:HE2	2:CY:139:ALA:CB	2.23	0.51
1:AY:86:ILE:CD1	1:AY:86:ILE:H	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aa:109:VAL:HG23	1:Aa:161:THR:OG1	2.09	0.51
1:Aa:242:ASN:HB2	1:An:110:GLY:H	1.75	0.51
1:Ac:50:GLY:O	1:Ac:131:GLN:NE2	2.43	0.51
1:Ac:76:THR:O	1:Ac:169:VAL:HG23	2.10	0.51
1:Ad:110:GLY:H	1:Ae:242:ASN:HB2	1.75	0.51
1:Ae:149:SER:C	1:Ae:151:SER:H	2.18	0.51
1:Ag:157:SER:CB	3:Di:24:PRO:HA	2.36	0.51
1:Ah:22:VAL:C	1:Ah:24:MET:H	2.18	0.51
1:Ah:108:PRO:HA	1:Ah:161:THR:HG21	1.92	0.51
1:Ai:76:THR:O	1:Ai:169:VAL:HG23	2.10	0.51
1:Aj:86:ILE:CD1	1:Aj:86:ILE:H	2.23	0.51
1:Aj:106:TRP:O	1:Aj:139:SER:HB2	2.11	0.51
1:Aj:149:SER:C	1:Aj:151:SER:H	2.18	0.51
1:Al:37:PHE:HA	1:Al:211:TYR:O	2.10	0.51
1:An:50:GLY:O	1:An:131:GLN:NE2	2.43	0.51
1:Ao:151:SER:C	1:Ao:153:ALA:H	2.19	0.51
1:BC:151:SER:C	1:BC:153:ALA:H	2.19	0.51
1:BF:37:PHE:HA	1:BF:211:TYR:O	2.10	0.51
1:BH:48:LEU:O	1:BH:131:GLN:NE2	2.43	0.51
2:C1:124:LEU:HD12	2:C1:163:LEU:CD1	2.40	0.51
2:C2:52:THR:OG1	2:Cg:57:THR:HB	2.11	0.51
2:C3:73:GLN:HA	2:C3:73:GLN:NE2	2.17	0.51
2:C3:124:LEU:HD12	2:C3:163:LEU:CD1	2.40	0.51
2:C3:186:LEU:O	2:C3:186:LEU:HD23	2.11	0.51
2:C4:104:VAL:HG22	2:C4:222:VAL:HG13	1.93	0.51
2:C5:104:VAL:HG22	2:C5:222:VAL:HG13	1.92	0.51
2:C5:152:TYR:CB	2:C5:197:LEU:HD22	2.40	0.51
2:C7:104:VAL:HG22	2:C7:222:VAL:HG13	1.93	0.51
2:C9:57:THR:HB	2:Ck:52:THR:OG1	2.11	0.51
2:CA:87:LYS:HG3	2:CA:142:TRP:CD2	2.45	0.51
2:CB:104:VAL:HG22	2:CB:222:VAL:HG13	1.93	0.51
2:CB:152:TYR:CB	2:CB:197:LEU:HD22	2.40	0.51
2:CC:152:TYR:CB	2:CC:197:LEU:HD22	2.40	0.51
2:CE:80:ILE:HD11	2:CE:132:TYR:OH	2.11	0.51
2:CH:152:TYR:CB	2:CH:197:LEU:HD22	2.40	0.51
2:CJ:87:LYS:HG3	2:CJ:142:TRP:CD2	2.45	0.51
2:CJ:115:ASN:OD1	3:DA:119:LYS:CD	2.58	0.51
2:CK:152:TYR:CB	2:CK:197:LEU:HD22	2.40	0.51
2:CL:24:ILE:HG23	3:Dk:145:VAL:HB	1.92	0.51
2:CM:52:THR:OG1	2:Ch:57:THR:HB	2.11	0.51
2:CM:124:LEU:HD12	2:CM:163:LEU:CD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:152:TYR:CD1	2:CM:152:TYR:C	2.88	0.51
2:CN:80:ILE:HG23	2:CN:82:PRO:HD3	1.91	0.51
2:CQ:104:VAL:HG22	2:CQ:222:VAL:HG13	1.92	0.51
2:CQ:152:TYR:CB	2:CQ:197:LEU:HD22	2.40	0.51
2:CT:104:VAL:HG22	2:CT:222:VAL:HG13	1.93	0.51
2:CT:152:TYR:CD1	2:CT:152:TYR:C	2.88	0.51
2:CU:115:ASN:OD1	3:Dg:119:LYS:CD	2.58	0.51
2:CU:152:TYR:CE1	3:DU:60:PRO:HD3	2.45	0.51
2:CU:186:LEU:O	2:CU:186:LEU:HD23	2.11	0.51
2:CY:186:LEU:O	2:CY:186:LEU:HD23	2.11	0.51
2:Cc:57:THR:HB	2:Cv:52:THR:OG1	2.11	0.51
2:Ce:124:LEU:HD12	2:Ce:163:LEU:CD1	2.40	0.51
2:Cf:104:VAL:HG22	2:Cf:222:VAL:HG13	1.92	0.51
2:Ch:24:ILE:HG23	3:DN:145:VAL:HB	1.92	0.51
2:Ch:80:ILE:HG23	2:Ch:82:PRO:HD3	1.91	0.51
2:Ci:52:THR:OG1	2:Cn:57:THR:HB	2.11	0.51
2:Ck:152:TYR:CB	2:Ck:197:LEU:HD22	2.40	0.51
2:Cm:152:TYR:CD1	2:Cm:152:TYR:C	2.88	0.51
2:Cn:186:LEU:O	2:Cn:186:LEU:HD23	2.11	0.51
2:Co:80:ILE:HG23	2:Co:82:PRO:HD3	1.91	0.51
2:Cp:49:ASP:CB	3:Dq:161:SER:HB3	2.39	0.51
2:Cp:87:LYS:HG3	2:Cp:142:TRP:CD2	2.45	0.51
2:Cp:152:TYR:CB	2:Cp:197:LEU:HD22	2.40	0.51
2:Cq:152:TYR:CD1	2:Cq:152:TYR:C	2.88	0.51
2:Cs:52:THR:OG1	2:Cx:57:THR:HB	2.11	0.51
2:Cs:186:LEU:O	2:Cs:186:LEU:HD23	2.11	0.51
2:Cu:124:LEU:HD12	2:Cu:163:LEU:HD12	1.92	0.51
2:Cu:226:LEU:CD2	3:EC:126:PRO:HG2	2.36	0.51
2:Cw:152:TYR:CD1	2:Cw:152:TYR:C	2.88	0.51
2:Cx:80:ILE:HG23	2:Cx:82:PRO:HD3	1.91	0.51
2:Cx:87:LYS:HG3	2:Cx:142:TRP:CD2	2.45	0.51
2:Cx:152:TYR:CB	2:Cx:197:LEU:HD22	2.40	0.51
3:D0:42:ASN:HD22	3:D0:44:ILE:N	2.08	0.51
3:D3:169:VAL:O	3:D3:169:VAL:HG12	2.09	0.51
3:D4:108:PHE:HA	3:D4:205:LEU:O	2.09	0.51
3:D4:169:VAL:O	3:D4:169:VAL:HG12	2.09	0.51
3:D6:60:PRO:O	3:D6:61:TYR:HB3	2.11	0.51
3:D8:42:ASN:HD22	3:D8:44:ILE:N	2.08	0.51
3:D9:60:PRO:O	3:D9:61:TYR:HB3	2.11	0.51
3:D9:100:TYR:CZ	3:D9:167:MET:HB2	2.45	0.51
3:D9:103:SER:HB3	3:D9:159:PRO:CA	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:56:ILE:HD13	3:DA:206:VAL:HG11	1.91	0.51
3:DD:31:VAL:HG12	4:FD:35:ASP:HA	1.92	0.51
3:DE:31:VAL:HB	4:FE:34:ILE:O	2.10	0.51
3:DG:31:VAL:HG12	4:FG:35:ASP:HA	1.92	0.51
3:DM:31:VAL:HB	4:FM:34:ILE:O	2.10	0.51
3:DM:60:PRO:O	3:DM:61:TYR:HB3	2.11	0.51
3:DN:31:VAL:HB	4:FN:34:ILE:O	2.10	0.51
3:DO:31:VAL:HG12	4:FO:35:ASP:HA	1.92	0.51
3:DQ:102:GLY:HA3	3:DQ:214:PHE:HA	1.93	0.51
3:DS:42:ASN:HD22	3:DS:44:ILE:N	2.08	0.51
3:DW:31:VAL:HB	4:FW:34:ILE:O	2.10	0.51
3:DY:31:VAL:HB	4:FY:34:ILE:O	2.10	0.51
3:Df:31:VAL:HG12	4:Ff:35:ASP:HA	1.92	0.51
3:Di:31:VAL:HB	4:Fi:34:ILE:O	2.10	0.51
3:Dj:145:VAL:HG22	3:Dj:188:LEU:HD12	1.91	0.51
3:Dj:169:VAL:O	3:Dj:169:VAL:HG12	2.09	0.51
3:Dl:60:PRO:O	3:Dl:61:TYR:HB3	2.11	0.51
3:Dr:31:VAL:HB	4:Fr:34:ILE:O	2.10	0.51
3:EE:56:ILE:HD13	3:EE:206:VAL:HG11	1.91	0.51
4:FD:25:PHE:CD2	4:FD:26:TYR:CE1	2.98	0.51
4:FH:25:PHE:CD2	4:FH:26:TYR:CE1	2.98	0.51
4:FO:25:PHE:CD2	4:FO:26:TYR:CE1	2.98	0.51
4:FV:25:PHE:CD2	4:FV:26:TYR:CE1	2.98	0.51
4:Fi:25:PHE:CD2	4:Fi:26:TYR:CE1	2.98	0.51
1:A3:40:VAL:HG22	1:A3:211:TYR:CE1	2.46	0.51
1:A4:76:THR:O	1:A4:169:VAL:HG23	2.10	0.51
1:A5:86:ILE:CD1	1:A5:86:ILE:H	2.22	0.51
1:A5:107:PHE:HE1	1:A5:196:LEU:HB2	1.76	0.51
1:A7:181:LYS:O	1:A7:182:ALA:HB2	2.11	0.51
1:A8:109:VAL:H	1:A8:161:THR:HB	1.74	0.51
1:A8:109:VAL:HG22	1:A8:191:HIS:CD2	2.46	0.51
1:A9:106:TRP:O	1:A9:139:SER:HB2	2.11	0.51
1:AB:106:TRP:O	1:AB:139:SER:HB2	2.11	0.51
1:AC:76:THR:O	1:AC:169:VAL:HG23	2.10	0.51
1:AC:109:VAL:HG23	1:AC:161:THR:OG1	2.09	0.51
1:AD:37:PHE:HA	1:AD:211:TYR:O	2.10	0.51
1:AH:108:PRO:HA	1:AH:161:THR:HG21	1.92	0.51
1:AJ:106:TRP:O	1:AJ:139:SER:HB2	2.11	0.51
1:AL:50:GLY:O	1:AL:131:GLN:NE2	2.43	0.51
1:AL:106:TRP:O	1:AL:139:SER:HB2	2.11	0.51
1:AL:212:ARG:HG2	1:AL:214:PRO:HD3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:37:PHE:HA	1:AM:211:TYR:O	2.10	0.51
1:AN:50:GLY:O	1:AN:131:GLN:NE2	2.43	0.51
1:AN:76:THR:O	1:AN:169:VAL:HG23	2.10	0.51
1:AP:37:PHE:HA	1:AP:211:TYR:O	2.10	0.51
1:AP:106:TRP:O	1:AP:139:SER:HB2	2.11	0.51
1:AP:151:SER:C	1:AP:153:ALA:H	2.19	0.51
1:AP:212:ARG:O	1:AP:214:PRO:HD2	2.09	0.51
1:AW:22:VAL:C	1:AW:24:MET:H	2.18	0.51
1:AY:149:SER:C	1:AY:151:SER:H	2.18	0.51
1:Aa:48:LEU:O	1:Aa:131:GLN:NE2	2.43	0.51
1:Ab:76:THR:O	1:Ab:169:VAL:HG23	2.10	0.51
1:Ac:40:VAL:HG22	1:Ac:211:TYR:CE1	2.46	0.51
1:Ae:50:GLY:O	1:Ae:131:GLN:NE2	2.43	0.51
1:Af:22:VAL:C	1:Af:24:MET:H	2.18	0.51
1:Ag:22:VAL:C	1:Ag:24:MET:H	2.18	0.51
1:Ah:40:VAL:HG22	1:Ah:211:TYR:CE1	2.46	0.51
1:Ai:110:GLY:H	1:Aj:242:ASN:HB2	1.75	0.51
1:Aj:186:TRP:O	1:Aj:187:LEU:HB3	2.09	0.51
1:Am:151:SER:C	1:Am:153:ALA:H	2.19	0.51
1:Am:242:ASN:HB2	1:BD:110:GLY:H	1.75	0.51
1:An:151:SER:C	1:An:153:ALA:H	2.19	0.51
1:An:212:ARG:HG2	1:An:214:PRO:HD3	1.91	0.51
1:Ao:86:ILE:CD1	1:Ao:86:ILE:H	2.23	0.51
1:Ao:109:VAL:H	1:Ao:161:THR:HB	1.74	0.51
1:BA:151:SER:C	1:BA:153:ALA:H	2.19	0.51
1:BB:109:VAL:H	1:BB:161:THR:HB	1.74	0.51
1:BB:157:SER:CB	3:Dq:24:PRO:HA	2.36	0.51
1:BD:40:VAL:HG22	1:BD:211:TYR:CE1	2.46	0.51
1:BD:50:GLY:O	1:BD:131:GLN:NE2	2.43	0.51
1:BD:76:THR:O	1:BD:169:VAL:HG23	2.10	0.51
1:BE:106:TRP:O	1:BE:139:SER:HB2	2.11	0.51
1:BE:206:GLY:HA3	1:BI:121:LEU:CD2	2.39	0.51
1:BF:48:LEU:O	1:BF:131:GLN:NE2	2.43	0.51
2:C1:52:THR:OG1	2:CN:57:THR:HB	2.11	0.51
2:C1:104:VAL:HG22	2:C1:222:VAL:HG13	1.92	0.51
2:C1:226:LEU:CD2	3:D2:126:PRO:HG2	2.36	0.51
2:C2:49:ASP:CB	3:D3:161:SER:HB3	2.40	0.51
2:C2:57:THR:HB	2:Cg:52:THR:OG1	2.11	0.51
2:C3:104:VAL:HG22	2:C3:222:VAL:HG13	1.93	0.51
2:C4:57:THR:HB	2:Cu:52:THR:OG1	2.10	0.51
2:C6:186:LEU:O	2:C6:186:LEU:HD23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:49:ASP:CB	3:Da:161:SER:HB3	2.39	0.51
2:C9:152:TYR:CD1	2:C9:152:TYR:C	2.88	0.51
2:CA:24:ILE:HG23	3:DW:145:VAL:HB	1.92	0.51
2:CA:49:ASP:CB	3:DB:161:SER:HB3	2.40	0.51
2:CA:52:THR:OG1	2:CV:57:THR:HB	2.11	0.51
2:CA:124:LEU:HD12	2:CA:163:LEU:CD1	2.40	0.51
2:CB:24:ILE:HG23	3:Df:145:VAL:HB	1.92	0.51
2:CD:115:ASN:OD1	3:D7:119:LYS:CD	2.57	0.51
2:CF:49:ASP:CB	3:DG:161:SER:HB3	2.40	0.51
2:CH:152:TYR:CE1	3:DH:60:PRO:HD3	2.45	0.51
2:CI:186:LEU:O	2:CI:186:LEU:HD23	2.11	0.51
2:CJ:152:TYR:CB	2:CJ:197:LEU:HD22	2.40	0.51
2:CM:152:TYR:CB	2:CM:197:LEU:HD22	2.40	0.51
2:CM:226:LEU:CD2	3:DN:126:PRO:HG2	2.36	0.51
2:CN:80:ILE:HD11	2:CN:132:TYR:OH	2.11	0.51
2:CN:124:LEU:HD12	2:CN:163:LEU:CD1	2.40	0.51
2:CO:87:LYS:HG3	2:CO:142:TRP:CD2	2.45	0.51
2:CP:115:ASN:OD1	3:D1:119:LYS:CD	2.58	0.51
2:CR:52:THR:OG1	2:Cw:57:THR:HB	2.11	0.51
2:CS:49:ASP:CB	3:DT:161:SER:HB3	2.40	0.51
2:CS:52:THR:OG1	2:Cb:57:THR:HB	2.10	0.51
2:CS:115:ASN:HD22	3:Dc:190:ALA:C	2.17	0.51
2:CW:87:LYS:HG3	2:CW:142:TRP:CD2	2.45	0.51
2:CX:52:THR:OG1	2:Cq:57:THR:HB	2.10	0.51
2:CY:152:TYR:CB	2:CY:197:LEU:HD22	2.40	0.51
2:Cd:87:LYS:HG3	2:Cd:142:TRP:CD2	2.45	0.51
2:Cd:104:VAL:HG22	2:Cd:222:VAL:HG13	1.92	0.51
2:Ce:186:LEU:O	2:Ce:186:LEU:HD23	2.11	0.51
2:Cf:73:GLN:HA	2:Cf:73:GLN:NE2	2.17	0.51
2:Ci:27:GLN:HG3	2:Ci:28:GLY:H	1.73	0.51
2:Ck:80:ILE:HG23	2:Ck:82:PRO:HD3	1.91	0.51
2:Cl:80:ILE:HG23	2:Cl:82:PRO:HD3	1.91	0.51
2:Cr:124:LEU:HD12	2:Cr:163:LEU:CD1	2.40	0.51
2:Cs:57:THR:HB	2:Cx:52:THR:OG1	2.11	0.51
2:Cw:186:LEU:O	2:Cw:186:LEU:HD23	2.11	0.51
2:Cx:186:LEU:O	2:Cx:186:LEU:HD23	2.11	0.51
3:D5:31:VAL:HB	4:F5:34:ILE:O	2.10	0.51
3:DC:60:PRO:O	3:DC:61:TYR:HB3	2.11	0.51
3:DG:75:GLN:HG3	3:DG:184:GLN:HG2	1.93	0.51
3:DH:56:ILE:HD13	3:DH:206:VAL:HG11	1.91	0.51
3:DK:31:VAL:HB	4:FK:34:ILE:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DK:103:SER:HB3	3:DK:159:PRO:CA	2.35	0.51
3:DL:169:VAL:O	3:DL:169:VAL:HG12	2.09	0.51
3:DO:60:PRO:O	3:DO:61:TYR:HB3	2.11	0.51
3:DR:56:ILE:HG13	3:DR:74:PHE:HE1	1.72	0.51
3:DS:169:VAL:O	3:DS:169:VAL:HG12	2.09	0.51
3:DT:169:VAL:O	3:DT:169:VAL:HG12	2.09	0.51
3:DX:60:PRO:O	3:DX:61:TYR:HB3	2.11	0.51
3:DX:102:GLY:HA3	3:DX:214:PHE:HA	1.93	0.51
3:DZ:31:VAL:HG12	4:FZ:35:ASP:HA	1.92	0.51
3:Dc:31:VAL:HG12	4:Fc:35:ASP:HA	1.92	0.51
3:Dc:42:ASN:HD22	3:Dc:44:ILE:N	2.08	0.51
3:De:60:PRO:O	3:De:61:TYR:HB3	2.11	0.51
3:Dg:31:VAL:HG12	4:Fg:35:ASP:HA	1.92	0.51
3:Dk:75:GLN:HG3	3:Dk:184:GLN:HG2	1.93	0.51
3:Dn:31:VAL:HG12	4:Fh:35:ASP:HA	1.92	0.51
3:Dp:31:VAL:HG12	4:Fp:35:ASP:HA	1.92	0.51
3:EA:42:ASN:HD22	3:EA:44:ILE:N	2.08	0.51
3:EE:60:PRO:O	3:EE:61:TYR:HB3	2.11	0.51
4:Fu:25:PHE:CD2	4:Fu:26:TYR:CE1	2.98	0.51
4:Fv:25:PHE:CD2	4:Fv:26:TYR:CE1	2.98	0.51
1:A1:212:ARG:O	1:A1:214:PRO:HD2	2.09	0.51
1:A2:86:ILE:CD1	1:A2:86:ILE:H	2.23	0.51
1:A2:239:PHE:CD1	3:D3:170:TYR:CD2	2.96	0.51
1:A3:99:GLU:OE2	1:A3:101:PHE:HE1	1.92	0.51
1:A7:106:TRP:O	1:A7:139:SER:HB2	2.11	0.51
1:A7:149:SER:C	1:A7:151:SER:H	2.18	0.51
1:A8:37:PHE:HA	1:A8:211:TYR:O	2.10	0.51
1:A8:50:GLY:O	1:A8:131:GLN:NE2	2.43	0.51
1:A9:48:LEU:HD21	1:A9:103:TRP:CE3	2.44	0.51
1:AA:22:VAL:C	1:AA:24:MET:H	2.18	0.51
1:AA:107:PHE:HE1	1:AA:196:LEU:HB2	1.76	0.51
1:AD:22:VAL:C	1:AD:24:MET:H	2.18	0.51
1:AD:50:GLY:O	1:AD:131:GLN:NE2	2.43	0.51
1:AE:121:LEU:C	1:AE:121:LEU:HD13	2.36	0.51
1:AF:50:GLY:O	1:AF:131:GLN:NE2	2.43	0.51
1:AI:110:GLY:H	1:AJ:242:ASN:HB2	1.75	0.51
1:AJ:40:VAL:HG22	1:AJ:211:TYR:CE1	2.46	0.51
1:AK:40:VAL:HG22	1:AK:211:TYR:CE1	2.46	0.51
1:AO:107:PHE:HE1	1:AO:196:LEU:HB2	1.76	0.51
1:AP:104:VAL:HG22	1:AP:197:LEU:HD21	1.90	0.51
1:AP:109:VAL:HG22	1:AP:191:HIS:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:121:LEU:HD13	1:AQ:121:LEU:C	2.36	0.51
1:AQ:184:TYR:HE2	2:CQ:139:ALA:CB	2.23	0.51
1:AR:110:GLY:H	1:Ao:242:ASN:HB2	1.75	0.51
1:AR:151:SER:C	1:AR:153:ALA:H	2.19	0.51
1:AR:184:TYR:HE2	2:CR:139:ALA:CB	2.23	0.51
1:AS:151:SER:C	1:AS:153:ALA:H	2.19	0.51
1:AT:109:VAL:HG22	1:AT:191:HIS:CD2	2.46	0.51
1:AU:108:PRO:HA	1:AU:161:THR:HG21	1.92	0.51
1:AX:37:PHE:HA	1:AX:211:TYR:O	2.10	0.51
1:AX:86:ILE:CD1	1:AX:86:ILE:H	2.23	0.51
1:AY:151:SER:C	1:AY:153:ALA:H	2.19	0.51
1:Aa:121:LEU:HD13	1:Aa:121:LEU:C	2.36	0.51
1:Aa:210:ARG:HD2	3:Dc:14:PHE:CZ	2.46	0.51
1:Ab:106:TRP:O	1:Ab:139:SER:HB2	2.11	0.51
1:Ab:121:LEU:HD13	1:Ab:121:LEU:C	2.36	0.51
1:Ac:48:LEU:O	1:Ac:131:GLN:NE2	2.43	0.51
1:Ac:149:SER:C	1:Ac:151:SER:H	2.18	0.51
1:Ad:106:TRP:O	1:Ad:139:SER:HB2	2.11	0.51
1:Ae:40:VAL:HG22	1:Ae:211:TYR:CE1	2.46	0.51
1:Ae:76:THR:O	1:Ae:169:VAL:HG23	2.10	0.51
1:Ae:121:LEU:C	1:Ae:121:LEU:HD13	2.36	0.51
1:Af:107:PHE:HE1	1:Af:196:LEU:HB2	1.76	0.51
1:Ag:151:SER:C	1:Ag:153:ALA:H	2.19	0.51
1:Ah:86:ILE:CD1	1:Ah:86:ILE:H	2.23	0.51
1:Ah:106:TRP:O	1:Ah:139:SER:HB2	2.11	0.51
1:Ah:109:VAL:HG22	1:Ah:191:HIS:CD2	2.46	0.51
1:Aj:40:VAL:HG22	1:Aj:211:TYR:CE1	2.46	0.51
1:Aj:151:SER:C	1:Aj:153:ALA:H	2.19	0.51
1:Ak:50:GLY:O	1:Ak:131:GLN:NE2	2.43	0.51
1:Am:40:VAL:HG22	1:Am:211:TYR:CE1	2.46	0.51
1:An:109:VAL:H	1:An:161:THR:HB	1.74	0.51
1:Ao:106:TRP:O	1:Ao:139:SER:HB2	2.11	0.51
1:Ao:109:VAL:HG22	1:Ao:191:HIS:CD2	2.46	0.51
1:BA:40:VAL:HG22	1:BA:211:TYR:CE1	2.46	0.51
1:BA:109:VAL:HG22	1:BA:191:HIS:CD2	2.46	0.51
1:BA:149:SER:C	1:BA:151:SER:H	2.18	0.51
1:BC:37:PHE:HA	1:BC:211:TYR:O	2.10	0.51
1:BC:40:VAL:HG22	1:BC:211:TYR:CE1	2.46	0.51
1:BC:104:VAL:HG22	1:BC:197:LEU:HD21	1.90	0.51
1:BD:121:LEU:C	1:BD:121:LEU:HD13	2.36	0.51
1:BE:40:VAL:HG22	1:BE:211:TYR:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:108:PRO:HA	1:BG:161:THR:HG21	1.92	0.51
1:BG:110:GLY:H	1:BH:242:ASN:HB2	1.75	0.51
1:BG:186:TRP:O	1:BG:187:LEU:HB3	2.09	0.51
1:BH:22:VAL:C	1:BH:24:MET:H	2.18	0.51
1:BH:40:VAL:HG22	1:BH:211:TYR:CE1	2.46	0.51
1:BI:40:VAL:HG22	1:BI:211:TYR:CE1	2.46	0.51
2:C1:73:GLN:HA	2:C1:73:GLN:NE2	2.17	0.51
2:C3:52:THR:OG1	2:CY:57:THR:HB	2.11	0.51
2:C4:80:ILE:HD11	2:C4:132:TYR:OH	2.11	0.51
2:C4:186:LEU:O	2:C4:186:LEU:HD23	2.11	0.51
2:C6:57:THR:HB	2:CD:52:THR:OG1	2.11	0.51
2:C7:186:LEU:O	2:C7:186:LEU:HD23	2.11	0.51
2:C9:152:TYR:CE1	3:D9:60:PRO:HD3	2.45	0.51
2:CA:57:THR:HB	2:CV:52:THR:OG1	2.11	0.51
2:CB:80:ILE:HD11	2:CB:132:TYR:OH	2.11	0.51
2:CC:104:VAL:HG22	2:CC:222:VAL:HG13	1.93	0.51
2:CD:209:VAL:N	2:CD:210:PRO:CD	2.68	0.51
2:CE:24:ILE:HG23	3:DF:145:VAL:HB	1.92	0.51
2:CE:87:LYS:HG3	2:CE:142:TRP:CD2	2.45	0.51
2:CE:226:LEU:CD2	3:DA:126:PRO:HG2	2.36	0.51
2:CF:124:LEU:HD12	2:CF:163:LEU:CD1	2.40	0.51
2:CG:24:ILE:HG23	3:EB:145:VAL:HB	1.92	0.51
2:CG:152:TYR:CD1	2:CG:152:TYR:C	2.88	0.51
2:CI:152:TYR:CE1	3:DI:60:PRO:HD3	2.45	0.51
2:CK:57:THR:HB	2:Ca:52:THR:OG1	2.11	0.51
2:CK:124:LEU:HD12	2:CK:163:LEU:HD12	1.92	0.51
2:CO:52:THR:OG1	2:CT:57:THR:HB	2.11	0.51
2:CO:124:LEU:HD12	2:CO:163:LEU:CD1	2.40	0.51
2:CR:152:TYR:CD1	2:CR:152:TYR:C	2.88	0.51
2:CU:57:THR:HB	2:Cf:52:THR:OG1	2.11	0.51
2:CU:87:LYS:HG3	2:CU:142:TRP:CD2	2.45	0.51
2:CU:226:LEU:CD2	3:DV:126:PRO:HG2	2.36	0.51
2:CV:80:ILE:HD11	2:CV:132:TYR:OH	2.11	0.51
2:CV:152:TYR:CB	2:CV:197:LEU:HD22	2.40	0.51
2:CX:49:ASP:CB	3:DY:161:SER:HB3	2.39	0.51
2:CZ:87:LYS:HG3	2:CZ:142:TRP:CD2	2.45	0.51
2:Cb:80:ILE:HD11	2:Cb:132:TYR:OH	2.11	0.51
2:Cd:152:TYR:CB	2:Cd:197:LEU:HD22	2.40	0.51
2:Cf:24:ILE:HG23	3:DV:145:VAL:HB	1.92	0.51
2:Cf:186:LEU:O	2:Cf:186:LEU:HD23	2.11	0.51
2:Cg:152:TYR:CB	2:Cg:197:LEU:HD22	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:152:TYR:CB	2:Ch:197:LEU:HD22	2.40	0.51
2:Ci:153:GLN:NE2	3:Di:55:SER:N	2.58	0.51
2:Cj:104:VAL:HG22	2:Cj:222:VAL:HG13	1.92	0.51
2:Cj:152:TYR:CB	2:Cj:197:LEU:HD22	2.40	0.51
2:Cj:152:TYR:CE1	3:Dj:60:PRO:HD3	2.45	0.51
2:Co:27:GLN:HG3	2:Co:28:GLY:H	1.74	0.51
2:Co:104:VAL:HG22	2:Co:222:VAL:HG13	1.93	0.51
2:Cp:80:ILE:HD11	2:Cp:132:TYR:OH	2.11	0.51
2:Cp:115:ASN:OD1	3:D0:119:LYS:CD	2.58	0.51
2:Cq:124:LEU:HD12	2:Cq:163:LEU:CD1	2.40	0.51
2:Cr:115:ASN:CA	3:DI:119:LYS:HZ3	2.24	0.51
2:Cu:80:ILE:HG23	2:Cu:82:PRO:HD3	1.91	0.51
2:Cu:135:THR:HB	2:Cu:139:ALA:CA	2.41	0.51
2:Cv:80:ILE:HD11	2:Cv:132:TYR:OH	2.11	0.51
2:Cv:104:VAL:HG22	2:Cv:222:VAL:HG13	1.93	0.51
2:Cw:124:LEU:HD12	2:Cw:163:LEU:CD1	2.40	0.51
2:Cx:195:VAL:C	2:Cx:196:ILE:HG13	2.33	0.51
3:D0:56:ILE:HD13	3:D0:206:VAL:HG11	1.91	0.51
3:D4:31:VAL:HB	4:F4:34:ILE:O	2.10	0.51
3:DD:60:PRO:O	3:DD:61:TYR:HB3	2.11	0.51
3:DI:108:PHE:HA	3:DI:205:LEU:O	2.09	0.51
3:DO:75:GLN:HG3	3:DO:184:GLN:HG2	1.93	0.51
3:DR:31:VAL:HG12	4:FR:35:ASP:HA	1.92	0.51
3:DV:56:ILE:HD13	3:DV:206:VAL:HG11	1.91	0.51
3:DX:31:VAL:HG12	4:FX:35:ASP:HA	1.92	0.51
3:DX:169:VAL:O	3:DX:169:VAL:HG12	2.09	0.51
3:Da:31:VAL:HB	4:Fa:34:ILE:O	2.10	0.51
3:Da:31:VAL:HG12	4:Fa:35:ASP:HA	1.92	0.51
3:Db:90:VAL:HG11	3:Db:208:VAL:HG12	1.91	0.51
3:Dc:102:GLY:HA3	3:Dc:214:PHE:HA	1.93	0.51
3:Dd:56:ILE:HD13	3:Dd:206:VAL:HG11	1.91	0.51
3:Df:60:PRO:O	3:Df:61:TYR:HB3	2.10	0.51
3:Dj:31:VAL:HG12	4:Fj:35:ASP:HA	1.92	0.51
3:Dm:102:GLY:HA3	3:Dm:214:PHE:HA	1.93	0.51
3:Dp:42:ASN:HD22	3:Dp:44:ILE:N	2.08	0.51
3:Dr:60:PRO:O	3:Dr:61:TYR:HB3	2.11	0.51
3:EA:56:ILE:HD13	3:EA:206:VAL:HG11	1.91	0.51
3:EA:60:PRO:O	3:EA:61:TYR:HB3	2.11	0.51
3:EB:108:PHE:HA	3:EB:205:LEU:O	2.09	0.51
3:EC:56:ILE:HD13	3:EC:206:VAL:HG11	1.91	0.51
3:EE:75:GLN:HG3	3:EE:184:GLN:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F3:25:PHE:CD2	4:F3:26:TYR:CE1	2.98	0.51
4:Fc:25:PHE:CD2	4:Fc:26:TYR:CE1	2.98	0.51
4:Ft:25:PHE:CD2	4:Ft:26:TYR:CE1	2.98	0.51
1:A1:181:LYS:O	1:A1:182:ALA:HB2	2.11	0.51
1:A2:181:LYS:O	1:A2:182:ALA:HB2	2.11	0.51
1:A4:22:VAL:C	1:A4:24:MET:H	2.18	0.51
1:A5:22:VAL:C	1:A5:24:MET:H	2.18	0.51
1:A5:170:PHE:CD2	1:A5:222:ARG:CZ	2.87	0.51
1:A7:40:VAL:HG22	1:A7:211:TYR:CE1	2.46	0.51
1:A7:109:VAL:H	1:A7:161:THR:HB	1.74	0.51
1:A7:157:SER:CB	3:D8:24:PRO:HA	2.35	0.51
1:A8:19:LEU:HD12	2:Cd:48:SER:HB2	1.93	0.51
1:A8:76:THR:O	1:A8:169:VAL:HG23	2.10	0.51
1:A9:22:VAL:C	1:A9:24:MET:H	2.18	0.51
1:A9:107:PHE:HE1	1:A9:196:LEU:HB2	1.76	0.51
1:AB:151:SER:C	1:AB:153:ALA:H	2.19	0.51
1:AC:106:TRP:O	1:AC:139:SER:HB2	2.11	0.51
1:AE:22:VAL:C	1:AE:24:MET:H	2.18	0.51
1:AF:110:GLY:H	1:AG:242:ASN:HB2	1.75	0.51
1:AG:19:LEU:HD12	2:CF:48:SER:HB2	1.93	0.51
1:AG:40:VAL:HG22	1:AG:211:TYR:CE1	2.46	0.51
1:AH:106:TRP:O	1:AH:139:SER:HB2	2.11	0.51
1:AH:186:TRP:O	1:AH:187:LEU:HB3	2.09	0.51
1:AJ:22:VAL:C	1:AJ:24:MET:H	2.18	0.51
1:AK:50:GLY:O	1:AK:131:GLN:NE2	2.43	0.51
1:AK:109:VAL:HG22	1:AK:191:HIS:CD2	2.46	0.51
1:AL:181:LYS:O	1:AL:182:ALA:HB2	2.11	0.51
1:AM:181:LYS:O	1:AM:182:ALA:HB2	2.11	0.51
1:AN:151:SER:C	1:AN:153:ALA:H	2.19	0.51
1:AO:19:LEU:HD12	2:CN:48:SER:HB2	1.93	0.51
1:AO:86:ILE:CD1	1:AO:86:ILE:H	2.23	0.51
1:AO:151:SER:C	1:AO:153:ALA:H	2.19	0.51
1:AP:40:VAL:HG22	1:AP:211:TYR:CE1	2.46	0.51
1:AP:48:LEU:O	1:AP:131:GLN:NE2	2.43	0.51
1:AP:107:PHE:HE1	1:AP:196:LEU:HB2	1.76	0.51
1:AQ:50:GLY:O	1:AQ:131:GLN:NE2	2.43	0.51
1:AQ:109:VAL:H	1:AQ:161:THR:HB	1.74	0.51
1:AR:107:PHE:HE1	1:AR:196:LEU:HB2	1.76	0.51
1:AS:107:PHE:HE1	1:AS:196:LEU:HB2	1.76	0.51
1:AT:181:LYS:O	1:AT:182:ALA:HB2	2.11	0.51
1:AU:40:VAL:HG22	1:AU:211:TYR:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:109:VAL:H	1:AU:161:THR:HB	1.74	0.51
1:AU:121:LEU:CD2	1:AV:206:GLY:HA3	2.39	0.51
1:AV:210:ARG:HD2	3:DW:14:PHE:CZ	2.46	0.51
1:AX:106:TRP:O	1:AX:139:SER:HB2	2.11	0.51
1:AX:121:LEU:HD13	1:AX:121:LEU:C	2.36	0.51
1:AZ:109:VAL:H	1:AZ:161:THR:HB	1.74	0.51
1:Aa:76:THR:O	1:Aa:169:VAL:HG23	2.10	0.51
1:Ac:151:SER:C	1:Ac:153:ALA:H	2.19	0.51
1:Ad:149:SER:C	1:Ad:151:SER:H	2.18	0.51
1:Ae:106:TRP:O	1:Ae:139:SER:HB2	2.11	0.51
1:Ae:212:ARG:O	1:Ae:214:PRO:HD2	2.09	0.51
1:Af:19:LEU:HD12	2:Cg:48:SER:HB2	1.93	0.51
1:Af:86:ILE:CD1	1:Af:86:ILE:H	2.23	0.51
1:Af:149:SER:C	1:Af:151:SER:H	2.18	0.51
1:Ag:181:LYS:O	1:Ag:182:ALA:HB2	2.11	0.51
1:Ah:37:PHE:HA	1:Ah:211:TYR:O	2.10	0.51
1:Aj:121:LEU:HD13	1:Aj:121:LEU:C	2.36	0.51
1:Ak:110:GLY:H	1:Al:242:ASN:HB2	1.75	0.51
1:Ak:151:SER:C	1:Ak:153:ALA:H	2.19	0.51
1:Al:106:TRP:O	1:Al:139:SER:HB2	2.11	0.51
1:Am:106:TRP:O	1:Am:139:SER:HB2	2.11	0.51
1:An:48:LEU:O	1:An:131:GLN:NE2	2.43	0.51
1:BA:210:ARG:HD2	3:Dp:14:PHE:CZ	2.46	0.51
1:BB:239:PHE:CD1	3:Dq:170:TYR:CD2	2.96	0.51
1:BC:107:PHE:HE1	1:BC:196:LEU:HB2	1.76	0.51
1:BC:109:VAL:HG22	1:BC:191:HIS:CD2	2.46	0.51
1:BF:106:TRP:O	1:BF:139:SER:HB2	2.11	0.51
1:BF:210:ARG:HD2	3:EB:14:PHE:CZ	2.46	0.51
1:BG:40:VAL:HG22	1:BG:211:TYR:CE1	2.46	0.51
1:BH:184:TYR:HE2	2:Cw:139:ALA:CB	2.23	0.51
1:BI:48:LEU:O	1:BI:131:GLN:NE2	2.43	0.51
1:BI:107:PHE:HE1	1:BI:196:LEU:HB2	1.76	0.51
1:BI:181:LYS:O	1:BI:182:ALA:HB2	2.11	0.51
1:BI:210:ARG:HD2	3:EE:14:PHE:CZ	2.46	0.51
2:C0:73:GLN:HA	2:C0:73:GLN:NE2	2.17	0.51
2:C0:87:LYS:HG3	2:C0:142:TRP:CD2	2.45	0.51
2:C0:135:THR:HB	2:C0:139:ALA:CA	2.41	0.51
2:C1:57:THR:HB	2:CN:52:THR:OG1	2.11	0.51
2:C1:117:SER:OG	2:C1:118:PHE:N	2.41	0.51
2:C1:152:TYR:CB	2:C1:197:LEU:HD22	2.40	0.51
2:C1:186:LEU:O	2:C1:186:LEU:HD23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:152:TYR:CE1	3:D4:60:PRO:HD3	2.45	0.51
2:C5:186:LEU:O	2:C5:186:LEU:HD23	2.11	0.51
2:C6:152:TYR:CE1	3:D6:60:PRO:HD3	2.45	0.51
2:C8:152:TYR:CE1	3:D8:60:PRO:HD3	2.45	0.51
2:C9:52:THR:OG1	2:Ck:57:THR:HB	2.10	0.51
2:CC:57:THR:HB	2:Cm:52:THR:OG1	2.11	0.51
2:CG:124:LEU:HD12	2:CG:163:LEU:CD1	2.40	0.51
2:CH:186:LEU:O	2:CH:186:LEU:HD23	2.11	0.51
2:CI:57:THR:HB	2:CW:52:THR:OG1	2.11	0.51
2:CJ:153:GLN:NE2	3:DJ:55:SER:N	2.58	0.51
2:CK:153:GLN:NE2	3:DK:55:SER:N	2.58	0.51
2:CM:57:THR:HB	2:Ch:52:THR:OG1	2.11	0.51
2:CQ:87:LYS:HG3	2:CQ:142:TRP:CD2	2.45	0.51
2:CR:87:LYS:HG3	2:CR:142:TRP:CD2	2.45	0.51
2:CS:57:THR:HB	2:Cb:52:THR:OG1	2.11	0.51
2:CS:186:LEU:O	2:CS:186:LEU:HD23	2.11	0.51
2:CS:226:LEU:CD2	3:DT:126:PRO:HG2	2.36	0.51
2:CV:80:ILE:HG23	2:CV:82:PRO:HD3	1.91	0.51
2:CV:115:ASN:CA	3:DB:119:LYS:HZ3	2.24	0.51
2:CW:163:LEU:HD21	2:CW:169:SER:C	2.36	0.51
2:CZ:124:LEU:HD12	2:CZ:163:LEU:CD1	2.40	0.51
2:CZ:186:LEU:O	2:CZ:186:LEU:HD23	2.11	0.51
2:Cb:186:LEU:O	2:Cb:186:LEU:HD23	2.11	0.51
2:Cd:16:THR:HA	2:Cd:24:ILE:O	2.11	0.51
2:Cg:80:ILE:HG23	2:Cg:82:PRO:HD3	1.91	0.51
2:Ch:124:LEU:HD12	2:Ch:163:LEU:CD1	2.40	0.51
2:Ci:124:LEU:HD12	2:Ci:163:LEU:CD1	2.40	0.51
2:Ck:124:LEU:HD12	2:Ck:163:LEU:CD1	2.40	0.51
2:Cm:87:LYS:HG3	2:Cm:142:TRP:CD2	2.45	0.51
2:Cm:124:LEU:HD12	2:Cm:163:LEU:CD1	2.40	0.51
2:Cm:186:LEU:O	2:Cm:186:LEU:HD23	2.11	0.51
2:Cn:152:TYR:CE1	3:Dn:60:PRO:HD3	2.44	0.51
2:Cs:80:ILE:HD11	2:Cs:132:TYR:OH	2.11	0.51
2:Cw:163:LEU:HD21	2:Cw:169:SER:C	2.36	0.51
3:D1:31:VAL:HG12	4:F1:35:ASP:HA	1.92	0.51
3:D2:31:VAL:HB	4:F2:34:ILE:O	2.10	0.51
3:DA:75:GLN:HG3	3:DA:184:GLN:HG2	1.93	0.51
3:DB:102:GLY:HA3	3:DB:214:PHE:HA	1.93	0.51
3:DD:75:GLN:HG3	3:DD:184:GLN:HG2	1.93	0.51
3:DE:102:GLY:HA3	3:DE:214:PHE:HA	1.93	0.51
3:DG:42:ASN:HD22	3:DG:44:ILE:N	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:100:TYR:CZ	3:DH:167:MET:HB2	2.45	0.51
3:DJ:102:GLY:HA3	3:DJ:214:PHE:HA	1.93	0.51
3:DK:56:ILE:HD13	3:DK:206:VAL:HG11	1.91	0.51
3:DL:42:ASN:HD22	3:DL:44:ILE:N	2.07	0.51
3:DL:90:VAL:HG11	3:DL:208:VAL:HG12	1.91	0.51
3:DO:90:VAL:HG11	3:DO:208:VAL:HG12	1.91	0.51
3:DQ:56:ILE:HD13	3:DQ:206:VAL:HG11	1.91	0.51
3:DQ:75:GLN:HG3	3:DQ:184:GLN:HG2	1.93	0.51
3:DV:42:ASN:HD22	3:DV:44:ILE:N	2.08	0.51
3:DW:31:VAL:HG12	4:FW:35:ASP:HA	1.92	0.51
3:DW:60:PRO:O	3:DW:61:TYR:HB3	2.11	0.51
3:DZ:90:VAL:HG11	3:DZ:208:VAL:HG12	1.91	0.51
3:DZ:169:VAL:HG12	3:DZ:169:VAL:O	2.09	0.51
3:Da:108:PHE:HA	3:Da:205:LEU:O	2.09	0.51
3:Dd:60:PRO:O	3:Dd:61:TYR:HB3	2.11	0.51
3:De:75:GLN:HG3	3:De:184:GLN:HG2	1.93	0.51
3:Df:56:ILE:HD13	3:Df:206:VAL:HG11	1.91	0.51
3:Dk:102:GLY:HA3	3:Dk:214:PHE:HA	1.93	0.51
3:Dl:56:ILE:HD13	3:Dl:206:VAL:HG11	1.91	0.51
3:Dn:42:ASN:HD22	3:Dn:44:ILE:N	2.08	0.51
3:Dq:31:VAL:HB	4:Fq:34:ILE:O	2.10	0.51
3:Dq:75:GLN:HG3	3:Dq:184:GLN:HG2	1.93	0.51
3:Dr:56:ILE:HD13	3:Dr:206:VAL:HG11	1.91	0.51
3:Dr:75:GLN:HG3	3:Dr:184:GLN:HG2	1.93	0.51
1:A0:22:VAL:C	1:A0:24:MET:H	2.18	0.51
1:A0:181:LYS:O	1:A0:182:ALA:HB2	2.11	0.51
1:A0:184:TYR:HE2	2:C1:139:ALA:CB	2.23	0.51
1:A0:212:ARG:O	1:A0:214:PRO:HD2	2.09	0.51
1:A2:106:TRP:O	1:A2:139:SER:HB2	2.11	0.51
1:A4:19:LEU:HD12	2:C4:48:SER:HB2	1.93	0.51
1:A4:106:TRP:O	1:A4:139:SER:HB2	2.11	0.51
1:A5:19:LEU:HD12	2:C5:48:SER:HB2	1.93	0.51
1:A5:106:TRP:O	1:A5:139:SER:HB2	2.11	0.51
1:A6:40:VAL:HG22	1:A6:211:TYR:CE1	2.46	0.51
1:A6:110:GLY:H	1:A7:242:ASN:HB2	1.75	0.51
1:A7:19:LEU:HD12	2:C7:48:SER:HB2	1.93	0.51
1:A7:151:SER:C	1:A7:153:ALA:H	2.19	0.51
1:A9:86:ILE:CD1	1:A9:86:ILE:H	2.23	0.51
1:A9:110:GLY:H	1:An:242:ASN:HB2	1.75	0.51
1:AA:106:TRP:O	1:AA:139:SER:HB2	2.11	0.51
1:AB:109:VAL:HG22	1:AB:191:HIS:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:121:LEU:HD13	1:AC:121:LEU:C	2.36	0.51
1:AD:107:PHE:HE1	1:AD:196:LEU:HB2	1.76	0.51
1:AD:109:VAL:HG22	1:AD:191:HIS:CD2	2.46	0.51
1:AF:106:TRP:O	1:AF:139:SER:HB2	2.11	0.51
1:AH:40:VAL:HG22	1:AH:211:TYR:CE1	2.46	0.51
1:AH:149:SER:C	1:AH:151:SER:H	2.18	0.51
1:AJ:107:PHE:HE1	1:AJ:196:LEU:HB2	1.76	0.51
1:AK:181:LYS:O	1:AK:182:ALA:HB2	2.11	0.51
1:AL:149:SER:C	1:AL:151:SER:H	2.18	0.51
1:AM:106:TRP:O	1:AM:139:SER:HB2	2.11	0.51
1:AM:107:PHE:HE1	1:AM:196:LEU:HB2	1.76	0.51
1:AM:121:LEU:HD13	1:AM:121:LEU:C	2.36	0.51
1:AN:22:VAL:C	1:AN:24:MET:H	2.18	0.51
1:AN:109:VAL:HG22	1:AN:191:HIS:CD2	2.46	0.51
1:AO:37:PHE:HA	1:AO:211:TYR:O	2.10	0.51
1:AP:181:LYS:O	1:AP:182:ALA:HB2	2.11	0.51
1:AR:109:VAL:HG22	1:AR:191:HIS:CD2	2.46	0.51
1:AU:109:VAL:HG22	1:AU:191:HIS:CD2	2.46	0.51
1:AV:109:VAL:HG22	1:AV:191:HIS:CD2	2.46	0.51
1:AV:239:PHE:CD1	3:DW:170:TYR:CD2	2.96	0.51
1:AX:157:SER:CB	3:DY:24:PRO:HA	2.36	0.51
1:AX:181:LYS:O	1:AX:182:ALA:HB2	2.11	0.51
1:AY:157:SER:CB	3:DZ:24:PRO:HA	2.36	0.51
1:Aa:106:TRP:O	1:Aa:139:SER:HB2	2.11	0.51
1:Aa:121:LEU:CD2	1:Ab:206:GLY:HA3	2.39	0.51
1:Aa:151:SER:C	1:Aa:153:ALA:H	2.19	0.51
1:Ab:86:ILE:HD12	1:Ab:86:ILE:H	1.72	0.51
1:Ab:210:ARG:HD2	3:Dd:14:PHE:CZ	2.46	0.51
1:Ac:239:PHE:CD1	3:De:170:TYR:CD2	2.96	0.51
1:Ad:151:SER:C	1:Ad:153:ALA:H	2.19	0.51
1:Ad:181:LYS:O	1:Ad:182:ALA:HB2	2.11	0.51
1:Ag:109:VAL:HG22	1:Ag:191:HIS:CD2	2.46	0.51
1:Ah:50:GLY:O	1:Ah:131:GLN:NE2	2.43	0.51
1:Ah:210:ARG:HD2	3:Dj:14:PHE:CZ	2.46	0.51
1:Ai:50:GLY:O	1:Ai:131:GLN:NE2	2.43	0.51
1:Aj:210:ARG:HD2	3:Di:14:PHE:CZ	2.46	0.51
1:Ak:121:LEU:HD13	1:Ak:121:LEU:C	2.36	0.51
1:Ak:181:LYS:O	1:Ak:182:ALA:HB2	2.11	0.51
1:Ak:186:TRP:O	1:Ak:187:LEU:HB3	2.09	0.51
1:Al:107:PHE:HE1	1:Al:196:LEU:HB2	1.76	0.51
1:Al:109:VAL:HG22	1:Al:191:HIS:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:86:ILE:CD1	1:Am:86:ILE:H	2.23	0.51
1:Am:239:PHE:CD1	3:Do:170:TYR:CD2	2.96	0.51
1:Ao:157:SER:CB	3:DS:24:PRO:HA	2.36	0.51
1:Ao:212:ARG:HG2	1:Ao:214:PRO:HD3	1.91	0.51
1:BB:107:PHE:HE1	1:BB:196:LEU:HB2	1.76	0.51
1:BB:121:LEU:HD13	1:BB:121:LEU:C	2.36	0.51
1:BB:184:TYR:HE2	2:Cq:139:ALA:CB	2.23	0.51
1:BD:170:PHE:CD2	1:BD:222:ARG:CZ	2.87	0.51
1:BE:19:LEU:HD12	2:Cx:48:SER:HB2	1.93	0.51
1:BE:50:GLY:O	1:BE:131:GLN:NE2	2.43	0.51
1:BF:22:VAL:C	1:BF:24:MET:H	2.18	0.51
1:BG:106:TRP:O	1:BG:139:SER:HB2	2.11	0.51
1:BG:210:ARG:HD2	3:EC:14:PHE:CZ	2.46	0.51
1:BH:106:TRP:O	1:BH:139:SER:HB2	2.11	0.51
1:BH:108:PRO:HA	1:BH:161:THR:HG21	1.92	0.51
1:BI:108:PRO:HA	1:BI:161:THR:HG21	1.92	0.51
1:BI:109:VAL:HG22	1:BI:191:HIS:CD2	2.46	0.51
2:C1:27:GLN:HG3	2:C1:28:GLY:H	1.73	0.51
2:C3:16:THR:HA	2:C3:24:ILE:O	2.11	0.51
2:C4:49:ASP:CB	3:D5:161:SER:HB3	2.40	0.51
2:C5:135:THR:HB	2:C5:139:ALA:CA	2.41	0.51
2:C6:135:THR:HB	2:C6:139:ALA:CA	2.41	0.51
2:C7:52:THR:OG1	2:Cl:57:THR:HB	2.11	0.51
2:C8:152:TYR:CB	2:C8:197:LEU:HD22	2.40	0.51
2:CC:115:ASN:CA	3:Dn:119:LYS:HZ3	2.24	0.51
2:CC:135:THR:HB	2:CC:139:ALA:CA	2.41	0.51
2:CE:52:THR:OG1	2:CJ:57:THR:HB	2.11	0.51
2:CK:24:ILE:HG23	3:Db:145:VAL:HB	1.92	0.51
2:CK:73:GLN:HA	2:CK:73:GLN:NE2	2.17	0.51
2:CK:124:LEU:HD12	2:CK:163:LEU:CD1	2.40	0.51
2:CO:80:ILE:HD11	2:CO:132:TYR:OH	2.11	0.51
2:CQ:80:ILE:HD11	2:CQ:132:TYR:OH	2.11	0.51
2:CR:16:THR:HA	2:CR:24:ILE:O	2.11	0.51
2:CR:152:TYR:CB	2:CR:197:LEU:HD22	2.41	0.51
2:CS:16:THR:HA	2:CS:24:ILE:O	2.11	0.51
2:CS:124:LEU:HD12	2:CS:163:LEU:CD1	2.40	0.51
2:CT:87:LYS:HG3	2:CT:142:TRP:CD2	2.45	0.51
2:CT:186:LEU:O	2:CT:186:LEU:HD23	2.11	0.51
2:CU:124:LEU:HD12	2:CU:163:LEU:CD1	2.40	0.51
2:CU:135:THR:HB	2:CU:139:ALA:CA	2.41	0.51
2:CX:24:ILE:HG23	3:Dr:145:VAL:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CZ:135:THR:HB	2:CZ:139:ALA:CA	2.41	0.51
2:Ca:153:GLN:NE2	3:Da:55:SER:N	2.58	0.51
2:Cb:27:GLN:HG3	2:Cb:28:GLY:H	1.73	0.51
2:Cc:80:ILE:HD11	2:Cc:132:TYR:OH	2.11	0.51
2:Cc:226:LEU:CD2	3:Dd:126:PRO:HG2	2.36	0.51
2:Cd:115:ASN:HD22	3:D4:190:ALA:C	2.17	0.51
2:Cd:135:THR:HB	2:Cd:139:ALA:CA	2.41	0.51
2:Ce:24:ILE:HG23	3:DC:145:VAL:HB	1.92	0.51
2:Ce:163:LEU:HD21	2:Ce:169:SER:C	2.36	0.51
2:Ch:115:ASN:CA	3:DN:119:LYS:HZ3	2.24	0.51
2:Ci:49:ASP:CB	3:De:161:SER:HB3	2.40	0.51
2:Cj:24:ILE:HG23	3:DM:145:VAL:HB	1.92	0.51
2:Ck:80:ILE:HD11	2:Ck:132:TYR:OH	2.11	0.51
2:Cl:27:GLN:HG3	2:Cl:28:GLY:H	1.74	0.51
2:Cl:186:LEU:O	2:Cl:186:LEU:HD23	2.11	0.51
2:Cm:16:THR:HA	2:Cm:24:ILE:O	2.11	0.51
2:Cn:163:LEU:HD21	2:Cn:169:SER:C	2.36	0.51
2:Cq:115:ASN:HD22	3:DY:190:ALA:C	2.17	0.51
2:Cq:135:THR:HB	2:Cq:139:ALA:CA	2.41	0.51
2:Cs:80:ILE:HG23	2:Cs:82:PRO:HD3	1.91	0.51
2:Ct:152:TYR:CD1	2:Ct:152:TYR:C	2.88	0.51
2:Cu:163:LEU:HD21	2:Cu:169:SER:C	2.36	0.51
2:Cv:124:LEU:HD12	2:Cv:163:LEU:CD1	2.40	0.51
2:Cw:80:ILE:HG23	2:Cw:82:PRO:HD3	1.91	0.51
3:D0:60:PRO:O	3:D0:61:TYR:HB3	2.11	0.51
3:D2:42:ASN:HD22	3:D2:44:ILE:N	2.08	0.51
3:D4:31:VAL:HG12	4:F4:35:ASP:HA	1.92	0.51
3:D8:60:PRO:O	3:D8:61:TYR:HB3	2.10	0.51
3:DA:60:PRO:O	3:DA:61:TYR:HB3	2.11	0.51
3:DD:108:PHE:HA	3:DD:205:LEU:O	2.09	0.51
3:DG:31:VAL:HB	4:FG:34:ILE:O	2.10	0.51
3:DH:31:VAL:HB	4:FH:34:ILE:O	2.10	0.51
3:DH:31:VAL:HG12	4:FH:35:ASP:HA	1.92	0.51
3:DH:102:GLY:HA3	3:DH:214:PHE:HA	1.93	0.51
3:DL:102:GLY:HA3	3:DL:214:PHE:HA	1.93	0.51
3:DM:102:GLY:HA3	3:DM:214:PHE:HA	1.93	0.51
3:DP:60:PRO:O	3:DP:61:TYR:HB3	2.11	0.51
3:DR:31:VAL:HB	4:FR:34:ILE:O	2.10	0.51
3:DT:75:GLN:HG3	3:DT:184:GLN:HG2	1.93	0.51
3:DU:75:GLN:HG3	3:DU:184:GLN:HG2	1.93	0.51
3:DV:60:PRO:O	3:DV:61:TYR:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:169:VAL:O	3:DV:169:VAL:HG12	2.09	0.51
3:DW:75:GLN:HG3	3:DW:184:GLN:HG2	1.93	0.51
3:DY:145:VAL:HG22	3:DY:188:LEU:HD12	1.91	0.51
3:Da:42:ASN:HD22	3:Da:44:ILE:N	2.07	0.51
3:Db:31:VAL:HB	4:Fb:34:ILE:O	2.10	0.51
3:Db:102:GLY:HA3	3:Db:214:PHE:HA	1.93	0.51
3:Db:103:SER:HB3	3:Db:159:PRO:CA	2.35	0.51
3:De:56:ILE:HD13	3:De:206:VAL:HG11	1.91	0.51
3:Dh:60:PRO:O	3:Dh:61:TYR:HB3	2.11	0.51
3:Dk:31:VAL:HG12	4:Fk:35:ASP:HA	1.92	0.51
3:Dm:75:GLN:HG3	3:Dm:184:GLN:HG2	1.93	0.51
3:Ds:145:VAL:HG22	3:Ds:188:LEU:HD12	1.91	0.51
3:EA:102:GLY:HA3	3:EA:214:PHE:HA	1.93	0.51
3:EB:42:ASN:HD22	3:EB:44:ILE:N	2.07	0.51
3:EE:31:VAL:HB	4:Fx:34:ILE:O	2.10	0.51
4:Fk:25:PHE:CD2	4:Fk:26:TYR:CE1	2.98	0.51
1:A0:48:LEU:O	1:A0:131:GLN:NE2	2.43	0.51
1:A2:50:GLY:O	1:A2:131:GLN:NE2	2.43	0.51
1:A2:110:GLY:H	1:AY:242:ASN:HB2	1.75	0.51
1:A4:40:VAL:HG22	1:A4:211:TYR:CE1	2.46	0.51
1:A4:151:SER:C	1:A4:153:ALA:H	2.19	0.51
1:A5:48:LEU:O	1:A5:131:GLN:NE2	2.43	0.51
1:A5:239:PHE:CD1	3:D6:170:TYR:CD2	2.96	0.51
1:AA:50:GLY:O	1:AA:131:GLN:NE2	2.43	0.51
1:AA:109:VAL:HG22	1:AA:191:HIS:CD2	2.46	0.51
1:AA:181:LYS:O	1:AA:182:ALA:HB2	2.11	0.51
1:AA:242:ASN:HB2	1:AE:110:GLY:H	1.75	0.51
1:AB:121:LEU:CD2	1:AC:206:GLY:HA3	2.39	0.51
1:AC:151:SER:C	1:AC:153:ALA:H	2.19	0.51
1:AD:151:SER:C	1:AD:153:ALA:H	2.19	0.51
1:AE:107:PHE:HE1	1:AE:196:LEU:HB2	1.76	0.51
1:AF:40:VAL:HG22	1:AF:211:TYR:CE1	2.46	0.51
1:AF:242:ASN:HB2	1:AJ:110:GLY:H	1.75	0.51
1:AH:184:TYR:HE2	2:CH:139:ALA:CB	2.23	0.51
1:AK:108:PRO:HA	1:AK:161:THR:HG21	1.92	0.51
1:AL:48:LEU:O	1:AL:131:GLN:NE2	2.43	0.51
1:AL:210:ARG:HD2	3:DL:14:PHE:CZ	2.46	0.51
1:AN:40:VAL:HG22	1:AN:211:TYR:CE1	2.46	0.51
1:AN:106:TRP:O	1:AN:139:SER:HB2	2.11	0.51
1:AR:40:VAL:HG22	1:AR:211:TYR:CE1	2.46	0.51
1:AS:121:LEU:HD13	1:AS:121:LEU:C	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:210:ARG:HD2	3:DT:14:PHE:CZ	2.46	0.51
1:AT:210:ARG:HD2	3:DU:14:PHE:CZ	2.46	0.51
1:AU:210:ARG:HD2	3:DV:14:PHE:CZ	2.46	0.51
1:AW:48:LEU:O	1:AW:131:GLN:NE2	2.43	0.51
1:AW:86:ILE:HD12	1:AW:86:ILE:H	1.73	0.51
1:AW:104:VAL:HG22	1:AW:197:LEU:HD21	1.90	0.51
1:AX:109:VAL:HG22	1:AX:191:HIS:CD2	2.46	0.51
1:AY:109:VAL:HG22	1:AY:191:HIS:CD2	2.46	0.51
1:AZ:121:LEU:C	1:AZ:121:LEU:HD13	2.36	0.51
1:Ab:151:SER:C	1:Ab:153:ALA:H	2.19	0.51
1:Ac:210:ARG:HD2	3:De:14:PHE:CZ	2.46	0.51
1:Ad:19:LEU:HD12	2:Ce:48:SER:HB2	1.93	0.51
1:Ad:184:TYR:HE2	2:Cf:139:ALA:CB	2.23	0.51
1:Af:210:ARG:HD2	3:Dh:14:PHE:CZ	2.46	0.51
1:Ag:48:LEU:O	1:Ag:131:GLN:NE2	2.43	0.51
1:Ag:121:LEU:HD13	1:Ag:121:LEU:C	2.36	0.51
1:Ag:149:SER:C	1:Ag:151:SER:H	2.18	0.51
1:Ah:170:PHE:CD2	1:Ah:222:ARG:CZ	2.87	0.51
1:Al:210:ARG:HD2	3:Dn:14:PHE:CZ	2.46	0.51
1:Am:108:PRO:HA	1:Am:161:THR:HG21	1.92	0.51
1:Ao:239:PHE:CD1	3:DS:170:TYR:CD2	2.96	0.51
1:BB:22:VAL:C	1:BB:24:MET:H	2.18	0.51
1:BF:76:THR:O	1:BF:169:VAL:HG23	2.10	0.51
1:BF:110:GLY:H	1:BG:242:ASN:HB2	1.75	0.51
1:BH:110:GLY:H	1:BI:242:ASN:HB2	1.75	0.51
2:C0:163:LEU:HD21	2:C0:169:SER:C	2.36	0.51
2:C2:80:ILE:HD11	2:C2:132:TYR:OH	2.11	0.51
2:C2:152:TYR:CE1	3:D2:60:PRO:HD3	2.44	0.51
2:C4:16:THR:HA	2:C4:24:ILE:O	2.11	0.51
2:C6:16:THR:HA	2:C6:24:ILE:O	2.11	0.51
2:C6:87:LYS:HG3	2:C6:142:TRP:CD2	2.45	0.51
2:C7:124:LEU:HD12	2:C7:163:LEU:CD1	2.40	0.51
2:C7:163:LEU:HD21	2:C7:169:SER:C	2.36	0.51
2:C9:80:ILE:HG23	2:C9:82:PRO:HD3	1.91	0.51
2:CB:124:LEU:HD12	2:CB:163:LEU:CD1	2.40	0.51
2:CC:24:ILE:HG23	3:Dn:145:VAL:HB	1.92	0.51
2:CC:153:GLN:NE2	3:DC:55:SER:N	2.58	0.51
2:CC:163:LEU:HD21	2:CC:169:SER:C	2.36	0.51
2:CH:80:ILE:HD11	2:CH:132:TYR:OH	2.11	0.51
2:CH:87:LYS:HG3	2:CH:142:TRP:CD2	2.45	0.51
2:CH:135:THR:HB	2:CH:139:ALA:CA	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CJ:16:THR:HA	2:CJ:24:ILE:O	2.11	0.51
2:CJ:24:ILE:HG23	3:DA:145:VAL:HB	1.92	0.51
2:CK:152:TYR:CE1	3:DK:60:PRO:HD3	2.45	0.51
2:CL:124:LEU:HD12	2:CL:163:LEU:CD1	2.40	0.51
2:CM:80:ILE:HD11	2:CM:132:TYR:OH	2.11	0.51
2:CN:27:GLN:HG3	2:CN:28:GLY:H	1.73	0.51
2:CQ:124:LEU:HD12	2:CQ:163:LEU:CD1	2.40	0.51
2:CQ:186:LEU:O	2:CQ:186:LEU:HD23	2.11	0.51
2:CR:135:THR:HB	2:CR:139:ALA:CA	2.41	0.51
2:CT:16:THR:HA	2:CT:24:ILE:O	2.11	0.51
2:Ca:87:LYS:HG3	2:Ca:142:TRP:CD2	2.45	0.51
2:Ca:152:TYR:CB	2:Ca:197:LEU:HD22	2.40	0.51
2:Cc:152:TYR:CB	2:Cc:197:LEU:HD22	2.40	0.51
2:Cd:80:ILE:HD11	2:Cd:132:TYR:OH	2.11	0.51
2:Ce:80:ILE:HD11	2:Ce:132:TYR:OH	2.11	0.51
2:Cf:135:THR:HB	2:Cf:139:ALA:CA	2.41	0.51
2:Ch:152:TYR:CE1	3:Dh:60:PRO:HD3	2.45	0.51
2:Ci:152:TYR:CD1	2:Ci:152:TYR:C	2.88	0.51
2:Ck:163:LEU:HD21	2:Ck:169:SER:C	2.36	0.51
2:Cl:80:ILE:HD11	2:Cl:132:TYR:OH	2.11	0.51
2:Cl:152:TYR:CB	2:Cl:197:LEU:HD22	2.40	0.51
2:Cm:80:ILE:HG23	2:Cm:82:PRO:HD3	1.91	0.51
2:Cn:152:TYR:CD1	2:Cn:152:TYR:C	2.88	0.51
2:Co:163:LEU:HD21	2:Co:169:SER:C	2.36	0.51
2:Cp:124:LEU:HD12	2:Cp:163:LEU:CD1	2.40	0.51
2:Cr:16:THR:HA	2:Cr:24:ILE:O	2.11	0.51
2:Cs:163:LEU:HD21	2:Cs:169:SER:C	2.36	0.51
2:Ct:24:ILE:HG23	3:DH:145:VAL:HB	1.92	0.51
2:Cu:80:ILE:HD11	2:Cu:132:TYR:OH	2.11	0.51
2:Cu:115:ASN:HD22	3:D5:190:ALA:C	2.17	0.51
2:Cu:152:TYR:CB	2:Cu:197:LEU:HD22	2.40	0.51
2:Cw:80:ILE:HD11	2:Cw:132:TYR:OH	2.11	0.51
3:D0:31:VAL:HG12	4:F0:35:ASP:HA	1.92	0.51
3:D2:75:GLN:HG3	3:D2:184:GLN:HG2	1.93	0.51
3:D3:56:ILE:HG13	3:D3:74:PHE:HE1	1.72	0.51
3:D5:100:TYR:CZ	3:D5:167:MET:HB2	2.45	0.51
3:D9:75:GLN:HG3	3:D9:184:GLN:HG2	1.93	0.51
3:DA:31:VAL:HB	4:FA:34:ILE:O	2.10	0.51
3:DE:75:GLN:HG3	3:DE:184:GLN:HG2	1.93	0.51
3:DJ:75:GLN:HG3	3:DJ:184:GLN:HG2	1.93	0.51
3:DP:75:GLN:HG3	3:DP:184:GLN:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DR:60:PRO:O	3:DR:61:TYR:HB3	2.11	0.51
3:DR:75:GLN:HG3	3:DR:184:GLN:HG2	1.93	0.51
3:DT:102:GLY:HA3	3:DT:214:PHE:HA	1.93	0.51
3:DU:60:PRO:O	3:DU:61:TYR:HB3	2.11	0.51
3:DV:102:GLY:HA3	3:DV:214:PHE:HA	1.93	0.51
3:Df:102:GLY:HA3	3:Df:214:PHE:HA	1.93	0.51
3:Dh:75:GLN:HG3	3:Dh:184:GLN:HG2	1.93	0.51
3:Dj:102:GLY:HA3	3:Dj:214:PHE:HA	1.93	0.51
3:DI:31:VAL:HG12	4:FI:35:ASP:HA	1.92	0.51
3:Do:31:VAL:HG12	4:Fo:35:ASP:HA	1.92	0.51
3:Dq:60:PRO:O	3:Dq:61:TYR:HB3	2.11	0.51
3:Ds:102:GLY:HA3	3:Ds:214:PHE:HA	1.93	0.51
3:EC:75:GLN:HG3	3:EC:184:GLN:HG2	1.93	0.51
3:ED:102:GLY:HA3	3:ED:214:PHE:HA	1.93	0.51
4:FG:25:PHE:CD2	4:FG:26:TYR:CE1	2.98	0.51
4:FR:25:PHE:CD2	4:FR:26:TYR:CE1	2.98	0.51
1:A0:19:LEU:HD12	2:C0:48:SER:HB2	1.93	0.51
1:A0:107:PHE:HE1	1:A0:196:LEU:HB2	1.76	0.51
1:A1:22:VAL:C	1:A1:24:MET:H	2.18	0.51
1:A1:106:TRP:O	1:A1:139:SER:HB2	2.11	0.51
1:A3:19:LEU:HD12	2:C8:48:SER:HB2	1.93	0.51
1:A3:181:LYS:O	1:A3:182:ALA:HB2	2.11	0.51
1:A4:37:PHE:HA	1:A4:211:TYR:O	2.10	0.51
1:A6:48:LEU:O	1:A6:131:GLN:NE2	2.43	0.51
1:A8:106:TRP:O	1:A8:139:SER:HB2	2.11	0.51
1:A9:109:VAL:HG22	1:A9:191:HIS:CD2	2.46	0.51
1:AA:210:ARG:HD2	3:DA:14:PHE:CZ	2.46	0.51
1:AB:50:GLY:O	1:AB:131:GLN:NE2	2.43	0.51
1:AB:181:LYS:O	1:AB:182:ALA:HB2	2.11	0.51
1:AC:40:VAL:HG22	1:AC:211:TYR:CE1	2.46	0.51
1:AD:181:LYS:O	1:AD:182:ALA:HB2	2.11	0.51
1:AF:22:VAL:C	1:AF:24:MET:H	2.18	0.51
1:AF:109:VAL:HG22	1:AF:191:HIS:CD2	2.46	0.51
1:AF:210:ARG:HD2	3:DF:14:PHE:CZ	2.46	0.51
1:AF:239:PHE:CD1	3:DF:170:TYR:CD2	2.96	0.51
1:AG:107:PHE:HE1	1:AG:196:LEU:HB2	1.76	0.51
1:AG:121:LEU:HD13	1:AG:121:LEU:C	2.36	0.51
1:AH:50:GLY:O	1:AH:131:GLN:NE2	2.43	0.51
1:AI:210:ARG:HD2	3:DI:14:PHE:CZ	2.46	0.51
1:AK:106:TRP:O	1:AK:139:SER:HB2	2.11	0.51
1:AM:40:VAL:HG22	1:AM:211:TYR:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:76:THR:O	1:AM:169:VAL:HG23	2.10	0.51
1:AM:108:PRO:HA	1:AM:161:THR:HG21	1.92	0.51
1:AM:110:GLY:H	1:AN:242:ASN:HB2	1.75	0.51
1:AM:210:ARG:HD2	3:DM:14:PHE:CZ	2.46	0.51
1:AP:121:LEU:C	1:AP:121:LEU:HD13	2.36	0.51
1:AQ:37:PHE:HA	1:AQ:211:TYR:O	2.10	0.51
1:AS:242:ASN:HB2	1:Ao:110:GLY:H	1.75	0.51
1:AT:19:LEU:HD12	2:CY:48:SER:HB2	1.93	0.51
1:AT:107:PHE:HE1	1:AT:196:LEU:HB2	1.76	0.51
1:AU:22:VAL:C	1:AU:24:MET:H	2.18	0.51
1:AX:22:VAL:C	1:AX:24:MET:H	2.18	0.51
1:AZ:22:VAL:C	1:AZ:24:MET:H	2.18	0.51
1:AZ:37:PHE:HA	1:AZ:211:TYR:O	2.10	0.51
1:AZ:151:SER:C	1:AZ:153:ALA:H	2.19	0.51
1:AZ:170:PHE:CD2	1:AZ:222:ARG:CZ	2.87	0.51
1:Aa:107:PHE:HE1	1:Aa:196:LEU:HB2	1.76	0.51
1:Ad:40:VAL:HG22	1:Ad:211:TYR:CE1	2.46	0.51
1:Ad:121:LEU:CD2	1:Ae:206:GLY:HA3	2.39	0.51
1:Ae:109:VAL:HG22	1:Ae:191:HIS:CD2	2.46	0.51
1:Ag:109:VAL:H	1:Ag:161:THR:HB	1.74	0.51
1:Ai:48:LEU:O	1:Ai:131:GLN:NE2	2.43	0.51
1:Ai:109:VAL:HG22	1:Ai:191:HIS:CD2	2.46	0.51
1:Ai:210:ARG:HD2	3:Dk:14:PHE:CZ	2.46	0.51
1:Aj:50:GLY:O	1:Aj:131:GLN:NE2	2.43	0.51
1:Aj:107:PHE:HE1	1:Aj:196:LEU:HB2	1.76	0.51
1:BA:22:VAL:C	1:BA:24:MET:H	2.18	0.51
1:BB:19:LEU:HD12	2:Cp:48:SER:HB2	1.93	0.51
1:BB:40:VAL:HG22	1:BB:211:TYR:CE1	2.46	0.51
1:BD:181:LYS:O	1:BD:182:ALA:HB2	2.11	0.51
1:BE:108:PRO:HA	1:BE:161:THR:HG21	1.92	0.51
1:BE:109:VAL:HG22	1:BE:191:HIS:CD2	2.46	0.51
1:BE:151:SER:C	1:BE:153:ALA:H	2.19	0.51
1:BF:19:LEU:HD12	2:Ct:48:SER:HB2	1.93	0.51
1:BG:22:VAL:C	1:BG:24:MET:H	2.18	0.51
1:BH:210:ARG:HD2	3:ED:14:PHE:CZ	2.46	0.51
1:BI:86:ILE:HD12	1:BI:86:ILE:H	1.73	0.51
2:C3:152:TYR:CB	2:C3:197:LEU:HD22	2.40	0.51
2:C5:52:THR:OG1	2:CF:57:THR:HB	2.11	0.51
2:C5:80:ILE:HD11	2:C5:132:TYR:OH	2.11	0.51
2:C7:135:THR:HB	2:C7:139:ALA:CA	2.41	0.51
2:C9:124:LEU:HD12	2:C9:163:LEU:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:186:LEU:O	2:CA:186:LEU:HD23	2.11	0.51
2:CB:16:THR:HA	2:CB:24:ILE:O	2.11	0.51
2:CC:52:THR:OG1	2:Cm:57:THR:HB	2.11	0.51
2:CC:80:ILE:HG23	2:CC:82:PRO:HD3	1.91	0.51
2:CE:163:LEU:HD21	2:CE:169:SER:C	2.36	0.51
2:CF:135:THR:HB	2:CF:139:ALA:CA	2.41	0.51
2:CH:52:THR:OG1	2:Cr:57:THR:HB	2.11	0.51
2:CH:104:VAL:HG22	2:CH:222:VAL:HG13	1.92	0.51
2:CJ:163:LEU:HD21	2:CJ:169:SER:C	2.36	0.51
2:CL:163:LEU:HD21	2:CL:169:SER:C	2.36	0.51
2:CM:163:LEU:HD21	2:CM:169:SER:C	2.36	0.51
2:CN:16:THR:HA	2:CN:24:ILE:O	2.11	0.51
2:CP:135:THR:HB	2:CP:139:ALA:CA	2.41	0.51
2:CQ:163:LEU:HD21	2:CQ:169:SER:C	2.36	0.51
2:CT:80:ILE:HG23	2:CT:82:PRO:HD3	1.91	0.51
2:CT:135:THR:HB	2:CT:139:ALA:CA	2.41	0.51
2:CT:153:GLN:NE2	3:DT:55:SER:N	2.58	0.51
2:CT:163:LEU:HD21	2:CT:169:SER:C	2.36	0.51
2:CU:24:ILE:HG23	3:Dg:145:VAL:HB	1.92	0.51
2:CV:24:ILE:HG23	3:DB:145:VAL:HB	1.92	0.51
2:CV:104:VAL:HG22	2:CV:222:VAL:HG13	1.93	0.51
2:CV:186:LEU:O	2:CV:186:LEU:HD23	2.11	0.51
2:Ca:27:GLN:HG3	2:Ca:28:GLY:H	1.73	0.51
2:Cb:152:TYR:CD1	2:Cb:152:TYR:C	2.88	0.51
2:Cc:16:THR:HA	2:Cc:24:ILE:O	2.11	0.51
2:Cc:135:THR:HB	2:Cc:139:ALA:CA	2.41	0.51
2:Cc:163:LEU:HD21	2:Cc:169:SER:C	2.36	0.51
2:Ce:80:ILE:HG23	2:Cc:82:PRO:HD3	1.91	0.51
2:Cg:124:LEU:HD12	2:Cg:163:LEU:HD12	1.92	0.51
2:Cg:163:LEU:HD21	2:Cg:169:SER:C	2.36	0.51
2:Ch:124:LEU:HD12	2:Ch:163:LEU:HD12	1.91	0.51
2:Cl:124:LEU:HD12	2:Cl:163:LEU:CD1	2.40	0.51
2:Cn:16:THR:HA	2:Cn:24:ILE:O	2.11	0.51
2:Cn:124:LEU:HD12	2:Cn:163:LEU:CD1	2.40	0.51
2:Cq:16:THR:HA	2:Cq:24:ILE:O	2.11	0.51
2:Cr:49:ASP:CB	3:Ds:161:SER:HB3	2.40	0.51
2:Cr:152:TYR:CB	2:Cr:197:LEU:HD22	2.40	0.51
2:Cr:163:LEU:HD21	2:Cr:169:SER:C	2.36	0.51
2:Cs:104:VAL:HG22	2:Cs:222:VAL:HG13	1.92	0.51
2:Cv:124:LEU:HD12	2:Cv:163:LEU:HD12	1.92	0.51
2:Cw:152:TYR:CB	2:Cw:197:LEU:HD22	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cx:163:LEU:HD21	2:Cx:169:SER:C	2.36	0.51
3:D1:75:GLN:HG3	3:D1:184:GLN:HG2	1.93	0.51
3:D2:31:VAL:HG12	4:F2:35:ASP:HA	1.92	0.51
3:D4:103:SER:HB3	3:D4:159:PRO:CA	2.35	0.51
3:D6:42:ASN:HD22	3:D6:44:ILE:N	2.08	0.51
3:D7:60:PRO:O	3:D7:61:TYR:HB3	2.11	0.51
3:D9:56:ILE:HG13	3:D9:74:PHE:HE1	1.72	0.51
3:DB:31:VAL:HG12	4:FB:35:ASP:HA	1.92	0.51
3:DC:102:GLY:HA3	3:DC:214:PHE:HA	1.93	0.51
3:DF:31:VAL:HB	4:FF:34:ILE:O	2.10	0.51
3:DI:60:PRO:O	3:DI:61:TYR:HB3	2.11	0.51
3:DI:75:GLN:HG3	3:DI:184:GLN:HG2	1.93	0.51
3:DN:60:PRO:O	3:DN:61:TYR:HB3	2.11	0.51
3:DT:31:VAL:HG12	4:FT:35:ASP:HA	1.92	0.51
3:DT:56:ILE:HG13	3:DT:74:PHE:HE1	1.72	0.51
3:Da:56:ILE:HG13	3:Da:74:PHE:HE1	1.72	0.51
3:Db:56:ILE:HD13	3:Db:206:VAL:HG11	1.91	0.51
3:Db:60:PRO:O	3:Db:61:TYR:HB3	2.11	0.51
3:Df:56:ILE:HG13	3:Df:74:PHE:HE1	1.72	0.51
3:Dm:19:PRO:HG3	4:Fm:17:ASN:ND2	2.26	0.51
3:Dm:60:PRO:O	3:Dm:61:TYR:HB3	2.11	0.51
3:Dn:75:GLN:HG3	3:Dn:184:GLN:HG2	1.93	0.51
3:Do:102:GLY:HA3	3:Do:214:PHE:HA	1.93	0.51
3:Ds:108:PHE:HA	3:Ds:205:LEU:O	2.09	0.51
3:EE:31:VAL:HG12	4:Fx:35:ASP:HA	1.92	0.51
4:FU:25:PHE:CD2	4:FU:26:TYR:CE1	2.98	0.51
1:A1:109:VAL:HG22	1:A1:191:HIS:CD2	2.46	0.51
1:A2:19:LEU:HD12	2:C2:48:SER:HB2	1.93	0.51
1:A2:109:VAL:HG22	1:A2:191:HIS:CD2	2.46	0.51
1:A2:121:LEU:HD13	1:A2:121:LEU:C	2.36	0.51
1:A3:50:GLY:O	1:A3:131:GLN:NE2	2.43	0.51
1:A3:109:VAL:HG22	1:A3:191:HIS:CD2	2.46	0.51
1:A3:110:GLY:H	1:A4:242:ASN:HB2	1.75	0.51
1:A3:121:LEU:HD13	1:A3:121:LEU:C	2.36	0.51
1:A4:109:VAL:HG22	1:A4:191:HIS:CD2	2.46	0.51
1:A5:109:VAL:HG22	1:A5:191:HIS:CD2	2.46	0.51
1:A6:19:LEU:HD12	2:C6:48:SER:HB2	1.93	0.51
1:A6:37:PHE:HA	1:A6:211:TYR:O	2.10	0.51
1:A6:181:LYS:O	1:A6:182:ALA:HB2	2.11	0.51
1:A6:210:ARG:HD2	3:D7:14:PHE:CZ	2.46	0.51
1:A8:149:SER:C	1:A8:151:SER:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:150:ARG:HE	1:A8:150:ARG:H	1.59	0.51
1:A8:181:LYS:O	1:A8:182:ALA:HB2	2.11	0.51
1:A9:50:GLY:O	1:A9:131:GLN:NE2	2.43	0.51
1:A9:151:SER:C	1:A9:153:ALA:H	2.19	0.51
1:AA:30:VAL:CG1	1:AA:218:MET:HE3	2.34	0.51
1:AC:48:LEU:HD23	1:AC:198:THR:OG1	2.11	0.51
1:AD:210:ARG:HD2	3:DD:14:PHE:CZ	2.46	0.51
1:AE:210:ARG:HD2	3:DE:14:PHE:CZ	2.46	0.51
1:AF:107:PHE:HE1	1:AF:196:LEU:HB2	1.76	0.51
1:AG:181:LYS:O	1:AG:182:ALA:HB2	2.11	0.51
1:AH:107:PHE:HE1	1:AH:196:LEU:HB2	1.76	0.51
1:AI:109:VAL:HG22	1:AI:191:HIS:CD2	2.46	0.51
1:AJ:210:ARG:HD2	3:DJ:14:PHE:CZ	2.46	0.51
1:AL:109:VAL:HG22	1:AL:191:HIS:CD2	2.46	0.51
1:AM:184:TYR:HE2	2:CM:139:ALA:CB	2.23	0.51
1:AO:109:VAL:HG22	1:AO:191:HIS:CD2	2.46	0.51
1:AQ:110:GLY:H	1:AR:242:ASN:HB2	1.75	0.51
1:AQ:181:LYS:O	1:AQ:182:ALA:HB2	2.11	0.51
1:AR:181:LYS:O	1:AR:182:ALA:HB2	2.11	0.51
1:AS:22:VAL:C	1:AS:24:MET:H	2.18	0.51
1:AS:109:VAL:HG22	1:AS:191:HIS:CD2	2.46	0.51
1:AU:181:LYS:O	1:AU:182:ALA:HB2	2.11	0.51
1:AV:107:PHE:HE1	1:AV:196:LEU:HB2	1.76	0.51
1:AX:19:LEU:HD12	2:CX:48:SER:HB2	1.93	0.51
1:AX:151:SER:C	1:AX:153:ALA:H	2.19	0.51
1:AY:19:LEU:HD12	2:C3:48:SER:HB2	1.93	0.51
1:AY:48:LEU:O	1:AY:131:GLN:NE2	2.43	0.51
1:AZ:107:PHE:HE1	1:AZ:196:LEU:HB2	1.76	0.51
1:Aa:37:PHE:HA	1:Aa:211:TYR:O	2.10	0.51
1:Ab:181:LYS:O	1:Ab:182:ALA:HB2	2.11	0.51
1:Ac:19:LEU:HD12	2:Ci:48:SER:HB2	1.93	0.51
1:Ac:101:PHE:CD2	1:Ac:143:VAL:HG11	2.44	0.51
1:Ae:22:VAL:C	1:Ae:24:MET:H	2.18	0.51
1:Ag:108:PRO:HA	1:Ag:161:THR:HG21	1.92	0.51
1:Al:40:VAL:HG22	1:Al:211:TYR:CE1	2.46	0.51
1:Al:50:GLY:O	1:Al:131:GLN:NE2	2.43	0.51
1:Al:181:LYS:O	1:Al:182:ALA:HB2	2.11	0.51
1:Am:76:THR:O	1:Am:169:VAL:HG23	2.10	0.51
1:An:40:VAL:HG22	1:An:211:TYR:CE1	2.46	0.51
1:Ao:37:PHE:HA	1:Ao:211:TYR:O	2.10	0.51
1:Ao:40:VAL:HG22	1:Ao:211:TYR:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:107:PHE:HE1	1:BE:196:LEU:HB2	1.76	0.51
1:BE:121:LEU:C	1:BE:121:LEU:HD13	2.36	0.51
1:BF:40:VAL:HG22	1:BF:211:TYR:CE1	2.46	0.51
1:BF:151:SER:C	1:BF:153:ALA:H	2.19	0.51
1:BH:76:THR:O	1:BH:169:VAL:HG23	2.10	0.51
1:BI:186:TRP:O	1:BI:187:LEU:HB3	2.09	0.51
2:C0:124:LEU:HD12	2:C0:163:LEU:CD1	2.40	0.51
2:C1:48:SER:O	3:D2:159:PRO:HB2	2.11	0.51
2:C2:152:TYR:CB	2:C2:197:LEU:HD22	2.40	0.51
2:C6:163:LEU:HD21	2:C6:169:SER:C	2.36	0.51
2:C9:80:ILE:HD11	2:C9:132:TYR:OH	2.11	0.51
2:CA:117:SER:OG	2:CA:118:PHE:N	2.41	0.51
2:CB:115:ASN:HD22	3:Df:190:ALA:C	2.17	0.51
2:CD:80:ILE:HD11	2:CD:132:TYR:OH	2.11	0.51
2:CD:124:LEU:HD12	2:CD:163:LEU:HD12	1.92	0.51
2:CF:16:THR:HA	2:CF:24:ILE:O	2.11	0.51
2:CG:163:LEU:HD21	2:CG:169:SER:C	2.36	0.51
2:CK:80:ILE:HD11	2:CK:132:TYR:OH	2.11	0.51
2:CK:152:TYR:CD1	2:CK:152:TYR:C	2.88	0.51
2:CL:226:LEU:CD2	3:DM:126:PRO:HG2	2.36	0.51
2:CM:73:GLN:HA	2:CM:73:GLN:NE2	2.17	0.51
2:CN:152:TYR:CB	2:CN:197:LEU:HD22	2.40	0.51
2:CN:186:LEU:O	2:CN:186:LEU:HD23	2.11	0.51
2:CO:80:ILE:HG23	2:CO:82:PRO:HD3	1.91	0.51
2:CQ:153:GLN:HA	3:DQ:53:PHE:HB2	1.93	0.51
2:CR:226:LEU:CD2	3:DS:126:PRO:HG2	2.36	0.51
2:CS:80:ILE:HD11	2:CS:132:TYR:OH	2.11	0.51
2:CT:80:ILE:HD11	2:CT:132:TYR:OH	2.11	0.51
2:CU:80:ILE:HD11	2:CU:132:TYR:OH	2.11	0.51
2:CV:87:LYS:HG3	2:CV:142:TRP:CD2	2.45	0.51
2:CV:135:THR:HB	2:CV:139:ALA:CA	2.41	0.51
2:CV:163:LEU:HD21	2:CV:169:SER:C	2.36	0.51
2:CX:135:THR:HB	2:CX:139:ALA:CA	2.41	0.51
2:CY:80:ILE:HD11	2:CY:132:TYR:OH	2.11	0.51
2:CZ:16:THR:HA	2:CZ:24:ILE:O	2.11	0.51
2:Ce:104:VAL:HG22	2:Ce:222:VAL:HG13	1.92	0.51
2:Cf:87:LYS:HG3	2:Cf:142:TRP:CD2	2.45	0.51
2:Ch:186:LEU:O	2:Ch:186:LEU:HD23	2.11	0.51
2:Cj:124:LEU:HD12	2:Cj:163:LEU:CD1	2.40	0.51
2:Cl:135:THR:HB	2:Cl:139:ALA:CA	2.41	0.51
2:Cm:163:LEU:HD21	2:Cm:169:SER:C	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cp:186:LEU:O	2:Cp:186:LEU:HD23	2.11	0.51
2:Cq:80:ILE:HD11	2:Cq:132:TYR:OH	2.11	0.51
2:Cq:163:LEU:HD21	2:Cq:169:SER:C	2.36	0.51
2:Cr:80:ILE:HG23	2:Cr:82:PRO:HD3	1.91	0.51
2:Ct:115:ASN:CA	3:DH:119:LYS:HZ3	2.24	0.51
2:Cu:186:LEU:O	2:Cu:186:LEU:HD23	2.11	0.51
2:Cv:135:THR:HB	2:Cv:139:ALA:CA	2.41	0.51
2:Cx:24:ILE:HG23	3:Do:145:VAL:HB	1.92	0.51
3:D2:169:VAL:O	3:D2:169:VAL:HG12	2.09	0.51
3:D4:42:ASN:HD22	3:D4:44:ILE:N	2.07	0.51
3:D8:31:VAL:HB	4:F8:34:ILE:O	2.10	0.51
3:D8:102:GLY:HA3	3:D8:214:PHE:HA	1.93	0.51
3:D9:31:VAL:HG12	4:F9:35:ASP:HA	1.92	0.51
3:D9:31:VAL:HB	4:F9:34:ILE:O	2.10	0.51
3:DA:42:ASN:HD22	3:DA:44:ILE:N	2.08	0.51
3:DF:31:VAL:HG12	4:FF:35:ASP:HA	1.92	0.51
3:DF:56:ILE:HD13	3:DF:206:VAL:HG11	1.91	0.51
3:DH:75:GLN:HG3	3:DH:184:GLN:HG2	1.93	0.51
3:DO:19:PRO:HG3	4:FO:17:ASN:ND2	2.26	0.51
3:DO:102:GLY:HA3	3:DO:214:PHE:HA	1.93	0.51
3:DU:31:VAL:HG12	4:FU:35:ASP:HA	1.92	0.51
3:DX:75:GLN:HG3	3:DX:184:GLN:HG2	1.93	0.51
3:Db:75:GLN:HG3	3:Db:184:GLN:HG2	1.93	0.51
3:Df:31:VAL:HB	4:Ff:34:ILE:O	2.10	0.51
3:Dh:42:ASN:HD22	3:Dh:44:ILE:N	2.08	0.51
3:Do:56:ILE:HG13	3:Do:74:PHE:HE1	1.72	0.51
3:Dr:102:GLY:HA3	3:Dr:214:PHE:HA	1.93	0.51
4:F6:25:PHE:CD2	4:F6:26:TYR:CE1	2.98	0.51
1:A0:106:TRP:O	1:A0:139:SER:HB2	2.11	0.50
1:A1:76:THR:O	1:A1:169:VAL:HG23	2.10	0.50
1:A1:210:ARG:HD2	3:D2:14:PHE:CZ	2.46	0.50
1:A2:151:SER:C	1:A2:153:ALA:H	2.19	0.50
1:A3:106:TRP:O	1:A3:139:SER:HB2	2.11	0.50
1:A4:86:ILE:CD1	1:A4:86:ILE:H	2.23	0.50
1:A5:181:LYS:O	1:A5:182:ALA:HB2	2.11	0.50
1:A6:121:LEU:HD13	1:A6:121:LEU:C	2.36	0.50
1:A8:40:VAL:HG22	1:A8:211:TYR:CE1	2.46	0.50
1:A8:107:PHE:HE1	1:A8:196:LEU:HB2	1.76	0.50
1:AD:239:PHE:CD1	3:DD:170:TYR:CD2	2.96	0.50
1:AE:113:THR:O	1:AE:114:LYS:C	2.54	0.50
1:AF:121:LEU:HD13	1:AF:121:LEU:C	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:86:ILE:CD1	1:AI:86:ILE:H	2.23	0.50
1:AI:121:LEU:HD13	1:AI:121:LEU:C	2.36	0.50
1:AJ:86:ILE:CD1	1:AJ:86:ILE:H	2.23	0.50
1:AJ:109:VAL:HG22	1:AJ:191:HIS:CD2	2.46	0.50
1:AK:22:VAL:C	1:AK:24:MET:H	2.18	0.50
1:AK:206:GLY:HA3	1:AO:121:LEU:CD2	2.39	0.50
1:AL:107:PHE:HE1	1:AL:196:LEU:HB2	1.76	0.50
1:AL:170:PHE:CD2	1:AL:222:ARG:CZ	2.87	0.50
1:AN:149:SER:C	1:AN:151:SER:H	2.18	0.50
1:AN:181:LYS:O	1:AN:182:ALA:HB2	2.11	0.50
1:AO:40:VAL:HG22	1:AO:211:TYR:CE1	2.46	0.50
1:AO:121:LEU:C	1:AO:121:LEU:HD13	2.36	0.50
1:AP:48:LEU:HD23	1:AP:198:THR:OG1	2.12	0.50
1:AP:149:SER:C	1:AP:151:SER:H	2.18	0.50
1:AP:210:ARG:HD2	3:DP:14:PHE:CZ	2.46	0.50
1:AP:239:PHE:CD1	3:DP:170:TYR:CD2	2.96	0.50
1:AR:121:LEU:HD13	1:AR:121:LEU:C	2.36	0.50
1:AS:101:PHE:CD2	1:AS:143:VAL:HG11	2.44	0.50
1:AT:86:ILE:CD1	1:AT:86:ILE:H	2.23	0.50
1:AT:104:VAL:HG22	1:AT:197:LEU:HD21	1.90	0.50
1:AU:50:GLY:O	1:AU:131:GLN:NE2	2.43	0.50
1:AU:239:PHE:CD1	3:DV:170:TYR:CD2	2.96	0.50
1:AW:86:ILE:CD1	1:AW:86:ILE:H	2.23	0.50
1:AY:181:LYS:O	1:AY:182:ALA:HB2	2.11	0.50
1:AY:210:ARG:HD2	3:DZ:14:PHE:CZ	2.46	0.50
1:AZ:40:VAL:HG22	1:AZ:211:TYR:CE1	2.46	0.50
1:Aa:40:VAL:HG22	1:Aa:211:TYR:CE1	2.46	0.50
1:Ab:40:VAL:HG22	1:Ab:211:TYR:CE1	2.46	0.50
1:Ac:108:PRO:HA	1:Ac:161:THR:HG21	1.92	0.50
1:Ad:48:LEU:HD23	1:Ad:198:THR:OG1	2.12	0.50
1:Ad:101:PHE:CD2	1:Ad:143:VAL:HG11	2.44	0.50
1:Ad:121:LEU:C	1:Ad:121:LEU:HD13	2.36	0.50
1:Ae:150:ARG:HE	1:Ae:150:ARG:H	1.60	0.50
1:Ae:151:SER:C	1:Ae:153:ALA:H	2.19	0.50
1:Af:50:GLY:O	1:Af:131:GLN:NE2	2.43	0.50
1:Ah:30:VAL:CG1	1:Ah:218:MET:HE3	2.33	0.50
1:Ah:121:LEU:HD13	1:Ah:121:LEU:C	2.36	0.50
1:Ah:239:PHE:CD1	3:Dj:170:TYR:CD2	2.96	0.50
1:Ai:106:TRP:O	1:Ai:139:SER:HB2	2.11	0.50
1:Ai:170:PHE:CD2	1:Ai:222:ARG:CZ	2.87	0.50
1:Ak:121:LEU:CD2	1:Al:206:GLY:HA3	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Al:151:SER:C	1:Al:153:ALA:H	2.19	0.50
1:Am:19:LEU:HD12	2:Cs:48:SER:HB2	1.93	0.50
1:An:239:PHE:CD1	3:Db:170:TYR:CD2	2.96	0.50
1:Ao:113:THR:O	1:Ao:114:LYS:C	2.55	0.50
1:BA:48:LEU:HD23	1:BA:198:THR:OG1	2.11	0.50
1:BB:86:ILE:CD1	1:BB:86:ILE:H	2.23	0.50
1:BC:22:VAL:C	1:BC:24:MET:H	2.18	0.50
1:BC:181:LYS:O	1:BC:182:ALA:HB2	2.11	0.50
1:BD:48:LEU:HD23	1:BD:198:THR:OG1	2.12	0.50
1:BD:109:VAL:HG22	1:BD:191:HIS:CD2	2.46	0.50
1:BD:151:SER:C	1:BD:153:ALA:H	2.19	0.50
1:BG:151:SER:C	1:BG:153:ALA:H	2.19	0.50
1:BI:109:VAL:H	1:BI:161:THR:HB	1.74	0.50
1:BI:151:SER:C	1:BI:153:ALA:H	2.19	0.50
2:CA:135:THR:HB	2:CA:139:ALA:CA	2.41	0.50
2:CB:163:LEU:HD21	2:CB:169:SER:C	2.36	0.50
2:CD:135:THR:HB	2:CD:139:ALA:CA	2.41	0.50
2:CG:16:THR:HA	2:CG:24:ILE:O	2.11	0.50
2:CH:57:THR:HB	2:Cr:52:THR:OG1	2.10	0.50
2:CI:163:LEU:HD21	2:CI:169:SER:C	2.36	0.50
2:CJ:135:THR:HB	2:CJ:139:ALA:CA	2.41	0.50
2:CK:16:THR:HA	2:CK:24:ILE:O	2.11	0.50
2:CL:80:ILE:HD11	2:CL:132:TYR:OH	2.11	0.50
2:CN:135:THR:HB	2:CN:139:ALA:CA	2.41	0.50
2:CO:24:ILE:HG23	3:DP:145:VAL:HB	1.92	0.50
2:CP:186:LEU:O	2:CP:186:LEU:HD23	2.11	0.50
2:CQ:16:THR:HA	2:CQ:24:ILE:O	2.11	0.50
2:CQ:24:ILE:HG23	3:Dp:145:VAL:HB	1.92	0.50
2:CR:57:THR:HB	2:Cw:52:THR:OG1	2.11	0.50
2:CR:163:LEU:HD21	2:CR:169:SER:C	2.36	0.50
2:CU:52:THR:OG1	2:Cf:57:THR:HB	2.11	0.50
2:CW:16:THR:HA	2:CW:24:ILE:O	2.11	0.50
2:CY:49:ASP:CB	3:DU:161:SER:HB3	2.40	0.50
2:CY:163:LEU:HD21	2:CY:169:SER:C	2.36	0.50
2:Cb:104:VAL:HG22	2:Cb:222:VAL:HG13	1.92	0.50
2:Cb:115:ASN:CA	3:DT:119:LYS:HZ3	2.25	0.50
2:Cd:163:LEU:HD21	2:Cd:169:SER:C	2.36	0.50
2:Ce:135:THR:HB	2:Ce:139:ALA:CA	2.41	0.50
2:Cg:104:VAL:HG22	2:Cg:222:VAL:HG13	1.92	0.50
2:Ci:80:ILE:HD11	2:CI:132:TYR:OH	2.11	0.50
2:Cj:186:LEU:O	2:Cj:186:LEU:HD23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cm:152:TYR:CB	2:Cm:197:LEU:HD22	2.40	0.50
2:Cn:87:LYS:HG3	2:Cn:142:TRP:CD2	2.45	0.50
2:Co:153:GLN:NE2	3:Do:55:SER:N	2.58	0.50
2:Cr:80:ILE:HD11	2:Cr:132:TYR:OH	2.11	0.50
2:Cs:16:THR:HA	2:Cs:24:ILE:O	2.11	0.50
2:Cs:209:VAL:N	2:Cs:210:PRO:CD	2.68	0.50
2:Ct:48:SER:O	3:EB:159:PRO:HB2	2.12	0.50
2:Cu:48:SER:O	3:EC:159:PRO:HB2	2.12	0.50
2:Cx:49:ASP:CB	3:EA:161:SER:HB3	2.40	0.50
3:DA:42:ASN:HD22	3:DA:44:ILE:HG22	1.65	0.50
3:DA:102:GLY:HA3	3:DA:214:PHE:HA	1.93	0.50
3:DB:103:SER:HB3	3:DB:159:PRO:CA	2.35	0.50
3:DF:102:GLY:HA3	3:DF:214:PHE:HA	1.93	0.50
3:DG:60:PRO:O	3:DG:61:TYR:HB3	2.11	0.50
3:DI:102:GLY:HA3	3:DI:214:PHE:HA	1.93	0.50
3:DJ:31:VAL:HG12	4:FJ:35:ASP:HA	1.92	0.50
3:DL:31:VAL:HB	4:FL:34:ILE:O	2.10	0.50
3:DM:31:VAL:HG12	4:FM:35:ASP:HA	1.92	0.50
3:DM:75:GLN:HG3	3:DM:184:GLN:HG2	1.93	0.50
3:DS:102:GLY:HA3	3:DS:214:PHE:HA	1.93	0.50
3:Dd:19:PRO:HG3	4:Fd:17:ASN:ND2	2.26	0.50
3:De:102:GLY:HA3	3:De:214:PHE:HA	1.93	0.50
3:Dn:31:VAL:HB	4:Fh:34:ILE:O	2.10	0.50
3:Do:75:GLN:HG3	3:Do:184:GLN:HG2	1.93	0.50
3:EA:103:SER:HB3	3:EA:159:PRO:CA	2.35	0.50
3:EC:31:VAL:HG12	4:Fv:35:ASP:HA	1.92	0.50
1:A0:30:VAL:CG1	1:A0:218:MET:HE3	2.34	0.50
1:A1:19:LEU:HD12	2:C1:48:SER:HB2	1.93	0.50
1:A2:109:VAL:H	1:A2:161:THR:HB	1.74	0.50
1:A3:151:SER:C	1:A3:153:ALA:H	2.19	0.50
1:A4:121:LEU:HD13	1:A4:121:LEU:C	2.36	0.50
1:A5:151:SER:C	1:A5:153:ALA:H	2.19	0.50
1:A6:86:ILE:CD1	1:A6:86:ILE:H	2.23	0.50
1:A9:40:VAL:HG22	1:A9:211:TYR:CE1	2.46	0.50
1:AB:40:VAL:HG22	1:AB:211:TYR:CE1	2.46	0.50
1:AB:86:ILE:HD12	1:AB:86:ILE:H	1.72	0.50
1:AB:113:THR:O	1:AB:114:LYS:C	2.54	0.50
1:AC:110:GLY:H	1:AD:242:ASN:HB2	1.75	0.50
1:AD:121:LEU:CD2	1:AE:206:GLY:HA3	2.39	0.50
1:AE:19:LEU:HD12	2:CD:48:SER:HB2	1.93	0.50
1:AE:109:VAL:H	1:AE:161:THR:HB	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:181:LYS:O	1:AE:182:ALA:HB2	2.11	0.50
1:AF:104:VAL:HG22	1:AF:197:LEU:HD21	1.90	0.50
1:AF:113:THR:O	1:AF:114:LYS:C	2.55	0.50
1:AF:151:SER:C	1:AF:153:ALA:H	2.19	0.50
1:AG:150:ARG:H	1:AG:150:ARG:HE	1.60	0.50
1:AH:121:LEU:HD13	1:AH:121:LEU:C	2.36	0.50
1:AI:181:LYS:O	1:AI:182:ALA:HB2	2.11	0.50
1:AJ:171:TYR:N	1:AJ:185:ASN:OD1	2.45	0.50
1:AP:121:LEU:CD2	1:AQ:206:GLY:HA3	2.39	0.50
1:AQ:19:LEU:HD12	2:CP:48:SER:HB2	1.93	0.50
1:AQ:210:ARG:HD2	3:DQ:14:PHE:CZ	2.46	0.50
1:AR:239:PHE:CD1	3:DR:170:TYR:CD2	2.96	0.50
1:AS:171:TYR:N	1:AS:185:ASN:OD1	2.45	0.50
1:AT:40:VAL:HG22	1:AT:211:TYR:CE1	2.46	0.50
1:AU:106:TRP:O	1:AU:139:SER:HB2	2.11	0.50
1:AX:113:THR:O	1:AX:114:LYS:C	2.55	0.50
1:AY:113:THR:O	1:AY:114:LYS:C	2.54	0.50
1:AZ:210:ARG:HD2	3:D0:14:PHE:CZ	2.46	0.50
1:Aa:48:LEU:HD23	1:Aa:198:THR:OG1	2.12	0.50
1:Ab:150:ARG:HE	1:Ab:150:ARG:H	1.60	0.50
1:Ac:48:LEU:HD23	1:Ac:198:THR:OG1	2.12	0.50
1:Ad:109:VAL:HG22	1:Ad:191:HIS:CD2	2.46	0.50
1:Af:110:GLY:H	1:Ag:242:ASN:HB2	1.75	0.50
1:Ag:107:PHE:HE1	1:Ag:196:LEU:HB2	1.76	0.50
1:Ag:113:THR:O	1:Ag:114:LYS:C	2.55	0.50
1:Ag:210:ARG:HD2	3:Di:14:PHE:CZ	2.46	0.50
1:Ah:107:PHE:HE1	1:Ah:196:LEU:HB2	1.76	0.50
1:Ah:113:THR:O	1:Ah:114:LYS:C	2.55	0.50
1:Ah:171:TYR:N	1:Ah:185:ASN:OD1	2.45	0.50
1:Ai:107:PHE:HE1	1:Ai:196:LEU:HB2	1.76	0.50
1:Ai:157:SER:CB	3:Dk:24:PRO:HA	2.36	0.50
1:Ai:181:LYS:O	1:Ai:182:ALA:HB2	2.11	0.50
1:Aj:22:VAL:C	1:Aj:24:MET:H	2.18	0.50
1:Ak:19:LEU:HD12	2:Cl:48:SER:HB2	1.93	0.50
1:Am:121:LEU:HD13	1:Am:121:LEU:C	2.36	0.50
1:Ao:181:LYS:O	1:Ao:182:ALA:HB2	2.11	0.50
1:BB:48:LEU:O	1:BB:131:GLN:NE2	2.43	0.50
1:BC:48:LEU:HD23	1:BC:198:THR:OG1	2.12	0.50
1:BC:50:GLY:O	1:BC:131:GLN:NE2	2.43	0.50
1:BD:210:ARG:HD2	3:Ds:14:PHE:CZ	2.46	0.50
1:BF:50:GLY:O	1:BF:131:GLN:NE2	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:109:VAL:HG22	1:BF:191:HIS:CD2	2.46	0.50
1:BF:121:LEU:C	1:BF:121:LEU:HD13	2.36	0.50
1:BG:19:LEU:HD12	2:Cu:48:SER:HB2	1.93	0.50
1:BG:109:VAL:HG22	1:BG:191:HIS:CD2	2.46	0.50
1:BH:48:LEU:HD23	1:BH:198:THR:OG1	2.11	0.50
1:BH:121:LEU:HD13	1:BH:121:LEU:C	2.36	0.50
1:BI:170:PHE:CD2	1:BI:222:ARG:CZ	2.87	0.50
2:C0:16:THR:HA	2:C0:24:ILE:O	2.11	0.50
2:C4:152:TYR:CB	2:C4:197:LEU:HD22	2.40	0.50
2:C5:163:LEU:HD21	2:C5:169:SER:C	2.36	0.50
2:C6:52:THR:OG1	2:CD:57:THR:HB	2.11	0.50
2:C7:80:ILE:HD11	2:C7:132:TYR:OH	2.11	0.50
2:C8:186:LEU:O	2:C8:186:LEU:HD23	2.11	0.50
2:C9:16:THR:HA	2:C9:24:ILE:O	2.11	0.50
2:C9:152:TYR:CB	2:C9:197:LEU:HD22	2.40	0.50
2:CA:152:TYR:CB	2:CA:197:LEU:HD22	2.40	0.50
2:CD:186:LEU:O	2:CD:186:LEU:HD23	2.11	0.50
2:CE:153:GLN:HA	3:DE:53:PHE:HB2	1.94	0.50
2:CE:186:LEU:O	2:CE:186:LEU:HD23	2.11	0.50
2:CF:152:TYR:CB	2:CF:197:LEU:HD22	2.40	0.50
2:CF:153:GLN:HA	3:DF:53:PHE:HB2	1.94	0.50
2:CI:153:GLN:HA	3:DI:53:PHE:HB2	1.94	0.50
2:CK:153:GLN:HA	3:DK:53:PHE:HB2	1.94	0.50
2:CM:153:GLN:HA	3:DM:53:PHE:HB2	1.94	0.50
2:CO:57:THR:HB	2:CT:52:THR:OG1	2.11	0.50
2:CR:104:VAL:HG22	2:CR:222:VAL:HG13	1.93	0.50
2:CS:152:TYR:CB	2:CS:197:LEU:HD22	2.40	0.50
2:CU:104:VAL:HG22	2:CU:222:VAL:HG13	1.92	0.50
2:CU:163:LEU:HD21	2:CU:169:SER:C	2.36	0.50
2:CW:186:LEU:O	2:CW:186:LEU:HD23	2.11	0.50
2:CY:104:VAL:HG22	2:CY:222:VAL:HG13	1.92	0.50
2:CY:153:GLN:HA	3:DY:53:PHE:HB2	1.94	0.50
2:Ca:152:TYR:CD1	2:Ca:152:TYR:C	2.88	0.50
2:Ca:163:LEU:HD21	2:Ca:169:SER:C	2.36	0.50
2:Cc:52:THR:OG1	2:Cv:57:THR:HB	2.11	0.50
2:Cd:186:LEU:O	2:Cd:186:LEU:HD23	2.11	0.50
2:Cf:16:THR:HA	2:Cf:24:ILE:O	2.11	0.50
2:Cf:152:TYR:CB	2:Cf:197:LEU:HD22	2.40	0.50
2:Cf:163:LEU:HD21	2:Cf:169:SER:C	2.36	0.50
2:Ch:104:VAL:HG22	2:Ch:222:VAL:HG13	1.92	0.50
2:Ck:135:THR:HB	2:Ck:139:ALA:CA	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Co:152:TYR:CB	2:Co:197:LEU:HD22	2.40	0.50
2:Cs:48:SER:O	3:Do:159:PRO:HB2	2.12	0.50
2:Cs:153:GLN:HA	3:Ds:53:PHE:HB2	1.94	0.50
2:Cx:80:ILE:HD11	2:Cx:132:TYR:OH	2.11	0.50
3:D7:3:ILE:HG22	3:D7:4:ARG:N	2.27	0.50
3:DC:56:ILE:HG13	3:DC:74:PHE:HE1	1.72	0.50
3:DF:60:PRO:O	3:DF:61:TYR:HB3	2.11	0.50
3:DH:169:VAL:O	3:DH:169:VAL:HG12	2.09	0.50
3:DP:169:VAL:HG12	3:DP:169:VAL:O	2.09	0.50
3:DQ:31:VAL:HB	4:FQ:34:ILE:O	2.10	0.50
3:DT:19:PRO:HG3	4:FT:17:ASN:ND2	2.26	0.50
3:DT:60:PRO:O	3:DT:61:TYR:HB3	2.11	0.50
3:DV:19:PRO:HG3	4:FV:17:ASN:ND2	2.26	0.50
3:DY:31:VAL:HG12	4:FY:35:ASP:HA	1.92	0.50
3:Di:102:GLY:HA3	3:Di:214:PHE:HA	1.93	0.50
3:Dk:19:PRO:HG3	4:Fk:17:ASN:ND2	2.26	0.50
3:Do:42:ASN:HD22	3:Do:44:ILE:N	2.08	0.50
3:Dp:3:ILE:HG22	3:Dp:4:ARG:N	2.27	0.50
3:Dq:102:GLY:HA3	3:Dq:214:PHE:HA	1.93	0.50
3:EB:60:PRO:O	3:EB:61:TYR:HB3	2.11	0.50
3:EC:60:PRO:O	3:EC:61:TYR:HB3	2.11	0.50
4:Fa:25:PHE:CD2	4:Fa:26:TYR:CE1	2.98	0.50
1:A1:50:GLY:O	1:A1:131:GLN:NE2	2.43	0.50
1:A1:151:SER:C	1:A1:153:ALA:H	2.19	0.50
1:A3:149:SER:C	1:A3:151:SER:H	2.18	0.50
1:A4:181:LYS:O	1:A4:182:ALA:HB2	2.11	0.50
1:A6:109:VAL:HG22	1:A6:191:HIS:CD2	2.46	0.50
1:A7:109:VAL:HG22	1:A7:191:HIS:CD2	2.46	0.50
1:A8:121:LEU:HD13	1:A8:121:LEU:C	2.36	0.50
1:A9:108:PRO:HA	1:A9:161:THR:HG21	1.92	0.50
1:A9:210:ARG:HD2	3:Da:14:PHE:CZ	2.46	0.50
1:AB:150:ARG:HE	1:AB:150:ARG:H	1.59	0.50
1:AB:210:ARG:HD2	3:DB:14:PHE:CZ	2.46	0.50
1:AC:150:ARG:HE	1:AC:150:ARG:H	1.59	0.50
1:AD:48:LEU:HD23	1:AD:198:THR:OG1	2.12	0.50
1:AE:40:VAL:HG22	1:AE:211:TYR:CE1	2.46	0.50
1:AG:48:LEU:HD23	1:AG:198:THR:OG1	2.12	0.50
1:AG:106:TRP:O	1:AG:139:SER:HB2	2.11	0.50
1:AG:109:VAL:HG22	1:AG:191:HIS:CD2	2.46	0.50
1:AL:121:LEU:HD13	1:AL:121:LEU:C	2.36	0.50
1:AM:48:LEU:HD23	1:AM:198:THR:OG1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:109:VAL:HG22	1:AM:191:HIS:CD2	2.46	0.50
1:AN:110:GLY:H	1:AO:242:ASN:HB2	1.75	0.50
1:AO:149:SER:C	1:AO:151:SER:H	2.18	0.50
1:AO:171:TYR:N	1:AO:185:ASN:OD1	2.45	0.50
1:AQ:48:LEU:HD23	1:AQ:198:THR:OG1	2.12	0.50
1:AR:210:ARG:HD2	3:DR:14:PHE:CZ	2.46	0.50
1:AS:50:GLY:O	1:AS:131:GLN:NE2	2.43	0.50
1:AS:108:PRO:HA	1:AS:161:THR:HG21	1.92	0.50
1:AT:22:VAL:C	1:AT:24:MET:H	2.18	0.50
1:AT:43:LEU:N	1:AT:43:LEU:CD2	2.74	0.50
1:AT:121:LEU:HD13	1:AT:121:LEU:C	2.36	0.50
1:AT:150:ARG:H	1:AT:150:ARG:HE	1.60	0.50
1:AU:107:PHE:HE1	1:AU:196:LEU:HB2	1.76	0.50
1:AU:121:LEU:HD13	1:AU:121:LEU:C	2.36	0.50
1:AU:150:ARG:H	1:AU:150:ARG:HE	1.59	0.50
1:AV:121:LEU:HD13	1:AV:121:LEU:C	2.36	0.50
1:AW:109:VAL:HG22	1:AW:191:HIS:CD2	2.46	0.50
1:AZ:19:LEU:HD12	2:CZ:48:SER:HB2	1.93	0.50
1:AZ:109:VAL:HG22	1:AZ:191:HIS:CD2	2.46	0.50
1:Aa:181:LYS:O	1:Aa:182:ALA:HB2	2.11	0.50
1:Ab:22:VAL:C	1:Ab:24:MET:H	2.18	0.50
1:Ac:107:PHE:HE1	1:Ac:196:LEU:HB2	1.76	0.50
1:Ac:210:ARG:HD2	3:Dg:14:PHE:CZ	2.46	0.50
1:Af:113:THR:O	1:Af:114:LYS:C	2.55	0.50
1:Af:121:LEU:CD2	1:Ag:206:GLY:HA3	2.39	0.50
1:Af:181:LYS:O	1:Af:182:ALA:HB2	2.11	0.50
1:Ai:151:SER:C	1:Ai:153:ALA:H	2.19	0.50
1:Ak:48:LEU:HD23	1:Ak:198:THR:OG1	2.12	0.50
1:Ak:106:TRP:O	1:Ak:139:SER:HB2	2.11	0.50
1:Ak:113:THR:O	1:Ak:114:LYS:C	2.54	0.50
1:Al:121:LEU:HD13	1:Al:121:LEU:C	2.36	0.50
1:Am:107:PHE:HE1	1:Am:196:LEU:HB2	1.76	0.50
1:An:181:LYS:O	1:An:182:ALA:HB2	2.11	0.50
1:Ao:107:PHE:HE1	1:Ao:196:LEU:HB2	1.76	0.50
1:Ao:210:ARG:HD2	3:DS:14:PHE:CZ	2.46	0.50
1:BB:106:TRP:O	1:BB:139:SER:HB2	2.11	0.50
1:BD:106:TRP:O	1:BD:139:SER:HB2	2.11	0.50
1:BD:113:THR:O	1:BD:114:LYS:C	2.55	0.50
1:BE:210:ARG:HD2	3:EA:14:PHE:CZ	2.46	0.50
1:BF:48:LEU:HD23	1:BF:198:THR:OG1	2.12	0.50
1:BF:150:ARG:HE	1:BF:150:ARG:H	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:107:PHE:HE1	1:BG:196:LEU:HB2	1.76	0.50
1:BG:121:LEU:HD13	1:BG:121:LEU:C	2.36	0.50
1:BG:239:PHE:CD1	3:EC:170:TYR:CD2	2.96	0.50
1:BH:150:ARG:H	1:BH:150:ARG:HE	1.60	0.50
1:BH:151:SER:C	1:BH:153:ALA:H	2.19	0.50
2:C4:52:THR:OG1	2:Cu:57:THR:HB	2.11	0.50
2:C5:124:LEU:HD12	2:C5:163:LEU:CD1	2.40	0.50
2:C7:48:SER:O	3:D8:159:PRO:HB2	2.12	0.50
2:C7:140:LEU:HD22	2:C7:190:ASN:OD1	2.12	0.50
2:CB:135:THR:HB	2:CB:139:ALA:CA	2.41	0.50
2:CD:124:LEU:HD12	2:CD:163:LEU:CD1	2.40	0.50
2:CH:80:ILE:HG23	2:CH:82:PRO:HD3	1.91	0.50
2:CI:80:ILE:HD11	2:CI:132:TYR:OH	2.11	0.50
2:CL:104:VAL:HG22	2:CL:222:VAL:HG13	1.92	0.50
2:CM:16:THR:HA	2:CM:24:ILE:O	2.11	0.50
2:CP:124:LEU:HD12	2:CP:163:LEU:CD1	2.40	0.50
2:CW:115:ASN:HD22	3:DJ:190:ALA:C	2.17	0.50
2:CZ:80:ILE:HD11	2:CZ:132:TYR:OH	2.11	0.50
2:Ca:104:VAL:HG22	2:Ca:222:VAL:HG13	1.93	0.50
2:Ca:153:GLN:HA	3:Da:53:PHE:HB2	1.94	0.50
2:Cb:48:SER:O	3:Dc:159:PRO:HB2	2.12	0.50
2:Cd:226:LEU:CD2	3:D9:126:PRO:HG2	2.36	0.50
2:Cg:186:LEU:O	2:Cg:186:LEU:HD23	2.11	0.50
2:Ch:80:ILE:HD11	2:Ch:132:TYR:OH	2.11	0.50
2:Ci:163:LEU:HD21	2:Ci:169:SER:C	2.36	0.50
2:Ck:153:GLN:HA	3:Dk:53:PHE:HB2	1.94	0.50
2:Cl:16:THR:HA	2:Cl:24:ILE:O	2.11	0.50
2:Cl:115:ASN:HD22	3:D8:190:ALA:C	2.17	0.50
2:Co:16:THR:HA	2:Co:24:ILE:O	2.11	0.50
2:Cs:115:ASN:HD22	3:EA:190:ALA:C	2.17	0.50
2:Cs:124:LEU:HD12	2:Cs:163:LEU:CD1	2.40	0.50
2:Cu:49:ASP:CB	3:EC:161:SER:HB3	2.39	0.50
2:Cu:153:GLN:HA	3:EB:53:PHE:HB2	1.93	0.50
2:Cx:135:THR:HB	2:Cx:139:ALA:CA	2.41	0.50
3:D1:102:GLY:HA3	3:D1:214:PHE:HA	1.93	0.50
3:D3:42:ASN:HD22	3:D3:44:ILE:N	2.07	0.50
3:D9:19:PRO:HG3	4:F9:17:ASN:ND2	2.26	0.50
3:DA:19:PRO:HG3	4:FA:17:ASN:ND2	2.26	0.50
3:DC:1:ALA:HB1	3:DE:20:ASP:OD2	2.12	0.50
3:DL:75:GLN:HG3	3:DL:184:GLN:HG2	1.93	0.50
3:DN:19:PRO:HG3	4:FN:17:ASN:ND2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DN:102:GLY:HA3	3:DN:214:PHE:HA	1.93	0.50
3:DQ:19:PRO:HG3	4:FQ:17:ASN:ND2	2.26	0.50
3:De:31:VAL:HB	4:Fe:34:ILE:O	2.10	0.50
3:Dg:31:VAL:HB	4:Fg:34:ILE:O	2.10	0.50
3:Dg:60:PRO:O	3:Dg:61:TYR:HB3	2.11	0.50
3:Dh:31:VAL:HG12	4:Fh:35:ASP:HA	1.92	0.50
3:Dj:56:ILE:HG13	3:Dj:74:PHE:HE1	1.72	0.50
3:Dk:1:ALA:HB1	3:Dm:20:ASP:OD2	2.12	0.50
3:DI:42:ASN:HD22	3:DI:44:ILE:N	2.08	0.50
3:ED:60:PRO:O	3:ED:61:TYR:HB3	2.11	0.50
1:A1:121:LEU:HD13	1:A1:121:LEU:C	2.36	0.50
1:A2:40:VAL:HG22	1:A2:211:TYR:CE1	2.46	0.50
1:A2:210:ARG:HD2	3:D3:14:PHE:CZ	2.46	0.50
1:A5:121:LEU:HD13	1:A5:121:LEU:C	2.36	0.50
1:A5:171:TYR:N	1:A5:185:ASN:OD1	2.45	0.50
1:A5:210:ARG:HD2	3:D6:14:PHE:CZ	2.46	0.50
1:A8:30:VAL:CG1	1:A8:218:MET:HE3	2.34	0.50
1:A9:19:LEU:HD12	2:C9:48:SER:HB2	1.93	0.50
1:A9:170:PHE:CD2	1:A9:222:ARG:CZ	2.87	0.50
1:AC:19:LEU:HD12	2:CB:48:SER:HB2	1.93	0.50
1:AC:107:PHE:HE1	1:AC:196:LEU:HB2	1.76	0.50
1:AC:108:PRO:HA	1:AC:161:THR:HG21	1.92	0.50
1:AC:170:PHE:CD2	1:AC:222:ARG:CZ	2.87	0.50
1:AD:86:ILE:CD1	1:AD:86:ILE:H	2.23	0.50
1:AE:50:GLY:O	1:AE:131:GLN:NE2	2.43	0.50
1:AF:19:LEU:HD12	2:CJ:48:SER:HB2	1.93	0.50
1:AF:181:LYS:O	1:AF:182:ALA:HB2	2.11	0.50
1:AG:22:VAL:C	1:AG:24:MET:H	2.18	0.50
1:AG:113:THR:O	1:AG:114:LYS:C	2.55	0.50
1:AH:181:LYS:O	1:AH:182:ALA:HB2	2.11	0.50
1:AL:108:PRO:HA	1:AL:161:THR:HG21	1.92	0.50
1:AL:239:PHE:CD1	3:DL:170:TYR:CD2	2.96	0.50
1:AO:113:THR:O	1:AO:114:LYS:C	2.55	0.50
1:AP:150:ARG:HE	1:AP:150:ARG:H	1.59	0.50
1:AR:22:VAL:C	1:AR:24:MET:H	2.18	0.50
1:AU:48:LEU:HD23	1:AU:198:THR:OG1	2.11	0.50
1:AV:181:LYS:O	1:AV:182:ALA:HB2	2.11	0.50
1:AW:48:LEU:HD23	1:AW:198:THR:OG1	2.12	0.50
1:AW:121:LEU:HD13	1:AW:121:LEU:C	2.36	0.50
1:AX:48:LEU:HD23	1:AX:198:THR:OG1	2.12	0.50
1:AX:150:ARG:HE	1:AX:150:ARG:H	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:30:VAL:CG1	1:AY:218:MET:HE3	2.34	0.50
1:Ab:113:THR:O	1:Ab:114:LYS:C	2.54	0.50
1:Ad:22:VAL:C	1:Ad:24:MET:H	2.18	0.50
1:Ad:113:THR:O	1:Ad:114:LYS:C	2.55	0.50
1:Af:109:VAL:HG22	1:Af:191:HIS:CD2	2.46	0.50
1:Ag:19:LEU:HD12	2:Ch:48:SER:HB2	1.93	0.50
1:Aj:48:LEU:HD23	1:Aj:198:THR:OG1	2.12	0.50
1:Aj:109:VAL:HG22	1:Aj:191:HIS:CD2	2.46	0.50
1:Aj:150:ARG:H	1:Aj:150:ARG:HE	1.60	0.50
1:Aj:170:PHE:CD2	1:Aj:222:ARG:CZ	2.87	0.50
1:Am:150:ARG:HE	1:Am:150:ARG:H	1.60	0.50
1:An:48:LEU:HD23	1:An:198:THR:OG1	2.12	0.50
1:BA:239:PHE:CD1	3:Dp:170:TYR:CD2	2.96	0.50
1:BC:19:LEU:HD12	2:Cq:48:SER:HB2	1.93	0.50
1:BE:48:LEU:HD23	1:BE:198:THR:OG1	2.12	0.50
1:BE:181:LYS:O	1:BE:182:ALA:HB2	2.11	0.50
1:BG:50:GLY:O	1:BG:131:GLN:NE2	2.43	0.50
1:BG:181:LYS:O	1:BG:182:ALA:HB2	2.11	0.50
1:BI:121:LEU:HD13	1:BI:121:LEU:C	2.36	0.50
2:C2:140:LEU:HD22	2:C2:190:ASN:OD1	2.12	0.50
2:CE:16:THR:HA	2:CE:24:ILE:O	2.11	0.50
2:CE:104:VAL:HG22	2:CE:222:VAL:HG13	1.93	0.50
2:CF:104:VAL:HG22	2:CF:222:VAL:HG13	1.92	0.50
2:CG:186:LEU:O	2:CG:186:LEU:HD23	2.11	0.50
2:CH:24:ILE:HG23	3:Ds:145:VAL:HB	1.92	0.50
2:CI:24:ILE:HG23	3:DX:145:VAL:HB	1.92	0.50
2:CI:52:THR:OG1	2:CW:57:THR:HB	2.11	0.50
2:CK:52:THR:OG1	2:Ca:57:THR:HB	2.11	0.50
2:CK:163:LEU:HD21	2:CK:169:SER:C	2.36	0.50
2:CL:186:LEU:O	2:CL:186:LEU:HD23	2.11	0.50
2:CO:152:TYR:CB	2:CO:197:LEU:HD22	2.40	0.50
2:CP:104:VAL:HG22	2:CP:222:VAL:HG13	1.93	0.50
2:CR:186:LEU:O	2:CR:186:LEU:HD23	2.11	0.50
2:CS:163:LEU:HD21	2:CS:169:SER:C	2.36	0.50
2:CY:16:THR:HA	2:CY:24:ILE:O	2.11	0.50
2:Ca:16:THR:HA	2:Ca:24:ILE:O	2.11	0.50
2:Cc:186:LEU:O	2:Cc:186:LEU:HD23	2.11	0.50
2:Ce:48:SER:O	3:Df:159:PRO:HB2	2.12	0.50
2:Ce:209:VAL:N	2:Ce:210:PRO:CD	2.68	0.50
2:Cg:48:SER:O	3:Dh:159:PRO:HB2	2.12	0.50
2:Cg:115:ASN:CA	3:D3:119:LYS:HZ3	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:16:THR:HA	2:Ch:24:ILE:O	2.11	0.50
2:Cm:24:ILE:HG23	3:DD:145:VAL:HB	1.92	0.50
2:Cm:104:VAL:HG22	2:Cm:222:VAL:HG13	1.92	0.50
2:Cm:153:GLN:HA	3:Dm:53:PHE:HB2	1.94	0.50
2:Cn:153:GLN:HA	3:Dn:53:PHE:HB2	1.94	0.50
2:Co:24:ILE:HG23	3:DR:145:VAL:HB	1.92	0.50
2:Co:125:CYS:HB2	2:Co:199:LEU:HD11	1.94	0.50
2:Cp:16:THR:HA	2:Cp:24:ILE:O	2.11	0.50
2:Cq:49:ASP:CB	3:Dr:161:SER:HB3	2.40	0.50
2:Cq:104:VAL:HG22	2:Cq:222:VAL:HG13	1.93	0.50
2:Cq:115:ASN:CA	3:DY:119:LYS:HZ3	2.25	0.50
2:Cq:153:GLN:HA	3:Dq:53:PHE:HB2	1.94	0.50
2:Cq:186:LEU:O	2:Cq:186:LEU:HD23	2.11	0.50
2:Cr:87:LYS:HG3	2:Cr:142:TRP:CD2	2.45	0.50
2:Ct:163:LEU:HD21	2:Ct:169:SER:C	2.36	0.50
2:Cu:104:VAL:HG22	2:Cu:222:VAL:HG13	1.92	0.50
2:Cx:16:THR:HA	2:Cx:24:ILE:O	2.11	0.50
2:Cx:104:VAL:HG22	2:Cx:222:VAL:HG13	1.93	0.50
3:DD:3:ILE:HG22	3:DD:4:ARG:N	2.27	0.50
3:DF:56:ILE:N	3:DF:56:ILE:CD1	2.75	0.50
3:DJ:60:PRO:O	3:DJ:61:TYR:HB3	2.11	0.50
3:DM:19:PRO:HG3	4:FM:17:ASN:ND2	2.26	0.50
3:DT:42:ASN:HD22	3:DT:44:ILE:N	2.08	0.50
3:Di:31:VAL:HG12	4:Fi:35:ASP:HA	1.92	0.50
3:Di:60:PRO:O	3:Di:61:TYR:HB3	2.11	0.50
3:Dl:169:VAL:O	3:Dl:169:VAL:HG12	2.09	0.50
3:Dn:60:PRO:O	3:Dn:61:TYR:HB3	2.11	0.50
3:Dp:1:ALA:HB1	3:Dr:20:ASP:OD2	2.12	0.50
3:Dp:60:PRO:O	3:Dp:61:TYR:HB3	2.11	0.50
3:EE:102:GLY:HA3	3:EE:214:PHE:HA	1.93	0.50
1:A0:50:GLY:O	1:A0:131:GLN:NE2	2.43	0.50
1:A0:86:ILE:CD1	1:A0:86:ILE:H	2.23	0.50
1:A2:22:VAL:C	1:A2:24:MET:H	2.18	0.50
1:A4:103:TRP:HB2	1:A4:198:THR:HG22	1.89	0.50
1:A4:107:PHE:HE1	1:A4:196:LEU:HB2	1.76	0.50
1:A4:157:SER:CB	3:D5:24:PRO:HA	2.36	0.50
1:A7:210:ARG:HD2	3:D8:14:PHE:CZ	2.46	0.50
1:A8:210:ARG:HD2	3:D9:14:PHE:CZ	2.46	0.50
1:A8:239:PHE:CD1	3:D9:170:TYR:CD2	2.96	0.50
1:AA:48:LEU:HD23	1:AA:198:THR:OG1	2.12	0.50
1:AB:110:GLY:H	1:AC:242:ASN:HB2	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:121:LEU:HD13	1:AB:121:LEU:C	2.36	0.50
1:AH:101:PHE:CD2	1:AH:143:VAL:HG11	2.44	0.50
1:AI:48:LEU:HD23	1:AI:198:THR:OG1	2.11	0.50
1:AI:101:PHE:CD2	1:AI:143:VAL:HG11	2.44	0.50
1:AJ:48:LEU:HD23	1:AJ:198:THR:OG1	2.12	0.50
1:AK:107:PHE:HE1	1:AK:196:LEU:HB2	1.76	0.50
1:AK:113:THR:O	1:AK:114:LYS:C	2.55	0.50
1:AK:121:LEU:CD2	1:AL:206:GLY:HA3	2.39	0.50
1:AL:113:THR:O	1:AL:114:LYS:C	2.55	0.50
1:AN:210:ARG:HD2	3:DN:14:PHE:CZ	2.46	0.50
1:AO:30:VAL:CG1	1:AO:218:MET:HE3	2.34	0.50
1:AP:50:GLY:O	1:AP:131:GLN:NE2	2.43	0.50
1:AQ:106:TRP:O	1:AQ:139:SER:HB2	2.11	0.50
1:AQ:151:SER:C	1:AQ:153:ALA:H	2.19	0.50
1:AS:150:ARG:H	1:AS:150:ARG:HE	1.60	0.50
1:AT:106:TRP:O	1:AT:139:SER:HB2	2.11	0.50
1:AT:113:THR:O	1:AT:114:LYS:C	2.55	0.50
1:AU:113:THR:O	1:AU:114:LYS:C	2.55	0.50
1:AX:210:ARG:HD2	3:DY:14:PHE:CZ	2.46	0.50
1:AY:106:TRP:O	1:AY:139:SER:HB2	2.11	0.50
1:Aa:113:THR:O	1:Aa:114:LYS:C	2.55	0.50
1:Ab:109:VAL:HG22	1:Ab:191:HIS:CD2	2.46	0.50
1:Ac:109:VAL:HG22	1:Ac:191:HIS:CD2	2.46	0.50
1:Ad:86:ILE:CD1	1:Ad:86:ILE:H	2.23	0.50
1:Ae:19:LEU:HD12	2:Cf:48:SER:HB2	1.93	0.50
1:Ae:181:LYS:O	1:Ae:182:ALA:HB2	2.11	0.50
1:Af:106:TRP:O	1:Af:139:SER:HB2	2.11	0.50
1:Ag:50:GLY:O	1:Ag:131:GLN:NE2	2.43	0.50
1:Ah:110:GLY:H	1:Ai:242:ASN:HB2	1.75	0.50
1:Ah:150:ARG:H	1:Ah:150:ARG:HE	1.60	0.50
1:Ai:40:VAL:HG22	1:Ai:211:TYR:CE1	2.46	0.50
1:Ai:171:TYR:N	1:Ai:185:ASN:OD1	2.45	0.50
1:Ak:40:VAL:HG22	1:Ak:211:TYR:CE1	2.46	0.50
1:Am:110:GLY:H	1:BA:242:ASN:HB2	1.75	0.50
1:An:108:PRO:HA	1:An:161:THR:HG21	1.92	0.50
1:An:109:VAL:HG22	1:An:191:HIS:CD2	2.46	0.50
1:An:210:ARG:HD2	3:Db:14:PHE:CZ	2.46	0.50
1:An:238:LYS:HA	3:Db:171:SER:O	2.12	0.50
1:Ao:50:GLY:O	1:Ao:131:GLN:NE2	2.43	0.50
1:BB:48:LEU:HD23	1:BB:198:THR:OG1	2.12	0.50
1:BB:210:ARG:HD2	3:Dq:14:PHE:CZ	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:113:THR:O	1:BF:114:LYS:C	2.55	0.50
1:BI:19:LEU:HD12	2:Cw:48:SER:HB2	1.93	0.50
1:BI:106:TRP:O	1:BI:139:SER:HB2	2.11	0.50
2:C1:80:ILE:HD11	2:C1:132:TYR:OH	2.11	0.50
2:C2:115:ASN:HD22	3:Dh:190:ALA:C	2.17	0.50
2:C3:49:ASP:CB	3:DZ:161:SER:HB3	2.40	0.50
2:C7:115:ASN:CA	3:Dm:119:LYS:HZ3	2.25	0.50
2:C8:110:VAL:CG1	2:C8:213:MET:HE3	2.42	0.50
2:CA:140:LEU:HD22	2:CA:190:ASN:OD1	2.12	0.50
2:CA:163:LEU:HD21	2:CA:169:SER:C	2.36	0.50
2:CC:16:THR:HA	2:CC:24:ILE:O	2.11	0.50
2:CC:80:ILE:HD11	2:CC:132:TYR:OH	2.11	0.50
2:CD:140:LEU:HD22	2:CD:190:ASN:OD1	2.12	0.50
2:CE:115:ASN:CA	3:DF:119:LYS:HZ3	2.25	0.50
2:CG:140:LEU:HD22	2:CG:190:ASN:OD1	2.12	0.50
2:CH:140:LEU:HD22	2:CH:190:ASN:OD1	2.12	0.50
2:CH:163:LEU:HD21	2:CH:169:SER:C	2.36	0.50
2:CI:115:ASN:HD22	3:DX:190:ALA:C	2.17	0.50
2:CL:52:THR:OG1	2:Cj:57:THR:HB	2.11	0.50
2:CO:163:LEU:HD21	2:CO:169:SER:C	2.36	0.50
2:CQ:125:CYS:HB2	2:CQ:199:LEU:HD11	1.94	0.50
2:CU:16:THR:HA	2:CU:24:ILE:O	2.11	0.50
2:CV:124:LEU:HD12	2:CV:163:LEU:HD12	1.91	0.50
2:CW:153:GLN:HA	3:DW:53:PHE:HB2	1.94	0.50
2:CX:163:LEU:HD21	2:CX:169:SER:C	2.36	0.50
2:CZ:52:THR:OG1	2:Cp:57:THR:HB	2.11	0.50
2:Ca:140:LEU:HD22	2:Ca:190:ASN:OD1	2.12	0.50
2:Cb:163:LEU:HD21	2:Cb:169:SER:C	2.36	0.50
2:Cc:153:GLN:HA	3:Dc:53:PHE:HB2	1.94	0.50
2:Cd:140:LEU:HD22	2:Cd:190:ASN:OD1	2.12	0.50
2:Ce:115:ASN:CA	3:DC:119:LYS:HZ3	2.24	0.50
2:Cf:115:ASN:CA	3:DV:119:LYS:HZ3	2.24	0.50
2:Cg:16:THR:HA	2:Cg:24:ILE:O	2.11	0.50
2:Cg:153:GLN:HA	3:Dg:53:PHE:HB2	1.93	0.50
2:Ci:152:TYR:CB	2:Ci:197:LEU:HD22	2.40	0.50
2:Ci:153:GLN:HA	3:Di:53:PHE:HB2	1.94	0.50
2:Ci:186:LEU:O	2:Ci:186:LEU:HD23	2.11	0.50
2:Cj:16:THR:HA	2:Cj:24:ILE:O	2.11	0.50
2:Cj:140:LEU:HD22	2:Cj:190:ASN:OD1	2.12	0.50
2:Cm:140:LEU:HD22	2:Cm:190:ASN:OD1	2.12	0.50
2:Cn:140:LEU:HD22	2:Cn:190:ASN:OD1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cp:115:ASN:HD22	3:D0:190:ALA:C	2.17	0.50
2:Cp:153:GLN:HA	3:Dp:53:PHE:HB2	1.94	0.50
2:Cp:163:LEU:HD21	2:Cp:169:SER:C	2.36	0.50
2:Cq:140:LEU:HD22	2:Cq:190:ASN:OD1	2.12	0.50
2:Cr:48:SER:O	3:Ds:159:PRO:HB2	2.12	0.50
2:Cs:152:TYR:CD1	2:Cs:152:TYR:C	2.88	0.50
2:Ct:49:ASP:CB	3:EB:161:SER:HB3	2.40	0.50
2:Cv:48:SER:O	3:ED:159:PRO:HB2	2.12	0.50
2:Cw:153:GLN:HA	3:ED:53:PHE:HB2	1.93	0.50
2:Cx:115:ASN:HD22	3:Do:190:ALA:C	2.17	0.50
3:D0:3:ILE:HG22	3:D0:4:ARG:N	2.27	0.50
3:D0:102:GLY:HA3	3:D0:214:PHE:HA	1.93	0.50
3:D2:1:ALA:HB1	3:DZ:20:ASP:OD2	2.12	0.50
3:D3:19:PRO:HG3	4:F3:17:ASN:ND2	2.26	0.50
3:D9:102:GLY:HA3	3:D9:214:PHE:HA	1.93	0.50
3:DA:3:ILE:HG22	3:DA:4:ARG:N	2.27	0.50
3:DB:1:ALA:HB1	3:DD:20:ASP:OD2	2.12	0.50
3:DE:3:ILE:HG22	3:DE:4:ARG:N	2.27	0.50
3:DH:1:ALA:HB1	3:DJ:20:ASP:OD2	2.12	0.50
3:DH:3:ILE:HG22	3:DH:4:ARG:N	2.27	0.50
3:DH:56:ILE:N	3:DH:56:ILE:CD1	2.75	0.50
3:DH:60:PRO:O	3:DH:61:TYR:HB3	2.11	0.50
3:DI:56:ILE:N	3:DI:56:ILE:CD1	2.75	0.50
3:DK:56:ILE:N	3:DK:56:ILE:CD1	2.75	0.50
3:DN:31:VAL:HG12	4:FN:35:ASP:HA	1.92	0.50
3:DT:135:ARG:O	3:DT:138:ALA:N	2.45	0.50
3:DU:1:ALA:HB1	3:DW:20:ASP:OD2	2.12	0.50
3:DU:3:ILE:HG22	3:DU:4:ARG:N	2.27	0.50
3:DV:56:ILE:N	3:DV:56:ILE:CD1	2.75	0.50
3:DW:56:ILE:N	3:DW:56:ILE:CD1	2.75	0.50
3:DY:102:GLY:HA3	3:DY:214:PHE:HA	1.93	0.50
3:DZ:42:ASN:HD22	3:DZ:44:ILE:N	2.08	0.50
3:De:20:ASP:OD2	3:Dh:1:ALA:HB1	2.12	0.50
3:Df:3:ILE:HG22	3:Df:4:ARG:N	2.27	0.50
3:Df:20:ASP:OD2	3:Di:1:ALA:HB1	2.12	0.50
3:Dh:135:ARG:O	3:Dh:138:ALA:N	2.45	0.50
3:Di:19:PRO:HG3	4:Fi:17:ASN:ND2	2.26	0.50
3:Dk:56:ILE:N	3:Dk:56:ILE:CD1	2.75	0.50
3:Dk:135:ARG:O	3:Dk:138:ALA:N	2.45	0.50
3:DI:102:GLY:HA3	3:DI:214:PHE:HA	1.93	0.50
3:Dp:75:GLN:HG3	3:Dp:184:GLN:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dq:1:ALA:HB1	3:Ds:20:ASP:OD2	2.12	0.50
3:EC:1:ALA:HB1	3:EE:20:ASP:OD2	2.12	0.50
3:EE:56:ILE:HG13	3:EE:74:PHE:HE1	1.72	0.50
1:A0:109:VAL:HG22	1:A0:191:HIS:CD2	2.46	0.50
1:A0:121:LEU:C	1:A0:121:LEU:HD13	2.36	0.50
1:A0:151:SER:C	1:A0:153:ALA:H	2.19	0.50
1:A2:48:LEU:HD23	1:A2:198:THR:OG1	2.11	0.50
1:A6:48:LEU:HD23	1:A6:198:THR:OG1	2.12	0.50
1:AC:113:THR:O	1:AC:114:LYS:C	2.55	0.50
1:AC:210:ARG:HD2	3:DC:14:PHE:CZ	2.46	0.50
1:AC:239:PHE:CD1	3:DC:170:TYR:CD2	2.96	0.50
1:AD:106:TRP:O	1:AD:139:SER:HB2	2.11	0.50
1:AD:121:LEU:C	1:AD:121:LEU:HD13	2.36	0.50
1:AE:109:VAL:HG22	1:AE:191:HIS:CD2	2.46	0.50
1:AF:150:ARG:HE	1:AF:150:ARG:H	1.60	0.50
1:AG:210:ARG:HD2	3:DG:14:PHE:CZ	2.46	0.50
1:AH:104:VAL:HG22	1:AH:197:LEU:HD21	1.90	0.50
1:AH:151:SER:C	1:AH:153:ALA:H	2.19	0.50
1:AI:113:THR:O	1:AI:114:LYS:C	2.55	0.50
1:AK:121:LEU:HD13	1:AK:121:LEU:C	2.36	0.50
1:AM:86:ILE:HD12	1:AM:86:ILE:H	1.72	0.50
1:AN:150:ARG:HE	1:AN:150:ARG:H	1.60	0.50
1:AO:150:ARG:HE	1:AO:150:ARG:H	1.60	0.50
1:AQ:107:PHE:HE1	1:AQ:196:LEU:HB2	1.76	0.50
1:AQ:238:LYS:HA	3:DQ:171:SER:O	2.12	0.50
1:AR:50:GLY:O	1:AR:131:GLN:NE2	2.43	0.50
1:AS:40:VAL:HG22	1:AS:211:TYR:CE1	2.46	0.50
1:AT:128:VAL:CG1	1:AU:89:LYS:HG2	2.42	0.50
1:AW:210:ARG:HD2	3:DX:14:PHE:CZ	2.46	0.50
1:AY:37:PHE:HA	1:AY:211:TYR:O	2.10	0.50
1:AZ:181:LYS:O	1:AZ:182:ALA:HB2	2.11	0.50
1:Ab:107:PHE:HE1	1:Ab:196:LEU:HB2	1.76	0.50
1:Ab:238:LYS:HA	3:Dd:171:SER:O	2.12	0.50
1:Ac:40:VAL:HG22	1:Ac:211:TYR:HE1	1.77	0.50
1:Ac:121:LEU:HD13	1:Ac:121:LEU:C	2.36	0.50
1:Ac:238:LYS:HA	3:De:171:SER:O	2.12	0.50
1:Af:48:LEU:HD23	1:Af:198:THR:OG1	2.12	0.50
1:Af:151:SER:C	1:Af:153:ALA:H	2.19	0.50
1:Ag:40:VAL:HG22	1:Ag:211:TYR:HE1	1.77	0.50
1:Ag:150:ARG:HE	1:Ag:150:ARG:H	1.59	0.50
1:Ah:128:VAL:CG1	1:Ai:89:LYS:HG2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:181:LYS:O	1:Ah:182:ALA:HB2	2.11	0.50
1:Ai:108:PRO:HA	1:Ai:161:THR:HG21	1.92	0.50
1:Ai:121:LEU:HD13	1:Ai:121:LEU:C	2.36	0.50
1:Ak:210:ARG:HD2	3:Dm:14:PHE:CZ	2.46	0.50
1:Ak:238:LYS:HA	3:Dm:171:SER:O	2.12	0.50
1:Al:22:VAL:C	1:Al:24:MET:H	2.18	0.50
1:Am:109:VAL:HG22	1:Am:191:HIS:CD2	2.46	0.50
1:Ao:150:ARG:HE	1:Ao:150:ARG:H	1.60	0.50
1:BA:107:PHE:HE1	1:BA:196:LEU:HB2	1.76	0.50
1:BB:109:VAL:HG22	1:BB:191:HIS:CD2	2.46	0.50
1:BB:113:THR:O	1:BB:114:LYS:C	2.55	0.50
1:BC:210:ARG:HD2	3:Dr:14:PHE:CZ	2.46	0.50
1:BF:181:LYS:O	1:BF:182:ALA:HB2	2.11	0.50
1:BH:30:VAL:CG1	1:BH:218:MET:HE3	2.34	0.50
1:BH:109:VAL:HG22	1:BH:191:HIS:CD2	2.46	0.50
2:C1:135:THR:HB	2:C1:139:ALA:CA	2.41	0.50
2:C2:16:THR:HA	2:C2:24:ILE:O	2.11	0.50
2:C3:48:SER:O	3:DZ:159:PRO:HB2	2.12	0.50
2:C5:125:CYS:HB2	2:C5:199:LEU:HD11	1.94	0.50
2:C8:48:SER:O	3:D4:159:PRO:HB2	2.12	0.50
2:CA:16:THR:HA	2:CA:24:ILE:O	2.11	0.50
2:CA:115:ASN:CA	3:DW:119:LYS:HZ3	2.24	0.50
2:CB:153:GLN:HA	3:DB:53:PHE:HB2	1.94	0.50
2:CC:186:LEU:O	2:CC:186:LEU:HD23	2.11	0.50
2:CE:57:THR:HB	2:CJ:52:THR:OG1	2.11	0.50
2:CF:140:LEU:HD22	2:CF:190:ASN:OD1	2.12	0.50
2:CG:80:ILE:HD11	2:CG:132:TYR:OH	2.11	0.50
2:CG:104:VAL:HG22	2:CG:222:VAL:HG13	1.93	0.50
2:CG:135:THR:HB	2:CG:139:ALA:CA	2.41	0.50
2:CH:16:THR:HA	2:CH:24:ILE:O	2.11	0.50
2:CI:16:THR:HA	2:CI:24:ILE:O	2.11	0.50
2:CJ:110:VAL:CG1	2:CJ:213:MET:HE3	2.42	0.50
2:CL:57:THR:HB	2:Cj:52:THR:OG1	2.11	0.50
2:CL:115:ASN:CA	3:Dk:119:LYS:HZ3	2.24	0.50
2:CO:115:ASN:CA	3:DP:119:LYS:HZ3	2.25	0.50
2:CO:186:LEU:O	2:CO:186:LEU:HD23	2.11	0.50
2:CP:16:THR:HA	2:CP:24:ILE:O	2.11	0.50
2:CP:80:ILE:HD11	2:CP:132:TYR:OH	2.11	0.50
2:CP:115:ASN:CA	3:D1:119:LYS:HZ3	2.24	0.50
2:CQ:52:THR:OG1	2:Co:57:THR:HB	2.11	0.50
2:CR:48:SER:O	3:DS:159:PRO:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CS:153:GLN:HA	3:DS:53:PHE:HB2	1.93	0.50
2:CT:153:GLN:HA	3:DT:53:PHE:HB2	1.94	0.50
2:CW:24:ILE:HG23	3:DJ:145:VAL:HB	1.92	0.50
2:CW:80:ILE:HD11	2:CW:132:TYR:OH	2.11	0.50
2:CW:135:THR:HB	2:CW:139:ALA:CA	2.41	0.50
2:CX:57:THR:HB	2:Cq:52:THR:OG1	2.10	0.50
2:CX:226:LEU:CD2	3:DY:126:PRO:HG2	2.36	0.50
2:CY:48:SER:O	3:DU:159:PRO:HB2	2.12	0.50
2:CZ:163:LEU:HD21	2:CZ:169:SER:C	2.36	0.50
2:Cb:16:THR:HA	2:Cb:24:ILE:O	2.11	0.50
2:Ce:110:VAL:CG1	2:Ce:213:MET:HE3	2.42	0.50
2:Cg:135:THR:HB	2:Cg:139:ALA:CA	2.41	0.50
2:Cj:48:SER:O	3:Dk:159:PRO:HB2	2.12	0.50
2:Cj:125:CYS:HB2	2:Cj:199:LEU:HD11	1.94	0.50
2:Ck:110:VAL:CG1	2:Ck:213:MET:HE3	2.42	0.50
2:Cl:163:LEU:HD21	2:Cl:169:SER:C	2.36	0.50
2:Cn:80:ILE:HD11	2:Cn:132:TYR:OH	2.11	0.50
2:Co:80:ILE:HD11	2:Co:132:TYR:OH	2.11	0.50
2:Cp:135:THR:HB	2:Cp:139:ALA:CA	2.41	0.50
2:Cq:110:VAL:CG1	2:Cq:213:MET:HE3	2.42	0.50
2:Cr:186:LEU:O	2:Cr:186:LEU:HD23	2.11	0.50
2:Cs:135:THR:HB	2:Cs:139:ALA:CA	2.41	0.50
2:Cu:16:THR:HA	2:Cu:24:ILE:O	2.11	0.50
2:Cv:16:THR:HA	2:Cv:24:ILE:O	2.11	0.50
3:D0:20:ASP:OD2	3:D3:1:ALA:HB1	2.12	0.50
3:D5:42:ASN:HD22	3:D5:44:ILE:N	2.08	0.50
3:D5:102:GLY:HA3	3:D5:214:PHE:HA	1.93	0.50
3:D6:102:GLY:HA3	3:D6:214:PHE:HA	1.93	0.50
3:D6:135:ARG:O	3:D6:138:ALA:N	2.45	0.50
3:D9:56:ILE:N	3:D9:56:ILE:CD1	2.75	0.50
3:D9:135:ARG:O	3:D9:138:ALA:N	2.45	0.50
3:DA:56:ILE:N	3:DA:56:ILE:CD1	2.75	0.50
3:DC:75:GLN:HG3	3:DC:184:GLN:HG2	1.93	0.50
3:DG:56:ILE:N	3:DG:56:ILE:CD1	2.75	0.50
3:DI:135:ARG:O	3:DI:138:ALA:N	2.45	0.50
3:DJ:3:ILE:HG22	3:DJ:4:ARG:N	2.27	0.50
3:DK:60:PRO:O	3:DK:61:TYR:HB3	2.11	0.50
3:DK:75:GLN:HG3	3:DK:184:GLN:HG2	1.93	0.50
3:DR:1:ALA:HB1	3:DT:20:ASP:OD2	2.12	0.50
3:DR:3:ILE:HG22	3:DR:4:ARG:N	2.27	0.50
3:DS:103:SER:HB3	3:DS:159:PRO:CA	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:135:ARG:O	3:DV:138:ALA:N	2.45	0.50
3:DW:135:ARG:O	3:DW:138:ALA:N	2.45	0.50
3:DX:3:ILE:HG22	3:DX:4:ARG:N	2.27	0.50
3:DY:135:ARG:O	3:DY:138:ALA:N	2.45	0.50
3:DZ:60:PRO:O	3:DZ:61:TYR:HB3	2.11	0.50
3:Da:102:GLY:HA3	3:Da:214:PHE:HA	1.93	0.50
3:Dc:135:ARG:O	3:Dc:138:ALA:N	2.45	0.50
3:Dd:102:GLY:HA3	3:Dd:214:PHE:HA	1.93	0.50
3:De:56:ILE:HG13	3:De:74:PHE:HE1	1.72	0.50
3:De:56:ILE:N	3:De:56:ILE:CD1	2.75	0.50
3:Df:1:ALA:HB1	3:Dh:20:ASP:OD2	2.12	0.50
3:Dg:1:ALA:HB1	3:Di:20:ASP:OD2	2.12	0.50
3:Dg:102:GLY:HA3	3:Dg:214:PHE:HA	1.93	0.50
3:Dj:20:ASP:OD2	3:Dm:1:ALA:HB1	2.12	0.50
3:Dk:20:ASP:OD2	3:Dn:1:ALA:HB1	2.12	0.50
3:Dl:135:ARG:O	3:Dl:138:ALA:N	2.45	0.50
3:Do:60:PRO:O	3:Do:61:TYR:HB3	2.11	0.50
3:Dr:135:ARG:O	3:Dr:138:ALA:N	2.45	0.50
3:Ds:60:PRO:O	3:Ds:61:TYR:HB3	2.11	0.50
3:Ds:75:GLN:HG3	3:Ds:184:GLN:HG2	1.93	0.50
3:EA:75:GLN:HG3	3:EA:184:GLN:HG2	1.93	0.50
3:ED:19:PRO:HG3	4:Fw:17:ASN:ND2	2.26	0.50
3:ED:42:ASN:HD22	3:ED:44:ILE:N	2.07	0.50
1:A0:48:LEU:HD23	1:A0:198:THR:OG1	2.12	0.50
1:A0:113:THR:O	1:A0:114:LYS:C	2.54	0.50
1:A0:210:ARG:HD2	3:D1:14:PHE:CZ	2.46	0.50
1:A3:128:VAL:CG1	1:A4:89:LYS:HG2	2.42	0.50
1:A4:210:ARG:HD2	3:D5:14:PHE:CZ	2.46	0.50
1:A6:151:SER:C	1:A6:153:ALA:H	2.19	0.50
1:A7:50:GLY:O	1:A7:131:GLN:NE2	2.43	0.50
1:AA:151:SER:C	1:AA:153:ALA:H	2.19	0.50
1:AB:107:PHE:HE1	1:AB:196:LEU:HB2	1.76	0.50
1:AC:181:LYS:O	1:AC:182:ALA:HB2	2.11	0.50
1:AG:187:LEU:HD12	1:AG:190:ALA:HB2	1.94	0.50
1:AH:22:VAL:C	1:AH:24:MET:H	2.18	0.50
1:AH:79:PHE:CZ	3:DH:31:VAL:HG11	2.47	0.50
1:AH:210:ARG:HD2	3:DH:14:PHE:CZ	2.46	0.50
1:AI:79:PHE:CZ	3:DI:31:VAL:HG11	2.47	0.50
1:AI:82:LEU:HD23	1:AI:84:LEU:HD11	1.94	0.50
1:AJ:19:LEU:HD12	2:CI:48:SER:HB2	1.93	0.50
1:AK:210:ARG:HD2	3:DK:14:PHE:CZ	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:238:LYS:HA	3:DL:171:SER:O	2.12	0.50
1:AN:107:PHE:HE1	1:AN:196:LEU:HB2	1.76	0.50
1:AN:113:THR:O	1:AN:114:LYS:C	2.55	0.50
1:AN:171:TYR:N	1:AN:185:ASN:OD1	2.45	0.50
1:AO:157:SER:CB	3:DO:24:PRO:HA	2.36	0.50
1:AP:19:LEU:HD12	2:CT:48:SER:HB2	1.93	0.50
1:AS:181:LYS:O	1:AS:182:ALA:HB2	2.11	0.50
1:AT:151:SER:C	1:AT:153:ALA:H	2.19	0.50
1:AT:171:TYR:N	1:AT:185:ASN:OD1	2.45	0.50
1:AT:242:ASN:HB2	1:AX:110:GLY:H	1.75	0.50
1:AU:30:VAL:CG1	1:AU:218:MET:HE3	2.34	0.50
1:AV:79:PHE:CZ	3:DW:31:VAL:HG11	2.47	0.50
1:AV:128:VAL:CG1	1:AW:89:LYS:HG2	2.42	0.50
1:AW:19:LEU:HD12	2:CW:48:SER:HB2	1.93	0.50
1:AW:50:GLY:O	1:AW:131:GLN:NE2	2.43	0.50
1:AY:22:VAL:C	1:AY:24:MET:H	2.18	0.50
1:AY:121:LEU:HD13	1:AY:121:LEU:C	2.36	0.50
1:AY:128:VAL:CG1	1:AZ:89:LYS:HG2	2.42	0.50
1:AZ:238:LYS:HA	3:D0:171:SER:O	2.12	0.50
1:Aa:109:VAL:HG22	1:Aa:191:HIS:CD2	2.46	0.50
1:Ab:40:VAL:HG22	1:Ab:211:TYR:HE1	1.77	0.50
1:Ac:82:LEU:HD23	1:Ac:84:LEU:HD11	1.94	0.50
1:Ac:106:TRP:O	1:Ac:139:SER:HB2	2.11	0.50
1:Ac:181:LYS:O	1:Ac:182:ALA:HB2	2.11	0.50
1:Ae:48:LEU:HD23	1:Ae:198:THR:OG1	2.12	0.50
1:Ae:238:LYS:HA	3:Dg:171:SER:O	2.12	0.50
1:Af:150:ARG:HE	1:Af:150:ARG:H	1.60	0.50
1:Ah:48:LEU:HD23	1:Ah:198:THR:OG1	2.12	0.50
1:Aj:19:LEU:HD12	2:Ck:48:SER:HB2	1.93	0.50
1:Aj:181:LYS:O	1:Aj:182:ALA:HB2	2.11	0.50
1:An:106:TRP:O	1:An:139:SER:HB2	2.11	0.50
1:BA:50:GLY:O	1:BA:131:GLN:NE2	2.43	0.50
1:BB:30:VAL:CG1	1:BB:218:MET:HE3	2.34	0.50
1:BB:110:GLY:H	1:BC:242:ASN:HB2	1.75	0.50
1:BD:19:LEU:HD12	2:Cr:48:SER:HB2	1.93	0.50
1:BD:82:LEU:HD23	1:BD:84:LEU:HD11	1.94	0.50
1:BE:86:ILE:CD1	1:BE:86:ILE:H	2.23	0.50
1:BE:89:LYS:HG2	1:BI:128:VAL:CG1	2.42	0.50
1:BE:113:THR:O	1:BE:114:LYS:C	2.55	0.50
1:BF:79:PHE:CZ	3:EB:31:VAL:HG11	2.47	0.50
1:BG:128:VAL:CG1	1:BH:89:LYS:HG2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:19:LEU:HD12	2:Cv:48:SER:HB2	1.93	0.50
2:C1:110:VAL:CG1	2:C1:213:MET:HE3	2.42	0.50
2:C1:163:LEU:HD21	2:C1:169:SER:C	2.36	0.50
2:C3:125:CYS:HB2	2:C3:199:LEU:HD11	1.94	0.50
2:C3:209:VAL:N	2:C3:210:PRO:CD	2.68	0.50
2:C4:140:LEU:HD22	2:C4:190:ASN:OD1	2.12	0.50
2:C5:57:THR:HB	2:CF:52:THR:OG1	2.11	0.50
2:C8:16:THR:HA	2:C8:24:ILE:O	2.11	0.50
2:C8:80:ILE:HD11	2:C8:132:TYR:OH	2.11	0.50
2:C8:153:GLN:HA	3:D8:53:PHE:HB2	1.93	0.50
2:C9:48:SER:O	3:Da:159:PRO:HB2	2.12	0.50
2:C9:135:THR:HB	2:C9:139:ALA:CA	2.41	0.50
2:CB:140:LEU:HD22	2:CB:190:ASN:OD1	2.12	0.50
2:CC:153:GLN:HA	3:DC:53:PHE:HB2	1.94	0.50
2:CE:125:CYS:HB2	2:CE:199:LEU:HD11	1.94	0.50
2:CF:125:CYS:HB2	2:CF:199:LEU:HD11	1.94	0.50
2:CG:115:ASN:CA	3:EB:119:LYS:HZ3	2.25	0.50
2:CJ:186:LEU:O	2:CJ:186:LEU:HD23	2.11	0.50
2:CK:186:LEU:O	2:CK:186:LEU:HD23	2.11	0.50
2:CN:163:LEU:HD21	2:CN:169:SER:C	2.36	0.50
2:CO:16:THR:HA	2:CO:24:ILE:O	2.11	0.50
2:CO:125:CYS:HB2	2:CO:199:LEU:HD11	1.94	0.50
2:CO:227:PRO:HB3	3:DK:132:PRO:HB3	1.94	0.50
2:CR:115:ASN:HD22	3:EE:190:ALA:C	2.17	0.50
2:CS:140:LEU:HD22	2:CS:190:ASN:OD1	2.12	0.50
2:CV:16:THR:HA	2:CV:24:ILE:O	2.11	0.50
2:CW:48:SER:O	3:DX:159:PRO:HB2	2.12	0.50
2:CX:16:THR:HA	2:CX:24:ILE:O	2.11	0.50
2:CX:80:ILE:HD11	2:CX:132:TYR:OH	2.11	0.50
2:Ca:149:ALA:O	2:Ca:152:TYR:N	2.45	0.50
2:Ce:16:THR:HA	2:Ce:24:ILE:O	2.11	0.50
2:Cf:48:SER:O	3:Dg:159:PRO:HB2	2.12	0.50
2:Ci:16:THR:HA	2:Ci:24:ILE:O	2.11	0.50
2:Cj:80:ILE:HD11	2:Cj:132:TYR:OH	2.11	0.50
2:Ck:186:LEU:O	2:Ck:186:LEU:HD23	2.11	0.50
2:Cl:48:SER:O	3:Dm:159:PRO:HB2	2.12	0.50
2:Co:226:LEU:CD2	3:Dp:126:PRO:HG2	2.36	0.50
2:Cq:149:ALA:O	2:Cq:152:TYR:N	2.45	0.50
2:Ct:80:ILE:HD11	2:Ct:132:TYR:OH	2.11	0.50
2:Ct:186:LEU:O	2:Ct:186:LEU:HD23	2.11	0.50
2:Cu:149:ALA:O	2:Cu:152:TYR:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cv:24:ILE:HG23	3:Dd:145:VAL:HB	1.92	0.50
2:Cv:163:LEU:HD21	2:Cv:169:SER:C	2.36	0.50
2:Cw:140:LEU:HD22	2:Cw:190:ASN:OD1	2.12	0.50
3:D0:56:ILE:N	3:D0:56:ILE:CD1	2.75	0.50
3:D2:102:GLY:HA3	3:D2:214:PHE:HA	1.93	0.50
3:D3:31:VAL:HB	4:F3:34:ILE:O	2.10	0.50
3:D3:121:LEU:HD23	3:D3:121:LEU:O	2.12	0.50
3:D9:1:ALA:HB1	3:Db:20:ASP:OD2	2.12	0.50
3:D9:20:ASP:OD2	3:Dc:1:ALA:HB1	2.12	0.50
3:DB:60:PRO:O	3:DB:61:TYR:HB3	2.10	0.50
3:DC:3:ILE:HG22	3:DC:4:ARG:N	2.27	0.50
3:DC:56:ILE:N	3:DC:56:ILE:CD1	2.75	0.50
3:DF:1:ALA:HB1	3:DH:20:ASP:OD2	2.12	0.50
3:DQ:1:ALA:HB1	3:DS:20:ASP:OD2	2.12	0.50
3:DQ:56:ILE:N	3:DQ:56:ILE:CD1	2.75	0.50
3:DR:102:GLY:HA3	3:DR:214:PHE:HA	1.93	0.50
3:DS:60:PRO:O	3:DS:61:TYR:HB3	2.11	0.50
3:DT:56:ILE:N	3:DT:56:ILE:CD1	2.75	0.50
3:DV:75:GLN:HG3	3:DV:184:GLN:HG2	1.93	0.50
3:DY:56:ILE:N	3:DY:56:ILE:CD1	2.75	0.50
3:DZ:3:ILE:HG22	3:DZ:4:ARG:N	2.27	0.50
3:DZ:75:GLN:HG3	3:DZ:184:GLN:HG2	1.93	0.50
3:Da:60:PRO:O	3:Da:61:TYR:HB3	2.11	0.50
3:Dd:56:ILE:N	3:Dd:56:ILE:CD1	2.75	0.50
3:De:1:ALA:HB1	3:Dg:20:ASP:OD2	2.12	0.50
3:De:135:ARG:O	3:De:138:ALA:N	2.45	0.50
3:Df:121:LEU:HD23	3:Df:121:LEU:O	2.12	0.50
3:Df:135:ARG:O	3:Df:138:ALA:N	2.45	0.50
3:Di:3:ILE:HG22	3:Di:4:ARG:N	2.27	0.50
3:Dm:3:ILE:HG22	3:Dm:4:ARG:N	2.27	0.50
3:Dm:135:ARG:O	3:Dm:138:ALA:N	2.45	0.50
3:Do:56:ILE:N	3:Do:56:ILE:CD1	2.75	0.50
3:Dp:19:PRO:HG3	4:Fp:17:ASN:ND2	2.26	0.50
3:Dq:3:ILE:HG22	3:Dq:4:ARG:N	2.27	0.50
3:Dr:19:PRO:HG3	4:Fr:17:ASN:ND2	2.26	0.50
3:EB:3:ILE:HG22	3:EB:4:ARG:N	2.27	0.50
3:EB:135:ARG:O	3:EB:138:ALA:N	2.45	0.50
3:EC:135:ARG:O	3:EC:138:ALA:N	2.45	0.50
3:ED:135:ARG:O	3:ED:138:ALA:N	2.45	0.50
4:F1:25:PHE:O	4:F2:20:SER:HA	2.12	0.50
4:FF:20:SER:HA	4:FJ:25:PHE:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FP:25:PHE:O	4:FQ:20:SER:HA	2.12	0.50
1:A0:238:LYS:HA	3:D1:171:SER:O	2.12	0.50
1:A1:171:TYR:N	1:A1:185:ASN:OD1	2.45	0.50
1:A2:149:SER:C	1:A2:151:SER:H	2.18	0.50
1:A4:113:THR:O	1:A4:114:LYS:C	2.55	0.50
1:A6:128:VAL:CG1	1:A7:89:LYS:HG2	2.42	0.50
1:A6:170:PHE:CD2	1:A6:222:ARG:CZ	2.87	0.50
1:A7:121:LEU:HD13	1:A7:121:LEU:C	2.36	0.50
1:A7:238:LYS:HA	3:D8:171:SER:O	2.12	0.50
1:A8:121:LEU:CD2	1:A9:206:GLY:HA3	2.39	0.50
1:A9:157:SER:CB	3:Da:24:PRO:HA	2.36	0.50
1:AA:40:VAL:HG22	1:AA:211:TYR:HE1	1.77	0.50
1:AB:19:LEU:HD12	2:CA:48:SER:HB2	1.93	0.50
1:AB:79:PHE:CZ	3:DB:31:VAL:HG11	2.47	0.50
1:AC:79:PHE:CZ	3:DC:31:VAL:HG11	2.47	0.50
1:AC:128:VAL:CG1	1:AD:89:LYS:HG2	2.42	0.50
1:AD:150:ARG:HE	1:AD:150:ARG:H	1.60	0.50
1:AE:106:TRP:O	1:AE:139:SER:HB2	2.11	0.50
1:AG:238:LYS:HA	3:DG:171:SER:O	2.12	0.50
1:AH:19:LEU:HD12	2:CG:48:SER:HB2	1.93	0.50
1:AH:109:VAL:HG22	1:AH:191:HIS:CD2	2.46	0.50
1:AH:113:THR:O	1:AH:114:LYS:C	2.55	0.50
1:AJ:150:ARG:H	1:AJ:150:ARG:HE	1.59	0.50
1:AK:19:LEU:HD12	2:CO:48:SER:HB2	1.93	0.50
1:AK:171:TYR:N	1:AK:185:ASN:OD1	2.44	0.50
1:AL:48:LEU:HD23	1:AL:198:THR:OG1	2.12	0.50
1:AL:128:VAL:CG1	1:AM:89:LYS:HG2	2.42	0.50
1:AL:150:ARG:HE	1:AL:150:ARG:H	1.59	0.50
1:AM:187:LEU:HD12	1:AM:190:ALA:HB2	1.94	0.50
1:AN:40:VAL:HG22	1:AN:211:TYR:HE1	1.77	0.50
1:AN:48:LEU:HD23	1:AN:198:THR:OG1	2.12	0.50
1:AP:242:ASN:HB2	1:AS:110:GLY:H	1.75	0.50
1:AQ:40:VAL:HG22	1:AQ:211:TYR:CE1	2.46	0.50
1:AQ:109:VAL:HG22	1:AQ:191:HIS:CD2	2.46	0.50
1:AR:128:VAL:CG1	1:Ao:89:LYS:HG2	2.42	0.50
1:AS:113:THR:O	1:AS:114:LYS:C	2.55	0.50
1:AV:113:THR:O	1:AV:114:LYS:C	2.55	0.50
1:AW:128:VAL:CG1	1:AX:89:LYS:HG2	2.42	0.50
1:AW:151:SER:C	1:AW:153:ALA:H	2.19	0.50
1:AZ:48:LEU:HD23	1:AZ:198:THR:OG1	2.11	0.50
1:AZ:79:PHE:CZ	3:D0:31:VAL:HG11	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aa:238:LYS:HA	3:Dc:171:SER:O	2.12	0.50
1:Ac:128:VAL:CG1	1:Ad:89:LYS:HG2	2.42	0.50
1:Ad:210:ARG:HD2	3:Df:14:PHE:CZ	2.46	0.50
1:Af:121:LEU:C	1:Af:121:LEU:HD13	2.36	0.50
1:Ak:107:PHE:HE1	1:Ak:196:LEU:HB2	1.76	0.50
1:Ak:109:VAL:HG22	1:Ak:191:HIS:CD2	2.46	0.50
1:Al:40:VAL:HG22	1:Al:211:TYR:HE1	1.77	0.50
1:Am:79:PHE:CZ	3:Do:31:VAL:HG11	2.47	0.50
1:An:101:PHE:CD2	1:An:143:VAL:HG11	2.44	0.50
1:BA:150:ARG:HE	1:BA:150:ARG:H	1.60	0.50
1:BB:150:ARG:HE	1:BB:150:ARG:H	1.60	0.50
1:BD:79:PHE:CZ	3:Ds:31:VAL:HG11	2.47	0.50
1:BE:82:LEU:HD23	1:BE:84:LEU:HD11	1.94	0.50
1:BF:107:PHE:HE1	1:BF:196:LEU:HB2	1.76	0.50
1:BH:113:THR:O	1:BH:114:LYS:C	2.55	0.50
1:BI:79:PHE:CZ	3:EE:31:VAL:HG11	2.47	0.50
1:BI:101:PHE:CD2	1:BI:143:VAL:HG11	2.44	0.50
2:C0:80:ILE:HD11	2:C0:132:TYR:OH	2.11	0.50
2:C3:110:VAL:CG1	2:C3:213:MET:HE3	2.42	0.50
2:C4:48:SER:O	3:D5:159:PRO:HB2	2.12	0.50
2:C6:73:GLN:HA	2:C6:73:GLN:NE2	2.17	0.50
2:C8:149:ALA:O	2:C8:152:TYR:N	2.45	0.50
2:CC:48:SER:O	3:DD:159:PRO:HB2	2.12	0.50
2:CE:110:VAL:CG1	2:CE:213:MET:HE3	2.42	0.50
2:CE:149:ALA:O	2:CE:152:TYR:N	2.45	0.50
2:CF:163:LEU:HD21	2:CF:169:SER:C	2.36	0.50
2:CL:125:CYS:HB2	2:CL:199:LEU:HD11	1.94	0.50
2:CM:135:THR:HB	2:CM:139:ALA:CA	2.41	0.50
2:CM:186:LEU:O	2:CM:186:LEU:HD23	2.11	0.50
2:CO:153:GLN:HA	3:DO:53:PHE:HB2	1.94	0.50
2:CP:48:SER:O	3:DQ:159:PRO:HB2	2.12	0.50
2:CQ:226:LEU:CD2	3:DR:126:PRO:HG2	2.36	0.50
2:CR:140:LEU:HD22	2:CR:190:ASN:OD1	2.12	0.50
2:CS:48:SER:O	3:DT:159:PRO:HB2	2.12	0.50
2:CS:115:ASN:CA	3:Dc:119:LYS:HZ3	2.25	0.50
2:CS:227:PRO:HB3	3:DT:132:PRO:HB3	1.94	0.50
2:CU:48:SER:O	3:DV:159:PRO:HB2	2.12	0.50
2:CY:135:THR:HB	2:CY:139:ALA:CA	2.41	0.50
2:CZ:125:CYS:HB2	2:CZ:199:LEU:HD11	1.94	0.50
2:Ca:110:VAL:CG1	2:Ca:213:MET:HE3	2.42	0.50
2:Cb:110:VAL:CG1	2:Cb:213:MET:HE3	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cg:80:ILE:HD11	2:Cg:132:TYR:OH	2.11	0.50
2:Ch:110:VAL:CG1	2:Ch:213:MET:HE3	2.42	0.50
2:Ci:110:VAL:CG1	2:Ci:213:MET:HE3	2.42	0.50
2:Cj:163:LEU:HD21	2:Cj:169:SER:C	2.36	0.50
2:Cl:140:LEU:HD22	2:Cl:190:ASN:OD1	2.12	0.50
2:Cm:80:ILE:HD11	2:Cm:132:TYR:OH	2.11	0.50
2:Cq:125:CYS:HB2	2:Cq:199:LEU:HD11	1.94	0.50
2:Cs:140:LEU:HD22	2:Cs:190:ASN:OD1	2.12	0.50
2:Cu:115:ASN:CA	3:D5:119:LYS:HZ3	2.24	0.50
2:Cw:16:THR:HA	2:Cw:24:ILE:O	2.11	0.50
2:Cx:48:SER:O	3:EA:159:PRO:HB2	2.12	0.50
2:Cx:110:VAL:CG1	2:Cx:213:MET:HE3	2.42	0.50
2:Cx:227:PRO:HB3	3:EA:132:PRO:HB3	1.94	0.50
3:D1:3:ILE:HG22	3:D1:4:ARG:N	2.27	0.50
3:D2:135:ARG:O	3:D2:138:ALA:N	2.45	0.50
3:D3:75:GLN:HG3	3:D3:184:GLN:HG2	1.93	0.50
3:D3:102:GLY:HA3	3:D3:214:PHE:HA	1.93	0.50
3:D4:60:PRO:O	3:D4:61:TYR:HB3	2.11	0.50
3:DB:4:ARG:NH1	3:DE:20:ASP:OD2	2.45	0.50
3:DB:135:ARG:O	3:DB:138:ALA:N	2.45	0.50
3:DD:121:LEU:HD23	3:DD:121:LEU:O	2.12	0.50
3:DF:135:ARG:O	3:DF:138:ALA:N	2.45	0.50
3:DG:1:ALA:HB1	3:DI:20:ASP:OD2	2.12	0.50
3:DG:102:GLY:HA3	3:DG:214:PHE:HA	1.93	0.50
3:DL:1:ALA:HB1	3:DN:20:ASP:OD2	2.12	0.50
3:DL:56:ILE:N	3:DL:56:ILE:CD1	2.75	0.50
3:DQ:135:ARG:O	3:DQ:138:ALA:N	2.45	0.50
3:DV:31:VAL:HG12	4:FV:35:ASP:HA	1.92	0.50
3:DV:121:LEU:HD23	3:DV:121:LEU:O	2.12	0.50
3:DW:102:GLY:HA3	3:DW:214:PHE:HA	1.93	0.50
3:DX:42:ASN:HD22	3:DX:44:ILE:N	2.08	0.50
3:DZ:102:GLY:HA3	3:DZ:214:PHE:HA	1.93	0.50
3:Dg:135:ARG:O	3:Dg:138:ALA:N	2.45	0.50
3:Dj:56:ILE:N	3:Dj:56:ILE:CD1	2.75	0.50
3:DI:1:ALA:HB1	3:Dn:20:ASP:OD2	2.12	0.50
3:DI:75:GLN:HG3	3:DI:184:GLN:HG2	1.93	0.50
3:Dn:135:ARG:O	3:Dn:138:ALA:N	2.45	0.50
3:Dq:56:ILE:N	3:Dq:56:ILE:CD1	2.75	0.50
3:Dr:56:ILE:N	3:Dr:56:ILE:CD1	2.75	0.50
4:FL:25:PHE:O	4:FM:20:SER:HA	2.12	0.50
4:Fa:25:PHE:O	4:Fb:20:SER:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Fh:25:PHE:O	4:Fi:20:SER:HA	2.12	0.50
4:Fu:25:PHE:O	4:Fv:20:SER:HA	2.12	0.50
1:A0:187:LEU:HD12	1:A0:190:ALA:HB2	1.94	0.50
1:A1:107:PHE:HE1	1:A1:196:LEU:HB2	1.76	0.50
1:A1:149:SER:C	1:A1:151:SER:H	2.18	0.50
1:A1:157:SER:CB	3:D2:24:PRO:HA	2.36	0.50
1:A2:107:PHE:HE1	1:A2:196:LEU:HB2	1.76	0.50
1:A3:171:TYR:N	1:A3:185:ASN:OD1	2.45	0.50
1:A3:210:ARG:HD2	3:D4:14:PHE:CZ	2.46	0.50
1:A4:149:SER:C	1:A4:151:SER:H	2.18	0.50
1:A6:79:PHE:CZ	3:D7:31:VAL:HG11	2.47	0.50
1:A6:86:ILE:HD12	1:A6:86:ILE:H	1.73	0.50
1:A8:113:THR:O	1:A8:114:LYS:C	2.54	0.50
1:A8:157:SER:CB	3:D9:24:PRO:HA	2.36	0.50
1:AA:187:LEU:HD12	1:AA:190:ALA:HB2	1.94	0.50
1:AB:48:LEU:HD23	1:AB:198:THR:OG1	2.12	0.50
1:AD:128:VAL:CG1	1:AE:89:LYS:HG2	2.42	0.50
1:AF:48:LEU:HD23	1:AF:198:THR:OG1	2.12	0.50
1:AG:128:VAL:CG1	1:AH:89:LYS:HG2	2.42	0.50
1:AG:171:TYR:N	1:AG:185:ASN:OD1	2.45	0.50
1:AH:128:VAL:CG1	1:AI:89:LYS:HG2	2.42	0.50
1:AH:187:LEU:HD12	1:AH:190:ALA:HB2	1.94	0.50
1:AH:239:PHE:CD1	3:DH:170:TYR:CD2	2.96	0.50
1:AI:238:LYS:HA	3:DI:171:SER:O	2.12	0.50
1:AK:151:SER:C	1:AK:153:ALA:H	2.19	0.50
1:AL:40:VAL:HG22	1:AL:211:TYR:HE1	1.77	0.50
1:AR:40:VAL:HG22	1:AR:211:TYR:HE1	1.77	0.50
1:AR:106:TRP:O	1:AR:139:SER:HB2	2.11	0.50
1:AR:171:TYR:N	1:AR:185:ASN:OD1	2.45	0.50
1:AS:79:PHE:CZ	3:DT:31:VAL:HG11	2.47	0.50
1:AS:89:LYS:HG2	1:Ao:128:VAL:CG1	2.42	0.50
1:AV:82:LEU:HD23	1:AV:84:LEU:HD11	1.94	0.50
1:AW:82:LEU:HD23	1:AW:84:LEU:HD11	1.94	0.50
1:AW:181:LYS:O	1:AW:182:ALA:HB2	2.11	0.50
1:AZ:106:TRP:O	1:AZ:139:SER:HB2	2.11	0.50
1:Aa:82:LEU:HD23	1:Aa:84:LEU:HD11	1.94	0.50
1:Ad:13:THR:C	1:Ad:14:GLU:HG3	2.37	0.50
1:Ad:82:LEU:HD23	1:Ad:84:LEU:HD11	1.94	0.50
1:Ae:40:VAL:HG22	1:Ae:211:TYR:HE1	1.77	0.50
1:Ae:79:PHE:CZ	3:Dg:31:VAL:HG11	2.47	0.50
1:Aj:113:THR:O	1:Aj:114:LYS:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aj:128:VAL:CG1	1:Ak:89:LYS:HG2	2.42	0.50
1:Al:171:TYR:N	1:Al:185:ASN:OD1	2.45	0.50
1:Am:48:LEU:HD23	1:Am:198:THR:OG1	2.12	0.50
1:BA:82:LEU:HD23	1:BA:84:LEU:HD11	1.94	0.50
1:BA:106:TRP:O	1:BA:139:SER:HB2	2.11	0.50
1:BB:79:PHE:CZ	3:Dq:31:VAL:HG11	2.47	0.50
1:BB:82:LEU:HD23	1:BB:84:LEU:HD11	1.94	0.50
1:BD:107:PHE:HE1	1:BD:196:LEU:HB2	1.76	0.50
1:BD:150:ARG:HE	1:BD:150:ARG:H	1.60	0.50
1:BE:128:VAL:CG1	1:BF:89:LYS:HG2	2.42	0.50
1:BH:239:PHE:CD1	3:ED:170:TYR:CD2	2.96	0.50
1:BI:30:VAL:CG1	1:BI:218:MET:HE3	2.33	0.50
2:C0:140:LEU:HD22	2:C0:190:ASN:OD1	2.12	0.50
2:C0:153:GLN:HA	3:D0:53:PHE:HB2	1.94	0.50
2:C0:227:PRO:HB3	3:D1:132:PRO:HB3	1.94	0.50
2:C2:163:LEU:HD21	2:C2:169:SER:C	2.36	0.50
2:C2:227:PRO:HB3	3:D3:132:PRO:HB3	1.94	0.50
2:C3:163:LEU:HD21	2:C3:169:SER:C	2.36	0.50
2:C4:227:PRO:HB3	3:D5:132:PRO:HB3	1.94	0.50
2:C5:110:VAL:CG1	2:C5:213:MET:HE3	2.42	0.50
2:C6:48:SER:O	3:D7:159:PRO:HB2	2.12	0.50
2:C8:140:LEU:HD22	2:C8:190:ASN:OD1	2.12	0.50
2:C9:110:VAL:CG1	2:C9:213:MET:HE3	2.42	0.50
2:CC:125:CYS:HB2	2:CC:199:LEU:HD11	1.94	0.50
2:CF:80:ILE:HD11	2:CF:132:TYR:OH	2.11	0.50
2:CG:57:THR:HB	2:Ct:52:THR:OG1	2.11	0.50
2:CG:110:VAL:CG1	2:CG:213:MET:HE3	2.42	0.50
2:CG:153:GLN:HA	3:DG:53:PHE:HB2	1.94	0.50
2:CH:149:ALA:O	2:CH:152:TYR:N	2.45	0.50
2:CH:227:PRO:HB3	3:DI:132:PRO:HB3	1.94	0.50
2:CI:135:THR:HB	2:CI:139:ALA:CA	2.41	0.50
2:CM:110:VAL:CG1	2:CM:213:MET:HE3	2.42	0.50
2:CM:223:ASN:ND2	2:CM:223:ASN:N	2.60	0.50
2:CN:227:PRO:HB3	3:DO:132:PRO:HB3	1.94	0.50
2:CO:48:SER:O	3:DK:159:PRO:HB2	2.12	0.50
2:CQ:140:LEU:HD22	2:CQ:190:ASN:OD1	2.12	0.50
2:CV:153:GLN:HA	3:DV:53:PHE:HB2	1.94	0.50
2:CV:227:PRO:HB3	3:DW:132:PRO:HB3	1.94	0.50
2:CW:104:VAL:HG22	2:CW:222:VAL:HG13	1.92	0.50
2:CW:110:VAL:CG1	2:CW:213:MET:HE3	2.42	0.50
2:Cd:149:ALA:O	2:Cd:152:TYR:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cd:153:GLN:HA	3:Dd:53:PHE:HB2	1.94	0.50
2:Cd:158:PHE:O	2:Cd:159:PRO:C	2.55	0.50
2:Ce:149:ALA:O	2:Ce:152:TYR:N	2.45	0.50
2:Cg:140:LEU:HD22	2:Cg:190:ASN:OD1	2.12	0.50
2:Ch:48:SER:O	3:Di:159:PRO:HB2	2.12	0.50
2:Ch:149:ALA:O	2:Ch:152:TYR:N	2.45	0.50
2:Ck:16:THR:HA	2:Ck:24:ILE:O	2.11	0.50
2:Cn:104:VAL:HG22	2:Cn:222:VAL:HG13	1.93	0.50
2:Cn:227:PRO:HB3	3:Dj:132:PRO:HB3	1.94	0.50
2:Cp:227:PRO:HB3	3:Dq:132:PRO:HB3	1.94	0.50
2:Cr:149:ALA:O	2:Cr:152:TYR:N	2.45	0.50
2:Ct:16:THR:HA	2:Ct:24:ILE:O	2.11	0.50
2:Ct:140:LEU:HD22	2:Ct:190:ASN:OD1	2.12	0.50
2:Cv:115:ASN:CA	3:Dd:119:LYS:HZ3	2.25	0.50
2:Cw:135:THR:HB	2:Cw:139:ALA:CA	2.41	0.50
2:Cw:227:PRO:HB3	3:EE:132:PRO:HB3	1.94	0.50
3:D0:75:GLN:HG3	3:D0:184:GLN:HG2	1.93	0.50
3:D4:1:ALA:HB1	3:D6:20:ASP:OD2	2.12	0.50
3:D4:75:GLN:HG3	3:D4:184:GLN:HG2	1.93	0.50
3:D4:121:LEU:HD23	3:D4:121:LEU:O	2.12	0.50
3:D4:135:ARG:O	3:D4:138:ALA:N	2.45	0.50
3:D6:75:GLN:HG3	3:D6:184:GLN:HG2	1.93	0.50
3:D8:135:ARG:O	3:D8:138:ALA:N	2.45	0.50
3:DA:1:ALA:HB1	3:DC:20:ASP:OD2	2.12	0.50
3:DB:3:ILE:HG22	3:DB:4:ARG:N	2.27	0.50
3:DB:80:LEU:HD12	3:DB:80:LEU:H	1.77	0.50
3:DC:31:VAL:HG12	4:FC:35:ASP:HA	1.92	0.50
3:DF:3:ILE:HG22	3:DF:4:ARG:N	2.27	0.50
3:DH:42:ASN:HD22	3:DH:44:ILE:N	2.08	0.50
3:DJ:80:LEU:HD12	3:DJ:80:LEU:H	1.77	0.50
3:DK:1:ALA:HB1	3:DM:20:ASP:OD2	2.12	0.50
3:DK:97:PHE:CE1	3:DK:216:LEU:HD23	2.47	0.50
3:DK:121:LEU:HD23	3:DK:121:LEU:O	2.12	0.50
3:DM:1:ALA:HB1	3:DO:20:ASP:OD2	2.12	0.50
3:DP:1:ALA:HB1	3:DR:20:ASP:OD2	2.12	0.50
3:DP:135:ARG:O	3:DP:138:ALA:N	2.45	0.50
3:DR:19:PRO:HG3	4:FR:17:ASN:ND2	2.26	0.50
3:DS:31:VAL:HG12	4:FS:35:ASP:HA	1.92	0.50
3:DU:4:ARG:NH1	3:DX:20:ASP:OD2	2.45	0.50
3:DW:20:ASP:OD2	3:DY:4:ARG:NH1	2.45	0.50
3:DW:121:LEU:HD23	3:DW:121:LEU:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:80:LEU:HD12	3:DZ:80:LEU:H	1.77	0.50
3:Da:75:GLN:HG3	3:Da:184:GLN:HG2	1.93	0.50
3:Da:121:LEU:HD23	3:Da:121:LEU:O	2.12	0.50
3:Da:135:ARG:O	3:Da:138:ALA:N	2.45	0.50
3:Dd:31:VAL:HG12	4:Fd:35:ASP:HA	1.92	0.50
3:De:3:ILE:HG22	3:De:4:ARG:N	2.27	0.50
3:Df:20:ASP:OD2	3:Dh:4:ARG:NH1	2.45	0.50
3:Dn:80:LEU:HD12	3:Dn:80:LEU:H	1.77	0.50
3:Do:121:LEU:HD23	3:Do:121:LEU:O	2.12	0.50
3:Dp:20:ASP:OD2	3:Ds:1:ALA:HB1	2.12	0.50
3:Dq:20:ASP:OD2	3:Ds:4:ARG:NH1	2.45	0.50
3:EA:1:ALA:HB1	3:EC:20:ASP:OD2	2.12	0.50
3:EB:20:ASP:OD2	3:EE:1:ALA:HB1	2.12	0.50
3:EB:121:LEU:HD23	3:EB:121:LEU:O	2.12	0.50
3:ED:31:VAL:HG12	4:Fw:35:ASP:HA	1.92	0.50
3:ED:80:LEU:HD12	3:ED:80:LEU:H	1.77	0.50
3:ED:97:PHE:CE1	3:ED:216:LEU:HD23	2.47	0.50
4:F0:25:PHE:O	4:F1:20:SER:HA	2.12	0.50
4:F2:25:PHE:O	4:F3:20:SER:HA	2.12	0.50
4:F7:25:PHE:O	4:F8:20:SER:HA	2.12	0.50
4:F9:20:SER:HA	4:Fd:25:PHE:O	2.12	0.50
4:FA:25:PHE:O	4:FB:20:SER:HA	2.12	0.50
4:FN:25:PHE:O	4:FO:20:SER:HA	2.12	0.50
4:FQ:25:PHE:O	4:FR:20:SER:HA	2.12	0.50
4:Fb:25:PHE:O	4:Fc:20:SER:HA	2.12	0.50
4:Fk:25:PHE:O	4:Fl:20:SER:HA	2.12	0.50
1:A1:128:VAL:CG1	1:A2:89:LYS:HG2	2.42	0.49
1:A2:113:THR:O	1:A2:114:LYS:C	2.54	0.49
1:A3:79:PHE:CZ	3:D4:31:VAL:HG11	2.47	0.49
1:A4:238:LYS:HA	3:D5:171:SER:O	2.12	0.49
1:A5:113:THR:O	1:A5:114:LYS:C	2.55	0.49
1:A6:50:GLY:O	1:A6:131:GLN:NE2	2.43	0.49
1:A6:107:PHE:HE1	1:A6:196:LEU:HB2	1.76	0.49
1:A6:150:ARG:HE	1:A6:150:ARG:H	1.60	0.49
1:A7:171:TYR:N	1:A7:185:ASN:OD1	2.45	0.49
1:A8:48:LEU:HD23	1:A8:198:THR:OG1	2.12	0.49
1:A9:121:LEU:C	1:A9:121:LEU:HD13	2.36	0.49
1:AA:82:LEU:HD23	1:AA:84:LEU:HD11	1.94	0.49
1:AA:128:VAL:CG1	1:AB:89:LYS:HG2	2.42	0.49
1:AA:171:TYR:N	1:AA:185:ASN:OD1	2.45	0.49
1:AC:109:VAL:HG22	1:AC:191:HIS:CD2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:82:LEU:HD23	1:AF:84:LEU:HD11	1.94	0.49
1:AF:238:LYS:HA	3:DF:171:SER:O	2.12	0.49
1:AG:79:PHE:CZ	3:DG:31:VAL:HG11	2.47	0.49
1:AG:151:SER:C	1:AG:153:ALA:H	2.19	0.49
1:AH:150:ARG:H	1:AH:150:ARG:HE	1.60	0.49
1:AI:128:VAL:CG1	1:AJ:89:LYS:HG2	2.42	0.49
1:AI:151:SER:C	1:AI:153:ALA:H	2.19	0.49
1:AJ:82:LEU:HD23	1:AJ:84:LEU:HD11	1.94	0.49
1:AJ:121:LEU:HD13	1:AJ:121:LEU:C	2.36	0.49
1:AJ:181:LYS:O	1:AJ:182:ALA:HB2	2.11	0.49
1:AN:121:LEU:HD13	1:AN:121:LEU:C	2.36	0.49
1:AP:40:VAL:HG22	1:AP:211:TYR:HE1	1.77	0.49
1:AR:48:LEU:HD23	1:AR:198:THR:OG1	2.12	0.49
1:AT:48:LEU:HD23	1:AT:198:THR:OG1	2.12	0.49
1:AV:106:TRP:O	1:AV:139:SER:HB2	2.11	0.49
1:AW:79:PHE:CZ	3:DX:31:VAL:HG11	2.47	0.49
1:AX:50:GLY:O	1:AX:131:GLN:NE2	2.43	0.49
1:AZ:40:VAL:HG22	1:AZ:211:TYR:HE1	1.77	0.49
1:AZ:50:GLY:O	1:AZ:131:GLN:NE2	2.43	0.49
1:AZ:101:PHE:CD2	1:AZ:143:VAL:HG11	2.44	0.49
1:Aa:40:VAL:HG22	1:Aa:211:TYR:HE1	1.77	0.49
1:Aa:89:LYS:HG2	1:An:128:VAL:CG1	2.42	0.49
1:Ab:19:LEU:HD12	2:Cc:48:SER:HB2	1.93	0.49
1:Ad:107:PHE:HE1	1:Ad:196:LEU:HB2	1.76	0.49
1:Ad:238:LYS:HA	3:Df:171:SER:O	2.12	0.49
1:Ag:238:LYS:HA	3:Di:171:SER:O	2.12	0.49
1:Ai:150:ARG:H	1:Ai:150:ARG:HE	1.60	0.49
1:Am:210:ARG:HD2	3:Do:14:PHE:CZ	2.46	0.49
1:An:82:LEU:HD23	1:An:84:LEU:HD11	1.94	0.49
1:An:107:PHE:HE1	1:An:196:LEU:HB2	1.76	0.49
1:An:113:THR:O	1:An:114:LYS:C	2.55	0.49
1:Ao:121:LEU:HD13	1:Ao:121:LEU:C	2.36	0.49
1:Ao:171:TYR:N	1:Ao:185:ASN:OD1	2.45	0.49
1:BA:121:LEU:HD13	1:BA:121:LEU:C	2.36	0.49
1:BA:181:LYS:O	1:BA:182:ALA:HB2	2.11	0.49
1:BB:151:SER:C	1:BB:153:ALA:H	2.19	0.49
1:BB:181:LYS:O	1:BB:182:ALA:HB2	2.11	0.49
1:BE:40:VAL:HG22	1:BE:211:TYR:HE1	1.77	0.49
1:BF:40:VAL:HG22	1:BF:211:TYR:HE1	1.77	0.49
1:BH:181:LYS:O	1:BH:182:ALA:HB2	2.11	0.49
1:BI:238:LYS:HA	3:EE:171:SER:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:149:ALA:O	2:C0:152:TYR:N	2.45	0.49
2:C1:16:THR:HA	2:C1:24:ILE:O	2.11	0.49
2:C3:80:ILE:HD11	2:C3:132:TYR:OH	2.11	0.49
2:C5:16:THR:HA	2:C5:24:ILE:O	2.11	0.49
2:C6:158:PHE:O	2:C6:159:PRO:C	2.55	0.49
2:C7:16:THR:HA	2:C7:24:ILE:O	2.11	0.49
2:CC:140:LEU:HD22	2:CC:190:ASN:OD1	2.12	0.49
2:CD:16:THR:HA	2:CD:24:ILE:O	2.11	0.49
2:CD:163:LEU:HD21	2:CD:169:SER:C	2.36	0.49
2:CE:140:LEU:HD22	2:CE:190:ASN:OD1	2.12	0.49
2:CG:48:SER:O	3:DH:159:PRO:HB2	2.12	0.49
2:CK:227:PRO:HB3	3:DL:132:PRO:HB3	1.94	0.49
2:CL:158:PHE:O	2:CL:159:PRO:C	2.55	0.49
2:CN:140:LEU:HD22	2:CN:190:ASN:OD1	2.12	0.49
2:CO:158:PHE:O	2:CO:159:PRO:C	2.55	0.49
2:CO:223:ASN:ND2	2:CO:223:ASN:N	2.60	0.49
2:CP:223:ASN:ND2	2:CP:223:ASN:N	2.60	0.49
2:CR:80:ILE:HD11	2:CR:132:TYR:OH	2.11	0.49
2:CR:227:PRO:HB3	3:DS:132:PRO:HB3	1.94	0.49
2:CS:158:PHE:O	2:CS:159:PRO:C	2.55	0.49
2:CU:140:LEU:HD22	2:CU:190:ASN:OD1	2.12	0.49
2:CU:149:ALA:O	2:CU:152:TYR:N	2.45	0.49
2:CU:227:PRO:HB3	3:DV:132:PRO:HB3	1.94	0.49
2:CV:158:PHE:O	2:CV:159:PRO:C	2.55	0.49
2:CW:149:ALA:O	2:CW:152:TYR:N	2.45	0.49
2:CX:48:SER:O	3:DY:159:PRO:HB2	2.12	0.49
2:CX:110:VAL:CG1	2:CX:213:MET:HE3	2.42	0.49
2:CZ:115:ASN:CA	3:Dq:119:LYS:HZ3	2.25	0.49
2:CZ:223:ASN:ND2	2:CZ:223:ASN:N	2.60	0.49
2:Cd:48:SER:O	3:D9:159:PRO:HB2	2.12	0.49
2:Cd:227:PRO:HB3	3:D9:132:PRO:HB3	1.94	0.49
2:Ci:115:ASN:CA	3:Dj:119:LYS:HZ3	2.25	0.49
2:Ci:149:ALA:O	2:Ci:152:TYR:N	2.45	0.49
2:Cj:227:PRO:HB3	3:Dk:132:PRO:HB3	1.94	0.49
2:Ck:48:SER:O	3:DI:159:PRO:HB2	2.12	0.49
2:Cl:84:PRO:HD2	2:Cl:186:LEU:HD22	1.94	0.49
2:Cm:125:CYS:HB2	2:Cm:199:LEU:HD11	1.94	0.49
2:Co:48:SER:O	3:Dp:159:PRO:HB2	2.12	0.49
2:Co:110:VAL:CG1	2:Co:213:MET:HE3	2.42	0.49
2:Cp:104:VAL:HG22	2:Cp:222:VAL:HG13	1.93	0.49
2:Cp:115:ASN:CA	3:D0:119:LYS:HZ3	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cp:125:CYS:HB2	2:Cp:199:LEU:HD11	1.94	0.49
2:Cr:24:ILE:HG23	3:DI:145:VAL:HB	1.92	0.49
2:Cs:223:ASN:ND2	2:Cs:223:ASN:N	2.60	0.49
3:D3:60:PRO:O	3:D3:61:TYR:HB3	2.11	0.49
3:D4:56:ILE:N	3:D4:56:ILE:CD1	2.75	0.49
3:D5:75:GLN:HG3	3:D5:184:GLN:HG2	1.93	0.49
3:D7:80:LEU:HD12	3:D7:80:LEU:H	1.77	0.49
3:D8:75:GLN:HG3	3:D8:184:GLN:HG2	1.93	0.49
3:DC:19:PRO:HG3	4:FC:17:ASN:ND2	2.26	0.49
3:DC:135:ARG:O	3:DC:138:ALA:N	2.45	0.49
3:DD:102:GLY:HA3	3:DD:214:PHE:HA	1.93	0.49
3:DE:19:PRO:HG3	4:FE:17:ASN:ND2	2.26	0.49
3:DE:56:ILE:N	3:DE:56:ILE:CD1	2.75	0.49
3:DE:84:GLU:CD	3:DE:84:GLU:H	2.21	0.49
3:DG:20:ASP:OD2	3:DJ:1:ALA:HB1	2.12	0.49
3:DG:135:ARG:O	3:DG:138:ALA:N	2.45	0.49
3:DI:121:LEU:HD23	3:DI:121:LEU:O	2.12	0.49
3:DK:135:ARG:O	3:DK:138:ALA:N	2.45	0.49
3:DL:20:ASP:OD2	3:DN:4:ARG:NH1	2.45	0.49
3:DM:80:LEU:HD12	3:DM:80:LEU:H	1.77	0.49
3:DN:135:ARG:O	3:DN:138:ALA:N	2.45	0.49
3:DP:3:ILE:HG22	3:DP:4:ARG:N	2.27	0.49
3:DQ:60:PRO:O	3:DQ:61:TYR:HB3	2.11	0.49
3:DR:20:ASP:OD2	3:DT:4:ARG:NH1	2.45	0.49
3:DS:97:PHE:CE1	3:DS:216:LEU:HD23	2.47	0.49
3:DU:19:PRO:HG3	4:FU:17:ASN:ND2	2.26	0.49
3:DU:56:ILE:N	3:DU:56:ILE:CD1	2.75	0.49
3:DW:1:ALA:HB1	3:DY:20:ASP:OD2	2.12	0.49
3:DY:75:GLN:HG3	3:DY:184:GLN:HG2	1.93	0.49
3:De:97:PHE:CE1	3:De:216:LEU:HD23	2.47	0.49
3:Dh:19:PRO:HG3	4:Fh:17:ASN:ND2	2.26	0.49
3:Dh:56:ILE:N	3:Dh:56:ILE:CD1	2.75	0.49
3:Di:56:ILE:N	3:Di:56:ILE:CD1	2.75	0.49
3:Di:97:PHE:CE1	3:Di:216:LEU:HD23	2.47	0.49
3:Dj:75:GLN:HG3	3:Dj:184:GLN:HG2	1.93	0.49
3:Dn:56:ILE:N	3:Dn:56:ILE:CD1	2.75	0.49
3:Do:4:ARG:NH1	3:Dr:20:ASP:OD2	2.45	0.49
3:Dp:135:ARG:O	3:Dp:138:ALA:N	2.45	0.49
3:Dq:97:PHE:CE1	3:Dq:216:LEU:HD23	2.47	0.49
3:ED:56:ILE:N	3:ED:56:ILE:CD1	2.75	0.49
3:EE:56:ILE:N	3:EE:56:ILE:CD1	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:97:PHE:CE1	3:EE:216:LEU:HD23	2.47	0.49
4:F4:20:SER:HA	4:F8:25:PHE:O	2.12	0.49
4:FU:25:PHE:O	4:FV:20:SER:HA	2.12	0.49
4:Fg:25:PHE:O	4:Fh:20:SER:HA	2.12	0.49
1:A0:150:ARG:HE	1:A0:150:ARG:H	1.59	0.49
1:A1:187:LEU:HD12	1:A1:190:ALA:HB2	1.94	0.49
1:A1:239:PHE:CD1	3:D2:170:TYR:CD2	2.96	0.49
1:A3:113:THR:O	1:A3:114:LYS:C	2.55	0.49
1:A4:128:VAL:CG1	1:A5:89:LYS:HG2	2.42	0.49
1:A6:13:THR:C	1:A6:14:GLU:HG3	2.38	0.49
1:A6:40:VAL:HG22	1:A6:211:TYR:HE1	1.77	0.49
1:A6:187:LEU:HD12	1:A6:190:ALA:HB2	1.94	0.49
1:A7:30:VAL:CG1	1:A7:218:MET:HE3	2.33	0.49
1:A7:40:VAL:HG22	1:A7:211:TYR:HE1	1.77	0.49
1:A7:187:LEU:HD12	1:A7:190:ALA:HB2	1.94	0.49
1:A8:238:LYS:HA	3:D9:171:SER:O	2.12	0.49
1:A9:79:PHE:CZ	3:Da:31:VAL:HG11	2.47	0.49
1:A9:150:ARG:HE	1:A9:150:ARG:H	1.59	0.49
1:AD:82:LEU:HD23	1:AD:84:LEU:HD11	1.94	0.49
1:AD:113:THR:O	1:AD:114:LYS:C	2.55	0.49
1:AE:151:SER:C	1:AE:153:ALA:H	2.19	0.49
1:AG:40:VAL:HG22	1:AG:211:TYR:HE1	1.77	0.49
1:AG:82:LEU:HD23	1:AG:84:LEU:HD11	1.94	0.49
1:AG:239:PHE:CD1	3:DG:170:TYR:CD2	2.96	0.49
1:AH:238:LYS:HA	3:DH:171:SER:O	2.12	0.49
1:AM:30:VAL:CG1	1:AM:218:MET:HE3	2.34	0.49
1:AM:40:VAL:HG22	1:AM:211:TYR:HE1	1.77	0.49
1:AO:210:ARG:HD2	3:DO:14:PHE:CZ	2.46	0.49
1:AP:187:LEU:HD12	1:AP:190:ALA:HB2	1.94	0.49
1:AQ:79:PHE:CZ	3:DQ:31:VAL:HG11	2.47	0.49
1:AR:82:LEU:HD23	1:AR:84:LEU:HD11	1.94	0.49
1:AU:79:PHE:CZ	3:DV:31:VAL:HG11	2.47	0.49
1:AV:151:SER:C	1:AV:153:ALA:H	2.19	0.49
1:AX:239:PHE:CD1	3:DY:170:TYR:CD2	2.96	0.49
1:AY:107:PHE:HE1	1:AY:196:LEU:HB2	1.76	0.49
1:AZ:113:THR:O	1:AZ:114:LYS:C	2.55	0.49
1:AZ:150:ARG:HE	1:AZ:150:ARG:H	1.59	0.49
1:Aa:13:THR:C	1:Aa:14:GLU:HG3	2.38	0.49
1:Ab:79:PHE:CZ	3:Dd:31:VAL:HG11	2.47	0.49
1:Ab:82:LEU:HD23	1:Ab:84:LEU:HD11	1.94	0.49
1:Ad:128:VAL:CG1	1:Ae:89:LYS:HG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ae:13:THR:C	1:Ae:14:GLU:HG3	2.38	0.49
1:Af:30:VAL:CG1	1:Af:218:MET:HE3	2.34	0.49
1:Af:238:LYS:HA	3:Dh:171:SER:O	2.12	0.49
1:Ai:48:LEU:HD23	1:Ai:198:THR:OG1	2.12	0.49
1:Am:82:LEU:HD23	1:Am:84:LEU:HD11	1.94	0.49
1:Am:113:THR:O	1:Am:114:LYS:C	2.55	0.49
1:Am:181:LYS:O	1:Am:182:ALA:HB2	2.11	0.49
1:An:170:PHE:CD2	1:An:222:ARG:CZ	2.87	0.49
1:Ao:19:LEU:HD12	2:CR:48:SER:HB2	1.93	0.49
1:BB:101:PHE:CD2	1:BB:143:VAL:HG11	2.43	0.49
1:BB:187:LEU:HD12	1:BB:190:ALA:HB2	1.94	0.49
1:BC:82:LEU:HD23	1:BC:84:LEU:HD11	1.94	0.49
1:BC:150:ARG:HE	1:BC:150:ARG:H	1.60	0.49
1:BE:13:THR:C	1:BE:14:GLU:HG3	2.38	0.49
1:BE:238:LYS:HA	3:EA:171:SER:O	2.12	0.49
1:BG:149:SER:C	1:BG:151:SER:H	2.18	0.49
2:C0:84:PRO:HD2	2:C0:186:LEU:HD22	1.95	0.49
2:C1:140:LEU:HD22	2:C1:190:ASN:OD1	2.12	0.49
2:C1:149:ALA:O	2:C1:152:TYR:N	2.45	0.49
2:C2:110:VAL:CG1	2:C2:213:MET:HE3	2.42	0.49
2:C3:140:LEU:HD22	2:C3:190:ASN:OD1	2.12	0.49
2:C3:153:GLN:HA	3:D3:53:PHE:HB2	1.94	0.49
2:C4:125:CYS:HB2	2:C4:199:LEU:HD11	1.94	0.49
2:C5:153:GLN:HA	3:D5:53:PHE:HB2	1.93	0.49
2:C6:140:LEU:HD22	2:C6:190:ASN:OD1	2.12	0.49
2:C7:84:PRO:HD2	2:C7:186:LEU:HD22	1.94	0.49
2:C7:227:PRO:HB3	3:D8:132:PRO:HB3	1.94	0.49
2:C9:163:LEU:HD21	2:C9:169:SER:C	2.36	0.49
2:CA:80:ILE:HD11	2:CA:132:TYR:OH	2.11	0.49
2:CA:149:ALA:O	2:CA:152:TYR:N	2.45	0.49
2:CA:158:PHE:O	2:CA:159:PRO:C	2.55	0.49
2:CB:158:PHE:O	2:CB:159:PRO:C	2.55	0.49
2:CF:227:PRO:HB3	3:DG:132:PRO:HB3	1.94	0.49
2:CG:227:PRO:HB3	3:DH:132:PRO:HB3	1.94	0.49
2:CH:48:SER:O	3:DI:159:PRO:HB2	2.12	0.49
2:CH:110:VAL:CG1	2:CH:213:MET:HE3	2.42	0.49
2:CH:125:CYS:HB2	2:CH:199:LEU:HD11	1.94	0.49
2:CH:223:ASN:ND2	2:CH:223:ASN:N	2.61	0.49
2:CI:223:ASN:ND2	2:CI:223:ASN:N	2.61	0.49
2:CK:104:VAL:HG22	2:CK:222:VAL:HG13	1.92	0.49
2:CK:115:ASN:CA	3:Db:119:LYS:HZ3	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CK:125:CYS:HB2	2:CK:199:LEU:HD11	1.94	0.49
2:CK:140:LEU:HD22	2:CK:190:ASN:OD1	2.12	0.49
2:CO:140:LEU:HD22	2:CO:190:ASN:OD1	2.12	0.49
2:CQ:115:ASN:CA	3:Dp:119:LYS:HZ3	2.24	0.49
2:CR:158:PHE:O	2:CR:159:PRO:C	2.55	0.49
2:CS:24:ILE:HG23	3:Dc:145:VAL:HB	1.92	0.49
2:CT:140:LEU:HD22	2:CT:190:ASN:OD1	2.12	0.49
2:CT:223:ASN:ND2	2:CT:223:ASN:N	2.60	0.49
2:CY:115:ASN:CA	3:DZ:119:LYS:HZ3	2.25	0.49
2:CY:125:CYS:HB2	2:CY:199:LEU:HD11	1.94	0.49
2:Ca:135:THR:HB	2:Ca:139:ALA:CA	2.41	0.49
2:Cc:152:TYR:HE1	3:Dc:60:PRO:HB3	1.78	0.49
2:Ch:84:PRO:HD2	2:Ch:186:LEU:HD22	1.94	0.49
2:Ch:163:LEU:HD21	2:Ch:169:SER:C	2.36	0.49
2:Ch:48:SER:O	3:De:159:PRO:HB2	2.12	0.49
2:Co:140:LEU:HD22	2:Co:190:ASN:OD1	2.12	0.49
2:Cp:223:ASN:ND2	2:Cp:223:ASN:N	2.61	0.49
2:Cr:110:VAL:CG1	2:Cr:213:MET:HE3	2.42	0.49
2:Cr:125:CYS:HB2	2:Cr:199:LEU:HD11	1.94	0.49
2:Cs:180:PRO:HD2	2:Cs:189:HIS:HE1	1.76	0.49
2:Ct:149:ALA:O	2:Ct:152:TYR:N	2.45	0.49
2:Ct:158:PHE:O	2:Ct:159:PRO:C	2.55	0.49
2:Cu:158:PHE:O	2:Cu:159:PRO:C	2.55	0.49
2:Cv:110:VAL:CG1	2:Cv:215:VAL:HA	2.43	0.49
2:Cx:153:GLN:HA	3:EE:53:PHE:HB2	1.94	0.49
3:D0:135:ARG:O	3:D0:138:ALA:N	2.45	0.49
3:D1:20:ASP:OD2	3:D3:4:ARG:NH1	2.45	0.49
3:D1:121:LEU:HD23	3:D1:121:LEU:O	2.12	0.49
3:D2:60:PRO:O	3:D2:61:TYR:HB3	2.11	0.49
3:D3:135:ARG:O	3:D3:138:ALA:N	2.45	0.49
3:D5:4:ARG:NH1	3:D8:20:ASP:OD2	2.45	0.49
3:D5:121:LEU:HD23	3:D5:121:LEU:O	2.12	0.49
3:D8:121:LEU:HD23	3:D8:121:LEU:O	2.12	0.49
3:D9:80:LEU:HD12	3:D9:80:LEU:H	1.77	0.49
3:D9:97:PHE:CE1	3:D9:216:LEU:HD23	2.47	0.49
3:DA:135:ARG:O	3:DA:138:ALA:N	2.45	0.49
3:DB:20:ASP:OD2	3:DE:1:ALA:HB1	2.12	0.49
3:DB:56:ILE:N	3:DB:56:ILE:CD1	2.75	0.49
3:DB:75:GLN:HG3	3:DB:184:GLN:HG2	1.93	0.49
3:DD:97:PHE:CE1	3:DD:216:LEU:HD23	2.47	0.49
3:DE:97:PHE:CE1	3:DE:216:LEU:HD23	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:20:ASP:OD2	3:DJ:4:ARG:NH1	2.45	0.49
3:DK:80:LEU:HD12	3:DK:80:LEU:H	1.77	0.49
3:DL:60:PRO:O	3:DL:61:TYR:HB3	2.11	0.49
3:DM:97:PHE:CE1	3:DM:216:LEU:HD23	2.47	0.49
3:DO:97:PHE:CE1	3:DO:216:LEU:HD23	2.47	0.49
3:DO:121:LEU:HD23	3:DO:121:LEU:O	2.12	0.49
3:DP:20:ASP:OD2	3:DS:1:ALA:HB1	2.12	0.49
3:DP:20:ASP:OD2	3:DR:4:ARG:NH1	2.45	0.49
3:DS:135:ARG:O	3:DS:138:ALA:N	2.45	0.49
3:DU:20:ASP:OD2	3:DX:1:ALA:HB1	2.12	0.49
3:DU:121:LEU:HD23	3:DU:121:LEU:O	2.12	0.49
3:DV:97:PHE:CE1	3:DV:216:LEU:HD23	2.47	0.49
3:DY:60:PRO:O	3:DY:61:TYR:HB3	2.11	0.49
3:DZ:135:ARG:O	3:DZ:138:ALA:N	2.45	0.49
3:Da:97:PHE:CE1	3:Da:216:LEU:HD23	2.47	0.49
3:Db:56:ILE:N	3:Db:56:ILE:CD1	2.75	0.49
3:Dd:97:PHE:CE1	3:Dd:216:LEU:HD23	2.47	0.49
3:Dd:121:LEU:HD23	3:Dd:121:LEU:O	2.12	0.49
3:Dg:20:ASP:OD2	3:Di:4:ARG:NH1	2.45	0.49
3:Dg:75:GLN:HG3	3:Dg:184:GLN:HG2	1.93	0.49
3:Dg:121:LEU:HD23	3:Dg:121:LEU:O	2.12	0.49
3:Di:121:LEU:HD23	3:Di:121:LEU:O	2.12	0.49
3:Dj:20:ASP:OD2	3:Di:4:ARG:NH1	2.45	0.49
3:Dj:60:PRO:O	3:Dj:61:TYR:HB3	2.11	0.49
3:Dk:60:PRO:O	3:Dk:61:TYR:HB3	2.11	0.49
3:Dk:121:LEU:HD23	3:Dk:121:LEU:O	2.12	0.49
3:Dm:56:ILE:N	3:Dm:56:ILE:CD1	2.75	0.49
3:Dn:102:GLY:HA3	3:Dn:214:PHE:HA	1.93	0.49
3:Do:80:LEU:HD12	3:Do:80:LEU:H	1.77	0.49
3:Dp:4:ARG:NH1	3:Ds:20:ASP:OD2	2.45	0.49
3:Dp:56:ILE:N	3:Dp:56:ILE:CD1	2.75	0.49
3:Dp:102:GLY:HA3	3:Dp:214:PHE:HA	1.93	0.49
3:EA:20:ASP:OD2	3:ED:1:ALA:HB1	2.12	0.49
3:EB:75:GLN:HG3	3:EB:184:GLN:HG2	1.93	0.49
4:FD:25:PHE:O	4:FE:20:SER:HA	2.12	0.49
4:FG:25:PHE:O	4:FH:20:SER:HA	2.12	0.49
4:Fo:25:PHE:O	4:Fp:20:SER:HA	2.12	0.49
1:A1:238:LYS:HA	3:D2:171:SER:O	2.12	0.49
1:A2:82:LEU:HD23	1:A2:84:LEU:HD11	1.94	0.49
1:A4:40:VAL:HG22	1:A4:211:TYR:HE1	1.77	0.49
1:A6:171:TYR:N	1:A6:185:ASN:OD1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:113:THR:O	1:A9:114:LYS:C	2.55	0.49
1:AA:19:LEU:HD12	2:CE:48:SER:HB2	1.93	0.49
1:AA:113:THR:O	1:AA:114:LYS:C	2.55	0.49
1:AA:121:LEU:HD13	1:AA:121:LEU:C	2.36	0.49
1:AC:82:LEU:HD23	1:AC:84:LEU:HD11	1.94	0.49
1:AD:19:LEU:HD12	2:CC:48:SER:HB2	1.93	0.49
1:AE:79:PHE:CZ	3:DE:31:VAL:HG11	2.47	0.49
1:AE:101:PHE:CD2	1:AE:143:VAL:HG11	2.44	0.49
1:AH:48:LEU:HD23	1:AH:198:THR:OG1	2.12	0.49
1:AH:82:LEU:HD23	1:AH:84:LEU:HD11	1.94	0.49
1:AI:40:VAL:HG22	1:AI:211:TYR:HE1	1.77	0.49
1:AJ:79:PHE:CZ	3:DJ:31:VAL:HG11	2.47	0.49
1:AJ:113:THR:O	1:AJ:114:LYS:C	2.55	0.49
1:AK:40:VAL:HG22	1:AK:211:TYR:HE1	1.77	0.49
1:AM:113:THR:O	1:AM:114:LYS:C	2.55	0.49
1:AN:79:PHE:CZ	3:DN:31:VAL:HG11	2.47	0.49
1:AO:170:PHE:CD2	1:AO:222:ARG:CZ	2.87	0.49
1:AO:238:LYS:HA	3:DO:171:SER:O	2.12	0.49
1:AP:113:THR:O	1:AP:114:LYS:C	2.55	0.49
1:AP:170:PHE:CD2	1:AP:222:ARG:CZ	2.87	0.49
1:AR:30:VAL:CG1	1:AR:218:MET:HE3	2.34	0.49
1:AT:50:GLY:O	1:AT:131:GLN:NE2	2.43	0.49
1:AT:86:ILE:HD12	1:AT:86:ILE:H	1.73	0.49
1:AU:128:VAL:CG1	1:AV:89:LYS:HG2	2.42	0.49
1:AV:40:VAL:HG22	1:AV:211:TYR:HE1	1.77	0.49
1:AW:238:LYS:HA	3:DX:171:SER:O	2.12	0.49
1:AY:238:LYS:HA	3:DZ:171:SER:O	2.12	0.49
1:Aa:187:LEU:HD12	1:Aa:190:ALA:HB2	1.94	0.49
1:Ab:239:PHE:CD1	3:Dd:170:TYR:CD2	2.96	0.49
1:Ac:79:PHE:CZ	3:De:31:VAL:HG11	2.47	0.49
1:Ae:113:THR:O	1:Ae:114:LYS:C	2.55	0.49
1:Af:13:THR:C	1:Af:14:GLU:HG3	2.37	0.49
1:Ah:13:THR:C	1:Ah:14:GLU:HG3	2.37	0.49
1:Ah:238:LYS:HA	3:Dj:171:SER:O	2.12	0.49
1:Ai:187:LEU:HD12	1:Ai:190:ALA:HB2	1.94	0.49
1:Ak:79:PHE:CZ	3:Dm:31:VAL:HG11	2.47	0.49
1:Al:113:THR:O	1:Al:114:LYS:C	2.55	0.49
1:Am:128:VAL:CG1	1:BA:89:LYS:HG2	2.42	0.49
1:An:121:LEU:HD13	1:An:121:LEU:C	2.36	0.49
1:An:150:ARG:HE	1:An:150:ARG:H	1.60	0.49
1:Ao:48:LEU:HD23	1:Ao:198:THR:OG1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:82:LEU:HD23	1:Ao:84:LEU:HD11	1.94	0.49
1:BA:40:VAL:HG22	1:BA:211:TYR:HE1	1.77	0.49
1:BB:40:VAL:HG22	1:BB:211:TYR:HE1	1.77	0.49
1:BC:128:VAL:CG1	1:BD:89:LYS:HG2	2.42	0.49
1:BG:171:TYR:N	1:BG:185:ASN:OD1	2.45	0.49
1:BH:79:PHE:CZ	3:ED:31:VAL:HG11	2.47	0.49
1:BH:187:LEU:HD12	1:BH:190:ALA:HB2	1.94	0.49
1:BI:48:LEU:HD23	1:BI:198:THR:OG1	2.12	0.49
1:BI:82:LEU:HD23	1:BI:84:LEU:HD11	1.94	0.49
2:C2:84:PRO:HD2	2:C2:186:LEU:HD22	1.94	0.49
2:C5:48:SER:O	3:D6:159:PRO:HB2	2.12	0.49
2:C7:110:VAL:CG1	2:C7:213:MET:HE3	2.42	0.49
2:C7:223:ASN:ND2	2:C7:223:ASN:N	2.60	0.49
2:C8:84:PRO:HD2	2:C8:186:LEU:HD22	1.94	0.49
2:C8:135:THR:HB	2:C8:139:ALA:CA	2.41	0.49
2:C8:163:LEU:HD21	2:C8:169:SER:C	2.36	0.49
2:C9:84:PRO:HD2	2:C9:186:LEU:HD22	1.95	0.49
2:C9:158:PHE:O	2:C9:159:PRO:C	2.55	0.49
2:CB:48:SER:O	3:DC:159:PRO:HB2	2.12	0.49
2:CD:110:VAL:CG1	2:CD:215:VAL:HA	2.43	0.49
2:CF:48:SER:O	3:DG:159:PRO:HB2	2.12	0.49
2:CF:110:VAL:CG1	2:CF:213:MET:HE3	2.42	0.49
2:CF:115:ASN:CA	3:D6:119:LYS:HZ3	2.25	0.49
2:CL:16:THR:HA	2:CL:24:ILE:O	2.11	0.49
2:CL:110:VAL:CG1	2:CL:213:MET:HE3	2.42	0.49
2:CL:135:THR:HB	2:CL:139:ALA:CA	2.41	0.49
2:CM:152:TYR:HE1	3:DM:60:PRO:HB3	1.78	0.49
2:CP:163:LEU:HD21	2:CP:169:SER:C	2.36	0.49
2:CR:153:GLN:HA	3:DR:53:PHE:HB2	1.94	0.49
2:CT:110:VAL:CG1	2:CT:213:MET:HE3	2.42	0.49
2:CU:152:TYR:HE1	3:DU:60:PRO:HB3	1.78	0.49
2:Ca:48:SER:O	3:Db:159:PRO:HB2	2.12	0.49
2:Ca:125:CYS:HB2	2:Ca:199:LEU:HD11	1.94	0.49
2:Ca:158:PHE:O	2:Ca:159:PRO:C	2.55	0.49
2:Cc:149:ALA:O	2:Cc:152:TYR:N	2.45	0.49
2:Cf:153:GLN:HA	3:Df:53:PHE:HB2	1.94	0.49
2:Ch:73:GLN:HA	2:Ch:73:GLN:NE2	2.17	0.49
2:Ck:152:TYR:HE1	3:Dk:60:PRO:HB3	1.78	0.49
2:Cn:149:ALA:O	2:Cn:152:TYR:N	2.45	0.49
2:Cn:158:PHE:O	2:Cn:159:PRO:C	2.55	0.49
2:Cq:209:VAL:N	2:Cq:210:PRO:CD	2.68	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ct:135:THR:HB	2:Ct:139:ALA:CA	2.41	0.49
2:Cv:227:PRO:HB3	3:ED:132:PRO:HB3	1.94	0.49
2:Cw:110:VAL:CG1	2:Cw:213:MET:HE3	2.42	0.49
2:Cw:115:ASN:CA	3:DS:119:LYS:HZ3	2.25	0.49
3:D1:19:PRO:HG3	4:F1:17:ASN:ND2	2.26	0.49
3:D2:121:LEU:HD23	3:D2:121:LEU:O	2.12	0.49
3:D4:97:PHE:CE1	3:D4:216:LEU:HD23	2.47	0.49
3:D4:102:GLY:HA3	3:D4:214:PHE:HA	1.93	0.49
3:D5:1:ALA:HB1	3:D7:20:ASP:OD2	2.12	0.49
3:D5:20:ASP:OD2	3:D8:1:ALA:HB1	2.12	0.49
3:D7:121:LEU:HD23	3:D7:121:LEU:O	2.12	0.49
3:DA:20:ASP:OD2	3:DC:4:ARG:NH1	2.45	0.49
3:DF:4:ARG:NH1	3:DI:20:ASP:OD2	2.45	0.49
3:DG:19:PRO:HG3	4:FG:17:ASN:ND2	2.26	0.49
3:DG:84:GLU:CD	3:DG:84:GLU:H	2.20	0.49
3:DG:97:PHE:CE1	3:DG:216:LEU:HD23	2.47	0.49
3:DH:135:ARG:O	3:DH:138:ALA:N	2.45	0.49
3:DI:97:PHE:CE1	3:DI:216:LEU:HD23	2.47	0.49
3:DJ:135:ARG:O	3:DJ:138:ALA:N	2.45	0.49
3:DM:121:LEU:HD23	3:DM:121:LEU:O	2.12	0.49
3:DO:56:ILE:N	3:DO:56:ILE:CD1	2.75	0.49
3:DP:97:PHE:CE1	3:DP:216:LEU:HD23	2.47	0.49
3:DP:102:GLY:HA3	3:DP:214:PHE:HA	1.93	0.49
3:DP:121:LEU:HD23	3:DP:121:LEU:O	2.12	0.49
3:DR:56:ILE:N	3:DR:56:ILE:CD1	2.75	0.49
3:DR:135:ARG:O	3:DR:138:ALA:N	2.45	0.49
3:DS:75:GLN:HG3	3:DS:184:GLN:HG2	1.93	0.49
3:DU:102:GLY:HA3	3:DU:214:PHE:HA	1.93	0.49
3:DY:84:GLU:CD	3:DY:84:GLU:H	2.21	0.49
3:Da:3:ILE:HG22	3:Da:4:ARG:N	2.27	0.49
3:Da:56:ILE:N	3:Da:56:ILE:CD1	2.75	0.49
3:Dd:75:GLN:HG3	3:Dd:184:GLN:HG2	1.93	0.49
3:Dd:135:ARG:O	3:Dd:138:ALA:N	2.45	0.49
3:Dg:56:ILE:N	3:Dg:56:ILE:CD1	2.75	0.49
3:Dg:103:SER:HB3	3:Dg:159:PRO:CA	2.35	0.49
3:Dh:102:GLY:HA3	3:Dh:214:PHE:HA	1.93	0.49
3:Dj:80:LEU:HD12	3:Dj:80:LEU:H	1.77	0.49
3:Dj:97:PHE:CE1	3:Dj:216:LEU:HD23	2.47	0.49
3:Dk:4:ARG:NH1	3:Dn:20:ASP:OD2	2.45	0.49
3:EA:20:ASP:OD2	3:EC:4:ARG:NH1	2.45	0.49
3:EB:56:ILE:N	3:EB:56:ILE:CD1	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:3:ILE:HG22	3:ED:4:ARG:N	2.27	0.49
3:ED:75:GLN:HG3	3:ED:184:GLN:HG2	1.93	0.49
3:EE:3:ILE:HG22	3:EE:4:ARG:N	2.27	0.49
4:FS:25:PHE:O	4:FT:20:SER:HA	2.12	0.49
4:Fe:25:PHE:O	4:Ff:20:SER:HA	2.12	0.49
4:Fj:20:SER:HA	4:Fn:25:PHE:O	2.12	0.49
4:Ft:25:PHE:O	4:Fu:20:SER:HA	2.12	0.49
1:A0:79:PHE:CZ	3:D1:31:VAL:HG11	2.47	0.49
1:A0:89:LYS:HG2	1:AZ:128:VAL:CG1	2.42	0.49
1:A2:187:LEU:HD12	1:A2:190:ALA:HB2	1.94	0.49
1:A3:82:LEU:HD23	1:A3:84:LEU:HD11	1.94	0.49
1:A3:121:LEU:HD23	1:A4:42:THR:OG1	2.13	0.49
1:A3:170:PHE:CD2	1:A3:222:ARG:CZ	2.87	0.49
1:A3:187:LEU:HD12	1:A3:190:ALA:HB2	1.94	0.49
1:A4:79:PHE:CZ	3:D5:31:VAL:HG11	2.47	0.49
1:A5:79:PHE:CZ	3:D6:31:VAL:HG11	2.47	0.49
1:A7:48:LEU:HD23	1:A7:198:THR:OG1	2.12	0.49
1:A8:128:VAL:CG1	1:A9:89:LYS:HG2	2.42	0.49
1:A9:40:VAL:HG22	1:A9:211:TYR:HE1	1.77	0.49
1:A9:171:TYR:N	1:A9:185:ASN:OD1	2.45	0.49
1:AB:82:LEU:HD23	1:AB:84:LEU:HD11	1.94	0.49
1:AB:157:SER:CB	3:DB:24:PRO:HA	2.35	0.49
1:AC:101:PHE:CD2	1:AC:143:VAL:HG11	2.44	0.49
1:AE:82:LEU:HD23	1:AE:84:LEU:HD11	1.94	0.49
1:AF:187:LEU:HD12	1:AF:190:ALA:HB2	1.94	0.49
1:AG:86:ILE:HD12	1:AG:86:ILE:H	1.72	0.49
1:AI:106:TRP:O	1:AI:139:SER:HB2	2.11	0.49
1:AI:150:ARG:H	1:AI:150:ARG:HE	1.60	0.49
1:AJ:30:VAL:CG1	1:AJ:218:MET:HE3	2.34	0.49
1:AJ:50:GLY:O	1:AJ:131:GLN:NE2	2.43	0.49
1:AJ:187:LEU:HD12	1:AJ:190:ALA:HB2	1.95	0.49
1:AN:19:LEU:HD12	2:CM:48:SER:HB2	1.93	0.49
1:AO:181:LYS:O	1:AO:182:ALA:HB2	2.11	0.49
1:AP:128:VAL:CG1	1:AQ:89:LYS:HG2	2.42	0.49
1:AP:238:LYS:HA	3:DP:171:SER:O	2.12	0.49
1:AQ:82:LEU:HD23	1:AQ:84:LEU:HD11	1.94	0.49
1:AR:13:THR:C	1:AR:14:GLU:HG3	2.38	0.49
1:AS:82:LEU:HD23	1:AS:84:LEU:HD11	1.94	0.49
1:AV:238:LYS:HA	3:DW:171:SER:O	2.12	0.49
1:AW:187:LEU:HD12	1:AW:190:ALA:HB2	1.94	0.49
1:AX:79:PHE:CZ	3:DY:31:VAL:HG11	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:48:LEU:HD23	1:AY:198:THR:OG1	2.12	0.49
1:AY:79:PHE:CZ	3:DZ:31:VAL:HG11	2.47	0.49
1:AZ:171:TYR:N	1:AZ:185:ASN:OD1	2.45	0.49
1:AZ:187:LEU:HD12	1:AZ:190:ALA:HB2	1.94	0.49
1:Aa:19:LEU:HD12	2:Cb:48:SER:HB2	1.93	0.49
1:Ac:13:THR:C	1:Ac:14:GLU:HG3	2.38	0.49
1:Ag:48:LEU:HD23	1:Ag:198:THR:OG1	2.12	0.49
1:Ah:82:LEU:HD23	1:Ah:84:LEU:HD11	1.94	0.49
1:Ah:89:LYS:HG2	1:Al:128:VAL:CG1	2.42	0.49
1:Aj:13:THR:C	1:Aj:14:GLU:HG3	2.38	0.49
1:Aj:238:LYS:HA	3:Dl:171:SER:O	2.12	0.49
1:Al:48:LEU:HD23	1:Al:198:THR:OG1	2.12	0.49
1:An:79:PHE:CZ	3:Db:31:VAL:HG11	2.47	0.49
1:Ao:79:PHE:CZ	3:DS:31:VAL:HG11	2.47	0.49
1:BA:19:LEU:HD12	2:Co:48:SER:HB2	1.93	0.49
1:BD:40:VAL:HG22	1:BD:211:TYR:HE1	1.77	0.49
1:BF:238:LYS:HA	3:EB:171:SER:O	2.12	0.49
1:BH:50:GLY:O	1:BH:131:GLN:NE2	2.43	0.49
1:BH:238:LYS:HA	3:ED:171:SER:O	2.12	0.49
2:C0:158:PHE:O	2:C0:159:PRO:C	2.55	0.49
2:C1:84:PRO:HD2	2:C1:186:LEU:HD22	1.94	0.49
2:C1:153:GLN:HA	3:D1:53:PHE:HB2	1.94	0.49
2:C2:125:CYS:HB2	2:C2:199:LEU:HD11	1.94	0.49
2:C2:135:THR:HB	2:C2:139:ALA:CA	2.41	0.49
2:C5:226:LEU:CD2	3:D6:126:PRO:HG2	2.36	0.49
2:C6:84:PRO:HD2	2:C6:186:LEU:HD22	1.95	0.49
2:C6:226:LEU:CD2	3:D7:126:PRO:HG2	2.36	0.49
2:C7:153:GLN:HA	3:D7:53:PHE:HB2	1.94	0.49
2:C9:153:GLN:HA	3:D9:53:PHE:HB2	1.94	0.49
2:C9:186:LEU:O	2:C9:186:LEU:HD23	2.11	0.49
2:C9:227:PRO:HB3	3:Da:132:PRO:HB3	1.94	0.49
2:CA:227:PRO:HB3	3:DB:132:PRO:HB3	1.94	0.49
2:CC:149:ALA:O	2:CC:152:TYR:N	2.45	0.49
2:CD:152:TYR:HE1	3:DD:60:PRO:HB3	1.78	0.49
2:CE:110:VAL:CG1	2:CE:215:VAL:HA	2.43	0.49
2:CE:135:THR:HB	2:CE:139:ALA:CA	2.41	0.49
2:CG:149:ALA:O	2:CG:152:TYR:N	2.45	0.49
2:CH:115:ASN:CA	3:Ds:119:LYS:HZ3	2.25	0.49
2:CH:153:GLN:HA	3:DH:53:PHE:HB2	1.94	0.49
2:CI:158:PHE:O	2:CI:159:PRO:C	2.55	0.49
2:CI:226:LEU:CD2	3:DJ:126:PRO:HG2	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CJ:80:ILE:HD11	2:CJ:132:TYR:OH	2.11	0.49
2:CJ:115:ASN:CA	3:DA:119:LYS:HZ3	2.24	0.49
2:CL:48:SER:O	3:DM:159:PRO:HB2	2.12	0.49
2:CM:48:SER:O	3:DN:159:PRO:HB2	2.12	0.49
2:CN:84:PRO:HD2	2:CN:186:LEU:HD22	1.95	0.49
2:CN:153:GLN:HA	3:DN:53:PHE:HB2	1.94	0.49
2:CO:84:PRO:HD2	2:CO:186:LEU:HD22	1.95	0.49
2:CO:149:ALA:O	2:CO:152:TYR:N	2.45	0.49
2:CP:84:PRO:HD2	2:CP:186:LEU:HD22	1.94	0.49
2:CQ:110:VAL:CG1	2:CQ:215:VAL:HA	2.43	0.49
2:CR:115:ASN:CA	3:EE:119:LYS:HZ3	2.26	0.49
2:CR:152:TYR:HE1	3:DR:60:PRO:HB3	1.78	0.49
2:CU:153:GLN:HA	3:DU:53:PHE:HB2	1.93	0.49
2:CW:227:PRO:HB3	3:DX:132:PRO:HB3	1.94	0.49
2:CX:149:ALA:O	2:CX:152:TYR:N	2.45	0.49
2:CY:158:PHE:O	2:CY:159:PRO:C	2.55	0.49
2:CZ:48:SER:O	3:D0:159:PRO:HB2	2.12	0.49
2:CZ:140:LEU:HD22	2:CZ:190:ASN:OD1	2.12	0.49
2:Ca:80:ILE:HD11	2:Ca:132:TYR:OH	2.11	0.49
2:Cb:149:ALA:O	2:Cb:152:TYR:N	2.45	0.49
2:Cd:84:PRO:HD2	2:Cd:186:LEU:HD22	1.94	0.49
2:Cd:115:ASN:CA	3:D4:119:LYS:HZ3	2.25	0.49
2:Cf:80:ILE:HD11	2:Cf:132:TYR:OH	2.11	0.49
2:Cf:158:PHE:O	2:Cf:159:PRO:C	2.55	0.49
2:Cf:223:ASN:ND2	2:Cf:223:ASN:N	2.60	0.49
2:Ci:223:ASN:ND2	2:Ci:223:ASN:N	2.61	0.49
2:Cl:115:ASN:CA	3:D8:119:LYS:HZ3	2.24	0.49
2:Cl:227:PRO:HB3	3:Dm:132:PRO:HB3	1.94	0.49
2:Cm:149:ALA:O	2:Cm:152:TYR:N	2.45	0.49
2:Cm:158:PHE:O	2:Cm:159:PRO:C	2.55	0.49
2:Cm:227:PRO:HB3	3:Dn:132:PRO:HB3	1.94	0.49
2:Co:135:THR:HB	2:Co:139:ALA:CA	2.41	0.49
2:Cp:158:PHE:O	2:Cp:159:PRO:C	2.55	0.49
2:Cr:135:THR:HB	2:Cr:139:ALA:CA	2.41	0.49
2:Cr:140:LEU:HD22	2:Cr:190:ASN:OD1	2.12	0.49
2:Cr:227:PRO:HB3	3:Ds:132:PRO:HB3	1.94	0.49
2:Cs:152:TYR:HE1	3:Ds:60:PRO:HB3	1.78	0.49
2:Ct:125:CYS:HB2	2:Ct:199:LEU:HD11	1.94	0.49
2:Cu:125:CYS:HB2	2:Cu:199:LEU:HD11	1.94	0.49
2:Cv:84:PRO:HD2	2:Cv:186:LEU:HD22	1.94	0.49
2:Cx:149:ALA:O	2:Cx:152:TYR:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D0:84:GLU:CD	3:D0:84:GLU:H	2.21	0.49
3:D1:1:ALA:HB1	3:D3:20:ASP:OD2	2.12	0.49
3:D1:56:ILE:N	3:D1:56:ILE:CD1	2.75	0.49
3:D1:135:ARG:O	3:D1:138:ALA:N	2.45	0.49
3:D2:97:PHE:CE1	3:D2:216:LEU:HD23	2.47	0.49
3:D4:80:LEU:HD12	3:D4:80:LEU:H	1.77	0.49
3:D5:56:ILE:N	3:D5:56:ILE:CD1	2.75	0.49
3:D5:60:PRO:O	3:D5:61:TYR:HB3	2.11	0.49
3:D5:135:ARG:O	3:D5:138:ALA:N	2.45	0.49
3:D7:56:ILE:N	3:D7:56:ILE:CD1	2.75	0.49
3:D7:75:GLN:HG3	3:D7:184:GLN:HG2	1.93	0.49
3:DK:20:ASP:OD2	3:DN:1:ALA:HB1	2.12	0.49
3:DK:102:GLY:HA3	3:DK:214:PHE:HA	1.93	0.49
3:DL:97:PHE:CE1	3:DL:216:LEU:HD23	2.47	0.49
3:DL:103:SER:HB3	3:DL:159:PRO:CA	2.35	0.49
3:DN:56:ILE:N	3:DN:56:ILE:CD1	2.75	0.49
3:DP:56:ILE:N	3:DP:56:ILE:CD1	2.75	0.49
3:DQ:20:ASP:OD2	3:DT:1:ALA:HB1	2.12	0.49
3:DV:3:ILE:HG22	3:DV:4:ARG:N	2.27	0.49
3:DV:80:LEU:HD12	3:DV:80:LEU:H	1.77	0.49
3:DY:121:LEU:HD23	3:DY:121:LEU:O	2.12	0.49
3:DZ:97:PHE:CE1	3:DZ:216:LEU:HD23	2.47	0.49
3:Dd:20:ASP:OD2	3:Dd:4:ARG:NH1	2.45	0.49
3:Dc:19:PRO:HG3	4:Fc:17:ASN:ND2	2.26	0.49
3:Dc:60:PRO:O	3:Dc:61:TYR:HB3	2.11	0.49
3:Dc:80:LEU:HD12	3:Dc:80:LEU:H	1.77	0.49
3:Df:75:GLN:HG3	3:Df:184:GLN:HG2	1.93	0.49
3:Di:135:ARG:O	3:Di:138:ALA:N	2.45	0.49
3:Dj:1:ALA:HB1	3:Dl:20:ASP:OD2	2.12	0.49
3:Do:20:ASP:OD2	3:Dr:1:ALA:HB1	2.12	0.49
3:Dp:84:GLU:CD	3:Dp:84:GLU:H	2.21	0.49
3:Dp:121:LEU:HD23	3:Dp:121:LEU:O	2.12	0.49
3:Dq:19:PRO:HG3	4:Fq:17:ASN:ND2	2.26	0.49
3:Ds:3:ILE:HG22	3:Ds:4:ARG:N	2.27	0.49
3:Ds:56:ILE:N	3:Ds:56:ILE:CD1	2.75	0.49
3:Ds:97:PHE:CE1	3:Ds:216:LEU:HD23	2.47	0.49
3:Ds:121:LEU:HD23	3:Ds:121:LEU:O	2.12	0.49
3:Ds:135:ARG:O	3:Ds:138:ALA:N	2.45	0.49
3:EB:1:ALA:HB1	3:ED:20:ASP:OD2	2.12	0.49
3:EC:102:GLY:HA3	3:EC:214:PHE:HA	1.93	0.49
3:EC:121:LEU:HD23	3:EC:121:LEU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:121:LEU:HD23	3:EE:121:LEU:O	2.12	0.49
4:FA:20:SER:HA	4:FE:25:PHE:O	2.12	0.49
4:FP:20:SER:HA	4:FT:25:PHE:O	2.12	0.49
4:FR:25:PHE:O	4:FS:20:SER:HA	2.12	0.49
4:Fc:25:PHE:O	4:Fd:20:SER:HA	2.12	0.49
4:Fj:25:PHE:O	4:Fk:20:SER:HA	2.12	0.49
4:Fl:25:PHE:O	4:Fm:20:SER:HA	2.12	0.49
4:Fw:25:PHE:O	4:Fx:20:SER:HA	2.12	0.49
1:A2:79:PHE:CZ	3:D3:31:VAL:HG11	2.47	0.49
1:A2:238:LYS:HA	3:D3:171:SER:O	2.12	0.49
1:A4:187:LEU:HD12	1:A4:190:ALA:HB2	1.94	0.49
1:A5:238:LYS:HA	3:D6:171:SER:O	2.12	0.49
1:AC:50:GLY:O	1:AC:131:GLN:NE2	2.43	0.49
1:AC:238:LYS:HA	3:DC:171:SER:O	2.12	0.49
1:AD:79:PHE:CZ	3:DD:31:VAL:HG11	2.47	0.49
1:AD:187:LEU:HD12	1:AD:190:ALA:HB2	1.94	0.49
1:AI:107:PHE:HE1	1:AI:196:LEU:HB2	1.76	0.49
1:AK:48:LEU:HD23	1:AK:198:THR:OG1	2.12	0.49
1:AK:89:LYS:HG2	1:AO:128:VAL:CG1	2.42	0.49
1:AM:150:ARG:HE	1:AM:150:ARG:H	1.59	0.49
1:AN:82:LEU:HD23	1:AN:84:LEU:HD11	1.94	0.49
1:AN:128:VAL:CG1	1:AO:89:LYS:HG2	2.42	0.49
1:AO:48:LEU:HD23	1:AO:198:THR:OG1	2.12	0.49
1:AQ:113:THR:O	1:AQ:114:LYS:C	2.55	0.49
1:AS:19:LEU:HD12	2:CS:48:SER:HB2	1.93	0.49
1:AT:187:LEU:HD12	1:AT:190:ALA:HB2	1.94	0.49
1:AT:238:LYS:HA	3:DU:171:SER:O	2.12	0.49
1:AU:40:VAL:HG22	1:AU:211:TYR:HE1	1.77	0.49
1:AU:171:TYR:N	1:AU:185:ASN:OD1	2.45	0.49
1:AU:238:LYS:HA	3:DV:171:SER:O	2.12	0.49
1:AV:13:THR:C	1:AV:14:GLU:HG3	2.37	0.49
1:AV:30:VAL:CG1	1:AV:218:MET:HE3	2.33	0.49
1:AW:13:THR:C	1:AW:14:GLU:HG3	2.38	0.49
1:AW:107:PHE:HE1	1:AW:196:LEU:HB2	1.76	0.49
1:AW:113:THR:O	1:AW:114:LYS:C	2.55	0.49
1:AY:171:TYR:N	1:AY:185:ASN:OD1	2.45	0.49
1:Aa:128:VAL:CG1	1:Ab:89:LYS:HG2	2.42	0.49
1:Ab:48:LEU:HD23	1:Ab:198:THR:OG1	2.11	0.49
1:Ab:171:TYR:N	1:Ab:185:ASN:OD1	2.45	0.49
1:Ad:79:PHE:CZ	3:Df:31:VAL:HG11	2.47	0.49
1:Ag:13:THR:C	1:Ag:14:GLU:HG3	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:128:VAL:CG1	1:Al:89:LYS:HG2	2.42	0.49
1:Al:19:LEU:HD12	2:Cm:48:SER:HB2	1.93	0.49
1:Al:187:LEU:HD12	1:Al:190:ALA:HB2	1.94	0.49
1:Am:89:LYS:HG2	1:BD:128:VAL:CG1	2.42	0.49
1:BA:113:THR:O	1:BA:114:LYS:C	2.55	0.49
1:BA:187:LEU:HD12	1:BA:190:ALA:HB2	1.94	0.49
1:BB:238:LYS:HA	3:Dq:171:SER:O	2.12	0.49
1:BC:79:PHE:CZ	3:Dr:31:VAL:HG11	2.47	0.49
1:BC:171:TYR:N	1:BC:185:ASN:OD1	2.45	0.49
1:BE:79:PHE:CZ	3:EA:31:VAL:HG11	2.47	0.49
1:BG:113:THR:O	1:BG:114:LYS:C	2.55	0.49
2:C0:48:SER:O	3:D1:159:PRO:HB2	2.12	0.49
2:C0:223:ASN:ND2	2:C0:223:ASN:N	2.60	0.49
2:C4:84:PRO:HD2	2:C4:186:LEU:HD22	1.95	0.49
2:C4:115:ASN:CA	3:EC:119:LYS:HZ3	2.24	0.49
2:C5:140:LEU:HD22	2:C5:190:ASN:OD1	2.12	0.49
2:C5:149:ALA:O	2:C5:152:TYR:N	2.45	0.49
2:C6:149:ALA:O	2:C6:152:TYR:N	2.45	0.49
2:C6:227:PRO:HB3	3:D7:132:PRO:HB3	1.94	0.49
2:C8:152:TYR:CE1	3:D8:60:PRO:HG3	2.48	0.49
2:C9:152:TYR:CE1	3:D9:60:PRO:HG3	2.48	0.49
2:CA:110:VAL:CG1	2:CA:213:MET:HE3	2.42	0.49
2:CD:153:GLN:HA	3:DD:53:PHE:HB2	1.94	0.49
2:CD:227:PRO:HB3	3:DE:132:PRO:HB3	1.94	0.49
2:CF:152:TYR:HE1	3:DF:60:PRO:HB3	1.78	0.49
2:CG:223:ASN:H	2:CG:223:ASN:ND2	2.01	0.49
2:CI:48:SER:O	3:DJ:159:PRO:HB2	2.12	0.49
2:CI:110:VAL:CG1	2:CI:215:VAL:HA	2.43	0.49
2:CJ:125:CYS:HB2	2:CJ:199:LEU:HD11	1.94	0.49
2:CK:110:VAL:CG1	2:CK:213:MET:HE3	2.42	0.49
2:CK:149:ALA:O	2:CK:152:TYR:N	2.45	0.49
2:CN:110:VAL:CG1	2:CN:213:MET:HE3	2.42	0.49
2:CP:149:ALA:O	2:CP:152:TYR:N	2.45	0.49
2:CQ:149:ALA:O	2:CQ:152:TYR:N	2.45	0.49
2:CT:48:SER:O	3:DP:159:PRO:HB2	2.12	0.49
2:CV:223:ASN:ND2	2:CV:223:ASN:N	2.60	0.49
2:CW:84:PRO:HD2	2:CW:186:LEU:HD22	1.95	0.49
2:CX:115:ASN:CA	3:Dr:119:LYS:HZ3	2.25	0.49
2:CZ:149:ALA:O	2:CZ:152:TYR:N	2.45	0.49
2:Cc:140:LEU:HD22	2:Cc:190:ASN:OD1	2.12	0.49
2:Ce:227:PRO:HB3	3:Df:132:PRO:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cf:125:CYS:HB2	2:Cf:199:LEU:HD11	1.94	0.49
2:Ch:110:VAL:CG1	2:Ch:215:VAL:HA	2.43	0.49
2:Ci:140:LEU:HD22	2:Ci:190:ASN:OD1	2.12	0.49
2:Cj:115:ASN:CA	3:DM:119:LYS:HZ3	2.25	0.49
2:Cj:153:GLN:HA	3:Dj:53:PHE:HB2	1.94	0.49
2:Cl:158:PHE:O	2:Cl:159:PRO:C	2.55	0.49
2:Cl:223:ASN:ND2	2:Cl:223:ASN:N	2.60	0.49
2:Cm:135:THR:HB	2:Cm:139:ALA:CA	2.41	0.49
2:Co:153:GLN:HA	3:Do:53:PHE:HB2	1.94	0.49
2:Co:227:PRO:HB3	3:Dp:132:PRO:HB3	1.94	0.49
2:Cp:110:VAL:CG1	2:Cp:215:VAL:HA	2.43	0.49
2:Cp:110:VAL:CG1	2:Cp:213:MET:HE3	2.42	0.49
2:Cp:152:TYR:CE1	3:Dp:60:PRO:HG3	2.48	0.49
2:Cq:48:SER:O	3:Dr:159:PRO:HB2	2.12	0.49
2:Cs:115:ASN:CA	3:EA:119:LYS:HZ3	2.25	0.49
2:Cu:140:LEU:HD22	2:Cu:190:ASN:OD1	2.12	0.49
2:Cu:152:TYR:HE1	3:EB:60:PRO:HB3	1.78	0.49
2:Cv:110:VAL:CG1	2:Cv:213:MET:HE3	2.42	0.49
3:D2:20:ASP:OD2	3:DZ:4:ARG:NH1	2.45	0.49
3:D4:20:ASP:OD2	3:D6:4:ARG:NH1	2.45	0.49
3:D5:97:PHE:CE1	3:D5:216:LEU:HD23	2.48	0.49
3:D6:3:ILE:HG22	3:D6:4:ARG:N	2.27	0.49
3:D7:19:PRO:HG3	4:F7:17:ASN:ND2	2.26	0.49
3:D7:102:GLY:HA3	3:D7:214:PHE:HA	1.93	0.49
3:D9:4:ARG:NH1	3:Dc:20:ASP:OD2	2.45	0.49
3:DA:80:LEU:HD12	3:DA:80:LEU:H	1.77	0.49
3:DG:121:LEU:HD23	3:DG:121:LEU:O	2.12	0.49
3:DJ:56:ILE:N	3:DJ:56:ILE:CD1	2.75	0.49
3:DJ:84:GLU:H	3:DJ:84:GLU:CD	2.21	0.49
3:DJ:97:PHE:CE1	3:DJ:216:LEU:HD23	2.47	0.49
3:DL:4:ARG:NH1	3:DO:20:ASP:OD2	2.45	0.49
3:DL:135:ARG:O	3:DL:138:ALA:N	2.45	0.49
3:DM:20:ASP:OD2	3:DO:4:ARG:NH1	2.45	0.49
3:DM:42:ASN:HD22	3:DM:44:ILE:N	2.08	0.49
3:DO:135:ARG:O	3:DO:138:ALA:N	2.45	0.49
3:DR:80:LEU:HD12	3:DR:80:LEU:H	1.77	0.49
3:DS:3:ILE:HG22	3:DS:4:ARG:N	2.27	0.49
3:DT:3:ILE:HG22	3:DT:4:ARG:N	2.27	0.49
3:DU:97:PHE:CE1	3:DU:216:LEU:HD23	2.47	0.49
3:DX:80:LEU:HD12	3:DX:80:LEU:H	1.77	0.49
3:Da:1:ALA:HB1	3:Dc:20:ASP:OD2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Db:135:ARG:O	3:Db:138:ALA:N	2.45	0.49
3:Dg:80:LEU:HD12	3:Dg:80:LEU:H	1.77	0.49
3:Dg:84:GLU:CD	3:Dg:84:GLU:H	2.21	0.49
3:Dg:97:PHE:CE1	3:Dg:216:LEU:HD23	2.47	0.49
3:Di:75:GLN:HG3	3:Di:184:GLN:HG2	1.93	0.49
3:Dm:97:PHE:CE1	3:Dm:216:LEU:HD23	2.47	0.49
3:Dn:97:PHE:CE1	3:Dn:216:LEU:HD23	2.47	0.49
3:Do:20:ASP:OD2	3:Dq:4:ARG:NH1	2.45	0.49
3:EB:4:ARG:NH1	3:EE:20:ASP:OD2	2.45	0.49
3:EC:80:LEU:HD12	3:EC:80:LEU:H	1.77	0.49
4:F9:25:PHE:O	4:Fa:20:SER:HA	2.12	0.49
4:Fm:25:PHE:O	4:Fh:20:SER:HA	2.12	0.49
1:A0:13:THR:C	1:A0:14:GLU:HG3	2.38	0.49
1:A1:13:THR:C	1:A1:14:GLU:HG3	2.38	0.49
1:A1:82:LEU:HD23	1:A1:84:LEU:HD11	1.94	0.49
1:A5:30:VAL:CG1	1:A5:218:MET:HE3	2.34	0.49
1:A5:50:GLY:O	1:A5:131:GLN:NE2	2.43	0.49
1:A7:79:PHE:CZ	3:D8:31:VAL:HG11	2.47	0.49
1:A7:150:ARG:HE	1:A7:150:ARG:H	1.59	0.49
1:A9:128:VAL:CG1	1:An:89:LYS:HG2	2.42	0.49
1:AA:42:THR:OG1	1:AE:121:LEU:HD23	2.13	0.49
1:AA:150:ARG:HE	1:AA:150:ARG:H	1.59	0.49
1:AB:40:VAL:HG22	1:AB:211:TYR:HE1	1.77	0.49
1:AI:19:LEU:HD12	2:CH:48:SER:HB2	1.93	0.49
1:AK:79:PHE:CZ	3:DK:31:VAL:HG11	2.47	0.49
1:AK:170:PHE:CD2	1:AK:222:ARG:CZ	2.87	0.49
1:AM:82:LEU:HD23	1:AM:84:LEU:HD11	1.94	0.49
1:AN:238:LYS:HA	3:DN:171:SER:O	2.12	0.49
1:AP:42:THR:OG1	1:AS:121:LEU:HD23	2.13	0.49
1:AP:79:PHE:CZ	3:DP:31:VAL:HG11	2.47	0.49
1:AS:30:VAL:CG1	1:AS:218:MET:HE3	2.33	0.49
1:AT:82:LEU:HD23	1:AT:84:LEU:HD11	1.94	0.49
1:AV:121:LEU:HD23	1:AW:42:THR:OG1	2.13	0.49
1:AY:187:LEU:HD12	1:AY:190:ALA:HB2	1.94	0.49
1:Aa:79:PHE:CZ	3:Dc:31:VAL:HG11	2.47	0.49
1:Aa:170:PHE:CD2	1:Aa:222:ARG:CZ	2.87	0.49
1:Ac:121:LEU:HD23	1:Ad:42:THR:OG1	2.13	0.49
1:Af:128:VAL:CG1	1:Ag:89:LYS:HG2	2.42	0.49
1:Af:239:PHE:CD1	3:Dh:170:TYR:CD2	2.96	0.49
1:Ag:79:PHE:CZ	3:Di:31:VAL:HG11	2.47	0.49
1:Ai:82:LEU:HD23	1:Ai:84:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aj:187:LEU:HD12	1:Aj:190:ALA:HB2	1.94	0.49
1:Ak:187:LEU:HD12	1:Ak:190:ALA:HB2	1.94	0.49
1:Al:13:THR:C	1:Al:14:GLU:HG3	2.38	0.49
1:Am:40:VAL:HG22	1:Am:211:TYR:HE1	1.77	0.49
1:Am:238:LYS:HA	3:Do:171:SER:O	2.12	0.49
1:An:19:LEU:HD12	2:Ca:48:SER:HB2	1.93	0.49
1:Ao:13:THR:C	1:Ao:14:GLU:HG3	2.38	0.49
1:BA:128:VAL:CG1	1:BB:89:LYS:HG2	2.42	0.49
1:BB:128:VAL:CG1	1:BC:89:LYS:HG2	2.42	0.49
1:BC:40:VAL:HG22	1:BC:211:TYR:HE1	1.77	0.49
1:BF:101:PHE:CD2	1:BF:143:VAL:HG11	2.44	0.49
1:BH:107:PHE:HE1	1:BH:196:LEU:HB2	1.76	0.49
1:BI:13:THR:C	1:BI:14:GLU:HG3	2.38	0.49
2:C0:110:VAL:CG1	2:C0:213:MET:HE3	2.42	0.49
2:C0:125:CYS:HB2	2:C0:199:LEU:HD11	1.94	0.49
2:C2:153:GLN:HA	3:D2:53:PHE:HB2	1.94	0.49
2:C4:153:GLN:HA	3:D4:53:PHE:HB2	1.94	0.49
2:C6:110:VAL:CG1	2:C6:215:VAL:HA	2.43	0.49
2:C6:125:CYS:HB2	2:C6:199:LEU:HD11	1.94	0.49
2:C6:152:TYR:CE1	3:D6:60:PRO:HG3	2.48	0.49
2:C9:125:CYS:HB2	2:C9:199:LEU:HD11	1.94	0.49
2:C9:149:ALA:O	2:C9:152:TYR:N	2.45	0.49
2:CA:110:VAL:CG1	2:CA:215:VAL:HA	2.43	0.49
2:CB:227:PRO:HB3	3:DC:132:PRO:HB3	1.94	0.49
2:CC:223:ASN:ND2	2:CC:223:ASN:N	2.60	0.49
2:CE:48:SER:O	3:DA:159:PRO:HB2	2.12	0.49
2:CG:152:TYR:CE1	3:DG:60:PRO:HG3	2.48	0.49
2:CH:152:TYR:CE1	3:DH:60:PRO:HG3	2.48	0.49
2:CH:152:TYR:HE1	3:DH:60:PRO:HB3	1.78	0.49
2:CH:158:PHE:O	2:CH:159:PRO:C	2.55	0.49
2:CI:149:ALA:O	2:CI:152:TYR:N	2.45	0.49
2:CJ:48:SER:O	3:DF:159:PRO:HB2	2.12	0.49
2:CJ:227:PRO:HB3	3:DF:132:PRO:HB3	1.94	0.49
2:CK:110:VAL:CG1	2:CK:215:VAL:HA	2.43	0.49
2:CM:227:PRO:HB3	3:DN:132:PRO:HB3	1.94	0.49
2:CN:48:SER:O	3:DO:159:PRO:HB2	2.12	0.49
2:CO:110:VAL:CG1	2:CO:213:MET:HE3	2.42	0.49
2:CS:149:ALA:O	2:CS:152:TYR:N	2.45	0.49
2:CU:110:VAL:CG1	2:CU:215:VAL:HA	2.43	0.49
2:CU:158:PHE:O	2:CU:159:PRO:C	2.55	0.49
2:CV:48:SER:O	3:DW:159:PRO:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:115:ASN:CA	3:DJ:119:LYS:HZ3	2.25	0.49
2:CW:158:PHE:O	2:CW:159:PRO:C	2.55	0.49
2:CX:110:VAL:CG1	2:CX:215:VAL:HA	2.43	0.49
2:CY:110:VAL:CG1	2:CY:213:MET:HE3	2.42	0.49
2:CZ:110:VAL:CG1	2:CZ:213:MET:HE3	2.42	0.49
2:CZ:158:PHE:O	2:CZ:159:PRO:C	2.55	0.49
2:Ca:227:PRO:HB3	3:Db:132:PRO:HB3	1.94	0.49
2:Cb:135:THR:HB	2:Cb:139:ALA:CA	2.41	0.49
2:Cb:158:PHE:O	2:Cb:159:PRO:C	2.55	0.49
2:Cc:84:PRO:HD2	2:Cc:186:LEU:HD22	1.95	0.49
2:Cc:227:PRO:HB3	3:Dd:132:PRO:HB3	1.94	0.49
2:Ce:223:ASN:ND2	2:Ce:223:ASN:N	2.60	0.49
2:Cf:140:LEU:HD22	2:Cf:190:ASN:OD1	2.12	0.49
2:Cf:152:TYR:HE1	3:Df:60:PRO:HB3	1.78	0.49
2:Cf:227:PRO:HB3	3:Dg:132:PRO:HB3	1.94	0.49
2:Cg:152:TYR:CE1	3:Dg:60:PRO:HG3	2.48	0.49
2:Cl:149:ALA:O	2:Cl:152:TYR:N	2.45	0.49
2:Cm:48:SER:O	3:Dn:159:PRO:HB2	2.12	0.49
2:Cm:223:ASN:ND2	2:Cm:223:ASN:N	2.60	0.49
2:Cn:48:SER:O	3:Dj:159:PRO:HB2	2.12	0.49
2:Cn:115:ASN:CA	3:De:119:LYS:HZ3	2.26	0.49
2:Cn:152:TYR:CE1	3:Dn:60:PRO:HG3	2.48	0.49
2:Cw:48:SER:O	3:EE:159:PRO:HB2	2.12	0.49
2:Cx:84:PRO:HD2	2:Cx:186:LEU:HD22	1.95	0.49
3:D1:84:GLU:H	3:D1:84:GLU:CD	2.21	0.49
3:D3:97:PHE:CE1	3:D3:216:LEU:HD23	2.48	0.49
3:D4:20:ASP:OD2	3:D7:1:ALA:HB1	2.12	0.49
3:D6:84:GLU:CD	3:D6:84:GLU:H	2.21	0.49
3:D7:84:GLU:CD	3:D7:84:GLU:H	2.21	0.49
3:DF:20:ASP:OD2	3:DI:1:ALA:HB1	2.12	0.49
3:DF:75:GLN:HG3	3:DF:184:GLN:HG2	1.93	0.49
3:DH:97:PHE:CE1	3:DH:216:LEU:HD23	2.47	0.49
3:DI:80:LEU:HD12	3:DI:80:LEU:H	1.77	0.49
3:DL:20:ASP:OD2	3:DO:1:ALA:HB1	2.12	0.49
3:DL:121:LEU:HD23	3:DL:121:LEU:O	2.12	0.49
3:DN:3:ILE:HG22	3:DN:4:ARG:N	2.27	0.49
3:DN:75:GLN:HG3	3:DN:184:GLN:HG2	1.93	0.49
3:DN:121:LEU:HD23	3:DN:121:LEU:O	2.12	0.49
3:DP:4:ARG:NH1	3:DS:20:ASP:OD2	2.45	0.49
3:DQ:20:ASP:OD2	3:DS:4:ARG:NH1	2.45	0.49
3:DR:130:ALA:O	3:DR:131:ALA:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:1:ALA:HB1	3:DX:20:ASP:OD2	2.12	0.49
3:DW:84:GLU:CD	3:DW:84:GLU:H	2.21	0.49
3:DX:135:ARG:O	3:DX:138:ALA:N	2.45	0.49
3:DZ:56:ILE:N	3:DZ:56:ILE:CD1	2.75	0.49
3:DZ:121:LEU:HD23	3:DZ:121:LEU:O	2.12	0.49
3:Da:20:ASP:OD2	3:Dc:4:ARG:NH1	2.45	0.49
3:Da:20:ASP:OD2	3:Dd:1:ALA:HB1	2.12	0.49
3:Db:121:LEU:HD23	3:Db:121:LEU:O	2.12	0.49
3:Dc:75:GLN:HG3	3:Dc:184:GLN:HG2	1.93	0.49
3:Dc:97:PHE:CE1	3:Dc:216:LEU:HD23	2.47	0.49
3:Df:4:ARG:NH1	3:Di:20:ASP:OD2	2.45	0.49
3:Dj:4:ARG:NH1	3:Dm:20:ASP:OD2	2.45	0.49
3:Dj:19:PRO:HG3	4:Fj:17:ASN:ND2	2.26	0.49
3:Dj:135:ARG:O	3:Dj:138:ALA:N	2.45	0.49
3:Dl:42:ASN:HD22	3:Dl:44:ILE:HG22	1.65	0.49
3:Dl:101:ARG:HA	3:Dl:160:TYR:CE2	2.48	0.49
3:Do:1:ALA:HB1	3:Dq:20:ASP:OD2	2.12	0.49
3:Dq:135:ARG:O	3:Dq:138:ALA:N	2.45	0.49
3:Dr:3:ILE:HG22	3:Dr:4:ARG:N	2.27	0.49
3:EA:4:ARG:NH1	3:ED:20:ASP:OD2	2.45	0.49
3:EA:56:ILE:N	3:EA:56:ILE:CD1	2.75	0.49
3:EA:84:GLU:CD	3:EA:84:GLU:H	2.21	0.49
3:EA:101:ARG:HA	3:EA:160:TYR:CE2	2.48	0.49
3:ED:121:LEU:HD23	3:ED:121:LEU:O	2.12	0.49
4:FU:20:SER:HA	4:FY:25:PHE:O	2.12	0.49
1:A0:171:TYR:N	1:A0:185:ASN:OD1	2.45	0.49
1:A3:40:VAL:HG22	1:A3:211:TYR:HE1	1.77	0.49
1:A3:89:LYS:HG2	1:A7:128:VAL:CG1	2.42	0.49
1:A3:107:PHE:HE1	1:A3:196:LEU:HB2	1.76	0.49
1:A3:150:ARG:H	1:A3:150:ARG:HE	1.59	0.49
1:A4:48:LEU:HD23	1:A4:198:THR:OG1	2.12	0.49
1:A6:113:THR:O	1:A6:114:LYS:C	2.55	0.49
1:A7:107:PHE:HE1	1:A7:196:LEU:HB2	1.76	0.49
1:A7:113:THR:O	1:A7:114:LYS:C	2.55	0.49
1:A7:160:TYR:CE1	1:A7:167:VAL:HG23	2.48	0.49
1:A8:171:TYR:N	1:A8:185:ASN:OD1	2.45	0.49
1:A9:181:LYS:O	1:A9:182:ALA:HB2	2.11	0.49
1:AA:13:THR:C	1:AA:14:GLU:HG3	2.38	0.49
1:AA:121:LEU:HD23	1:AB:42:THR:OG1	2.13	0.49
1:AB:128:VAL:CG1	1:AC:89:LYS:HG2	2.42	0.49
1:AD:27:HIS:O	1:AD:33:LEU:HD21	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:40:VAL:HG22	1:AE:211:TYR:HE1	1.77	0.49
1:AE:48:LEU:HD23	1:AE:198:THR:OG1	2.12	0.49
1:AE:238:LYS:HA	3:DE:171:SER:O	2.12	0.49
1:AF:89:LYS:HG2	1:AJ:128:VAL:CG1	2.42	0.49
1:AI:43:LEU:N	1:AI:43:LEU:CD2	2.74	0.49
1:AK:128:VAL:CG1	1:AL:89:LYS:HG2	2.42	0.49
1:AL:13:THR:C	1:AL:14:GLU:HG3	2.38	0.49
1:AL:82:LEU:HD23	1:AL:84:LEU:HD11	1.94	0.49
1:AL:187:LEU:HD12	1:AL:190:ALA:HB2	1.94	0.49
1:AM:13:THR:C	1:AM:14:GLU:HG3	2.38	0.49
1:AO:160:TYR:CE1	1:AO:167:VAL:HG23	2.48	0.49
1:AP:82:LEU:HD23	1:AP:84:LEU:HD11	1.94	0.49
1:AP:89:LYS:HG2	1:AS:128:VAL:CG1	2.42	0.49
1:AR:121:LEU:HD23	1:Ao:42:THR:OG1	2.13	0.49
1:AR:238:LYS:HA	3:DR:171:SER:O	2.12	0.49
1:AS:48:LEU:HD23	1:AS:198:THR:OG1	2.11	0.49
1:AS:187:LEU:HD12	1:AS:190:ALA:HB2	1.94	0.49
1:AT:40:VAL:HG22	1:AT:211:TYR:HE1	1.77	0.49
1:AU:82:LEU:HD23	1:AU:84:LEU:HD11	1.94	0.49
1:AV:48:LEU:HD23	1:AV:198:THR:OG1	2.12	0.49
1:AX:40:VAL:HG22	1:AX:211:TYR:HE1	1.77	0.49
1:AY:50:GLY:O	1:AY:131:GLN:NE2	2.43	0.49
1:Ac:113:THR:O	1:Ac:114:LYS:C	2.55	0.49
1:Ae:82:LEU:HD23	1:Ae:84:LEU:HD11	1.94	0.49
1:Ag:160:TYR:CE1	1:Ag:167:VAL:HG23	2.48	0.49
1:Ag:170:PHE:CD2	1:Ag:222:ARG:CZ	2.87	0.49
1:Ah:19:LEU:HD12	2:Cn:48:SER:HB2	1.93	0.49
1:Ah:42:THR:OG1	1:Al:121:LEU:HD23	2.13	0.49
1:Ai:113:THR:O	1:Ai:114:LYS:C	2.54	0.49
1:Ai:128:VAL:CG1	1:Aj:89:LYS:HG2	2.42	0.49
1:Ai:238:LYS:HA	3:Dk:171:SER:O	2.12	0.49
1:Aj:101:PHE:CD2	1:Aj:143:VAL:HG11	2.44	0.49
1:Am:171:TYR:N	1:Am:185:ASN:OD1	2.45	0.49
1:Ao:40:VAL:HG22	1:Ao:211:TYR:HE1	1.77	0.49
1:BA:238:LYS:HA	3:Dp:171:SER:O	2.12	0.49
1:BB:50:GLY:O	1:BB:131:GLN:NE2	2.43	0.49
1:BE:42:THR:OG1	1:BI:121:LEU:HD23	2.13	0.49
1:BF:121:LEU:HD23	1:BG:42:THR:OG1	2.13	0.49
1:BH:128:VAL:CG1	1:BI:89:LYS:HG2	2.42	0.49
1:BH:160:TYR:CE1	1:BH:167:VAL:HG23	2.48	0.49
2:C2:48:SER:O	3:D3:159:PRO:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:149:ALA:O	2:C2:152:TYR:N	2.45	0.49
2:C3:158:PHE:O	2:C3:159:PRO:C	2.55	0.49
2:C3:227:PRO:HB3	3:DZ:132:PRO:HB3	1.94	0.49
2:C4:163:LEU:HD21	2:C4:169:SER:C	2.36	0.49
2:C5:84:PRO:HD2	2:C5:186:LEU:HD22	1.94	0.49
2:C6:80:ILE:HD11	2:C6:132:TYR:OH	2.11	0.49
2:C6:153:GLN:HA	3:D6:53:PHE:HB2	1.94	0.49
2:C8:152:TYR:HE1	3:D8:60:PRO:HB3	1.78	0.49
2:C8:226:LEU:CD2	3:D4:126:PRO:HG2	2.36	0.49
2:C8:227:PRO:HB3	3:D4:132:PRO:HB3	1.94	0.49
2:C9:152:TYR:HE1	3:D9:60:PRO:HB3	1.77	0.49
2:C9:223:ASN:ND2	2:C9:223:ASN:N	2.61	0.49
2:CA:125:CYS:HB2	2:CA:199:LEU:HD11	1.94	0.49
2:CB:223:ASN:ND2	2:CB:223:ASN:N	2.60	0.49
2:CC:152:TYR:CE1	3:DC:60:PRO:HG3	2.48	0.49
2:CC:227:PRO:HB3	3:DD:132:PRO:HB3	1.94	0.49
2:CD:104:VAL:HG22	2:CD:222:VAL:HG13	1.92	0.49
2:CD:115:ASN:CA	3:D7:119:LYS:HZ3	2.24	0.49
2:CF:152:TYR:CE1	3:DF:60:PRO:HG3	2.48	0.49
2:CF:158:PHE:O	2:CF:159:PRO:C	2.55	0.49
2:CH:226:LEU:CD2	3:DI:126:PRO:HG2	2.36	0.49
2:CI:104:VAL:HG22	2:CI:222:VAL:HG13	1.92	0.49
2:CI:110:VAL:CG1	2:CI:213:MET:HE3	2.42	0.49
2:CI:140:LEU:HD22	2:CI:190:ASN:OD1	2.12	0.49
2:CJ:140:LEU:HD22	2:CJ:190:ASN:OD1	2.12	0.49
2:CK:152:TYR:CE1	3:DK:60:PRO:HG3	2.48	0.49
2:CL:227:PRO:HB3	3:DM:132:PRO:HB3	1.94	0.49
2:CM:140:LEU:HD22	2:CM:190:ASN:OD1	2.12	0.49
2:CN:158:PHE:O	2:CN:159:PRO:C	2.55	0.49
2:CO:152:TYR:CE1	3:DO:60:PRO:HG3	2.48	0.49
2:CP:110:VAL:CG1	2:CP:213:MET:HE3	2.42	0.49
2:CP:158:PHE:O	2:CP:159:PRO:C	2.55	0.49
2:CQ:48:SER:O	3:DR:159:PRO:HB2	2.12	0.49
2:CQ:227:PRO:HB3	3:DR:132:PRO:HB3	1.94	0.49
2:CR:149:ALA:O	2:CR:152:TYR:N	2.45	0.49
2:CS:152:TYR:HE1	3:DS:60:PRO:HB3	1.78	0.49
2:CU:125:CYS:HB2	2:CU:199:LEU:HD11	1.94	0.49
2:CV:125:CYS:HB2	2:CV:199:LEU:HD11	1.94	0.49
2:CV:200:SER:HA	3:DV:61:TYR:CE2	2.48	0.49
2:CW:223:ASN:ND2	2:CW:223:ASN:N	2.60	0.49
2:CX:152:TYR:CE1	3:DX:60:PRO:HG3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:140:LEU:HD22	2:CY:190:ASN:OD1	2.12	0.49
2:CY:152:TYR:HE1	3:DY:60:PRO:HB3	1.78	0.49
2:CZ:84:PRO:HD2	2:CZ:186:LEU:HD22	1.94	0.49
2:Cc:125:CYS:HB2	2:Cc:199:LEU:HD11	1.94	0.49
2:Ce:49:ASP:CB	3:Df:161:SER:HB3	2.40	0.49
2:Ce:84:PRO:HD2	2:Ce:186:LEU:HD22	1.95	0.49
2:Cf:152:TYR:CE1	3:Df:60:PRO:HG3	2.48	0.49
2:Cg:149:ALA:O	2:Cg:152:TYR:N	2.45	0.49
2:Ch:46:THR:CG2	3:De:165:ASP:HA	2.38	0.49
2:Ch:135:THR:HB	2:Ch:139:ALA:CA	2.41	0.49
2:Ch:227:PRO:HB3	3:De:132:PRO:HB3	1.94	0.49
2:Ch:110:VAL:CG1	2:Ch:213:MET:HE3	2.42	0.49
2:Cn:110:VAL:CG1	2:Cn:215:VAL:HA	2.43	0.49
2:Co:149:ALA:O	2:Co:152:TYR:N	2.45	0.49
2:Co:152:TYR:CE1	3:Do:60:PRO:HG3	2.48	0.49
2:Cp:140:LEU:HD22	2:Cp:190:ASN:OD1	2.12	0.49
2:Cr:110:VAL:CG1	2:Cr:215:VAL:HA	2.43	0.49
2:Cr:152:TYR:HE1	3:Dr:60:PRO:HB3	1.78	0.49
2:Cr:158:PHE:O	2:Cr:159:PRO:C	2.55	0.49
2:Ct:153:GLN:HA	3:EA:53:PHE:HB2	1.93	0.49
2:Cu:110:VAL:CG1	2:Cu:215:VAL:HA	2.43	0.49
2:Cv:200:SER:HA	3:EC:61:TYR:CE2	2.48	0.49
2:Cv:223:ASN:ND2	2:Cv:223:ASN:N	2.60	0.49
2:Cw:149:ALA:O	2:Cw:152:TYR:N	2.45	0.49
2:Cw:158:PHE:O	2:Cw:159:PRO:C	2.55	0.49
2:Cx:152:TYR:HE1	3:EE:60:PRO:HB3	1.78	0.49
3:D2:103:SER:HB3	3:D2:159:PRO:CA	2.35	0.49
3:D3:56:ILE:N	3:D3:56:ILE:CD1	2.75	0.49
3:D6:20:ASP:OD2	3:D8:4:ARG:NH1	2.45	0.49
3:D7:101:ARG:HA	3:D7:160:TYR:CE2	2.48	0.49
3:D8:3:ILE:HG22	3:D8:4:ARG:N	2.27	0.49
3:D8:80:LEU:HD12	3:D8:80:LEU:H	1.78	0.49
3:DA:20:ASP:OD2	3:DD:1:ALA:HB1	2.12	0.49
3:DB:20:ASP:OD2	3:DD:4:ARG:NH1	2.45	0.49
3:DM:3:ILE:HG22	3:DM:4:ARG:N	2.27	0.49
3:DM:135:ARG:O	3:DM:138:ALA:N	2.45	0.49
3:DU:135:ARG:O	3:DU:138:ALA:N	2.45	0.49
3:Db:3:ILE:HG22	3:Db:4:ARG:N	2.27	0.49
3:Db:19:PRO:HG3	4:Fb:17:ASN:ND2	2.26	0.49
3:Dc:101:ARG:HA	3:Dc:160:TYR:CE2	2.48	0.49
3:Df:42:ASN:HD22	3:Df:44:ILE:N	2.08	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Di:101:ARG:HA	3:Di:160:TYR:CE2	2.48	0.49
3:Dj:103:SER:HB3	3:Dj:159:PRO:CA	2.35	0.49
3:Dj:121:LEU:HD23	3:Dj:121:LEU:O	2.12	0.49
3:Dk:103:SER:HB3	3:Dk:159:PRO:CA	2.35	0.49
3:Dl:20:ASP:OD2	3:Dn:4:ARG:NH1	2.45	0.49
3:Dp:20:ASP:OD2	3:Dr:4:ARG:NH1	2.45	0.49
3:Dr:97:PHE:CE1	3:Dr:216:LEU:HD23	2.47	0.49
3:EE:135:ARG:O	3:EE:138:ALA:N	2.45	0.49
4:FV:25:PHE:O	4:FW:20:SER:HA	2.12	0.49
4:Fe:20:SER:HA	4:Fi:25:PHE:O	2.12	0.49
4:Fr:25:PHE:O	4:Fs:20:SER:HA	2.12	0.49
4:Ft:20:SER:HA	4:Fx:25:PHE:O	2.12	0.49
1:A0:42:THR:OG1	1:AZ:121:LEU:HD23	2.13	0.49
1:A0:160:TYR:CE1	1:A0:167:VAL:HG23	2.48	0.49
1:A1:79:PHE:CZ	3:D2:31:VAL:HG11	2.47	0.49
1:A1:113:THR:O	1:A1:114:LYS:C	2.55	0.49
1:A2:128:VAL:CG1	1:AY:89:LYS:HG2	2.42	0.49
1:A3:238:LYS:HA	3:D4:171:SER:O	2.12	0.49
1:A4:82:LEU:HD23	1:A4:84:LEU:HD11	1.94	0.49
1:A5:48:LEU:HD23	1:A5:198:THR:OG1	2.12	0.49
1:A5:128:VAL:CG1	1:A6:89:LYS:HG2	2.42	0.49
1:A5:187:LEU:HD12	1:A5:190:ALA:HB2	1.94	0.49
1:A5:237:HIS:O	3:D6:171:SER:HB2	2.13	0.49
1:A7:13:THR:C	1:A7:14:GLU:HG3	2.38	0.49
1:A8:42:THR:OG1	1:Ab:121:LEU:HD23	2.13	0.49
1:A8:89:LYS:HG2	1:Ab:128:VAL:CG1	2.42	0.49
1:AB:13:THR:C	1:AB:14:GLU:HG3	2.38	0.49
1:AC:121:LEU:HD23	1:AD:42:THR:OG1	2.13	0.49
1:AE:150:ARG:HE	1:AE:150:ARG:H	1.60	0.49
1:AF:40:VAL:HG22	1:AF:211:TYR:HE1	1.77	0.49
1:AF:128:VAL:CG1	1:AG:89:LYS:HG2	2.42	0.49
1:AG:121:LEU:HD23	1:AH:42:THR:OG1	2.13	0.49
1:AL:19:LEU:HD12	2:CK:48:SER:HB2	1.93	0.49
1:AM:128:VAL:CG1	1:AN:89:LYS:HG2	2.42	0.49
1:AN:27:HIS:O	1:AN:33:LEU:HD21	2.13	0.49
1:AN:121:LEU:HD23	1:AO:42:THR:OG1	2.13	0.49
1:AN:187:LEU:HD12	1:AN:190:ALA:HB2	1.94	0.49
1:AQ:13:THR:C	1:AQ:14:GLU:HG3	2.38	0.49
1:AR:79:PHE:CZ	3:DR:31:VAL:HG11	2.47	0.49
1:AS:40:VAL:HG22	1:AS:211:TYR:HE1	1.77	0.49
1:AS:160:TYR:CE1	1:AS:167:VAL:HG23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:19:LEU:HD12	2:CU:48:SER:HB2	1.93	0.49
1:AW:150:ARG:HE	1:AW:150:ARG:H	1.60	0.49
1:AX:107:PHE:HE1	1:AX:196:LEU:HB2	1.76	0.49
1:AX:238:LYS:HA	3:DY:171:SER:O	2.12	0.49
1:AZ:13:THR:C	1:AZ:14:GLU:HG3	2.38	0.49
1:Aa:101:PHE:CD2	1:Aa:143:VAL:HG11	2.44	0.49
1:Ac:89:LYS:HG2	1:Ag:128:VAL:CG1	2.42	0.49
1:Ac:160:TYR:CE1	1:Ac:167:VAL:HG23	2.48	0.49
1:Ae:121:LEU:HD23	1:Af:42:THR:OG1	2.13	0.49
1:Af:160:TYR:CE1	1:Af:167:VAL:HG23	2.48	0.49
1:Ah:79:PHE:CZ	3:Dj:31:VAL:HG11	2.47	0.49
1:Ai:19:LEU:HD12	2:Cj:48:SER:HB2	1.93	0.49
1:Ak:82:LEU:HD23	1:Ak:84:LEU:HD11	1.94	0.49
1:Ak:237:HIS:O	3:Dm:171:SER:HB2	2.13	0.49
1:Al:82:LEU:HD23	1:Al:84:LEU:HD11	1.94	0.49
1:Am:50:GLY:O	1:Am:131:GLN:NE2	2.43	0.49
1:Am:187:LEU:HD12	1:Am:190:ALA:HB2	1.94	0.49
1:An:40:VAL:HG22	1:An:211:TYR:HE1	1.77	0.49
1:BA:79:PHE:CZ	3:Dp:31:VAL:HG11	2.47	0.49
1:BB:121:LEU:HD23	1:BC:42:THR:OG1	2.13	0.49
1:BC:121:LEU:HD13	1:BC:121:LEU:C	2.36	0.49
1:BE:170:PHE:CD2	1:BE:222:ARG:CZ	2.87	0.49
2:C1:152:TYR:CE1	3:D1:60:PRO:HG3	2.48	0.49
2:C1:158:PHE:O	2:C1:159:PRO:C	2.55	0.49
2:C4:158:PHE:O	2:C4:159:PRO:C	2.55	0.49
2:C6:115:ASN:CA	3:DE:119:LYS:HZ3	2.25	0.49
2:CA:48:SER:O	3:DB:159:PRO:HB2	2.12	0.49
2:CD:110:VAL:CG1	2:CD:213:MET:HE3	2.42	0.49
2:CD:125:CYS:HB2	2:CD:199:LEU:HD11	1.94	0.49
2:CD:152:TYR:CE1	3:DD:60:PRO:HG3	2.48	0.49
2:CF:149:ALA:O	2:CF:152:TYR:N	2.45	0.49
2:CG:125:CYS:HB2	2:CG:199:LEU:HD11	1.94	0.49
2:CH:84:PRO:HD2	2:CH:186:LEU:HD22	1.95	0.49
2:CJ:153:GLN:HA	3:DJ:53:PHE:HB2	1.93	0.49
2:CJ:158:PHE:O	2:CJ:159:PRO:C	2.55	0.49
2:CL:140:LEU:HD22	2:CL:190:ASN:OD1	2.12	0.49
2:CM:84:PRO:HD2	2:CM:186:LEU:HD22	1.94	0.49
2:CM:115:ASN:CA	3:Di:119:LYS:HZ3	2.25	0.49
2:CM:125:CYS:HB2	2:CM:199:LEU:HD11	1.94	0.49
2:CM:149:ALA:O	2:CM:152:TYR:N	2.45	0.49
2:CN:149:ALA:O	2:CN:152:TYR:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CP:153:GLN:HA	3:DP:53:PHE:HB2	1.93	0.49
2:CT:152:TYR:HE1	3:DT:60:PRO:HB3	1.78	0.49
2:CY:110:VAL:CG1	2:CY:215:VAL:HA	2.43	0.49
2:CY:227:PRO:HB3	3:DU:132:PRO:HB3	1.94	0.49
2:CZ:152:TYR:CE1	3:DZ:60:PRO:HG3	2.48	0.49
2:CZ:153:GLN:HA	3:DZ:53:PHE:HB2	1.94	0.49
2:Ca:73:GLN:HA	2:Ca:73:GLN:NE2	2.17	0.49
2:Cb:125:CYS:HB2	2:Cb:199:LEU:HD11	1.94	0.49
2:Cc:110:VAL:CG1	2:Cc:213:MET:HE3	2.42	0.49
2:Cd:152:TYR:CE1	3:Dd:60:PRO:HG3	2.48	0.49
2:Cd:152:TYR:HE1	3:Dd:60:PRO:HB3	1.78	0.49
2:Ce:125:CYS:HB2	2:Ce:199:LEU:HD11	1.94	0.49
2:Ce:153:GLN:HA	3:De:53:PHE:HB2	1.94	0.49
2:Cf:110:VAL:CG1	2:Cf:215:VAL:HA	2.43	0.49
2:Cf:149:ALA:O	2:Cf:152:TYR:N	2.45	0.49
2:Ch:125:CYS:HB2	2:Ch:199:LEU:HD11	1.94	0.49
2:Ch:153:GLN:HA	3:Dh:53:PHE:HB2	1.93	0.49
2:Cj:110:VAL:CG1	2:Cj:213:MET:HE3	2.42	0.49
2:Cj:135:THR:HB	2:Cj:139:ALA:CA	2.41	0.49
2:Cl:152:TYR:HE1	3:Dl:60:PRO:HB3	1.78	0.49
2:Cq:200:SER:HA	3:Dq:61:TYR:CE2	2.48	0.49
2:Cr:84:PRO:HD2	2:Cr:186:LEU:HD22	1.95	0.49
2:Cr:200:SER:HA	3:Dr:61:TYR:CE2	2.48	0.49
2:Cr:223:ASN:ND2	2:Cr:223:ASN:N	2.60	0.49
2:Ct:110:VAL:CG1	2:Ct:213:MET:HE3	2.42	0.49
2:Cv:140:LEU:HD22	2:Cv:190:ASN:OD1	2.12	0.49
2:Cv:149:ALA:O	2:Cv:152:TYR:N	2.45	0.49
2:Cv:153:GLN:HA	3:EC:53:PHE:HB2	1.93	0.49
2:Cv:158:PHE:O	2:Cv:159:PRO:C	2.55	0.49
2:Cw:223:ASN:ND2	2:Cw:223:ASN:N	2.60	0.49
2:Cx:125:CYS:HB2	2:Cx:199:LEU:HD11	1.94	0.49
3:D0:80:LEU:HD12	3:D0:80:LEU:H	1.77	0.49
3:D1:97:PHE:CE1	3:D1:216:LEU:HD23	2.47	0.49
3:D6:130:ALA:O	3:D6:131:ALA:HB3	2.13	0.49
3:D7:135:ARG:O	3:D7:138:ALA:N	2.45	0.49
3:D8:84:GLU:CD	3:D8:84:GLU:H	2.21	0.49
3:D9:20:ASP:OD2	3:Db:4:ARG:NH1	2.45	0.49
3:DB:97:PHE:CE1	3:DB:216:LEU:HD23	2.47	0.49
3:DC:20:ASP:OD2	3:DE:4:ARG:NH1	2.45	0.49
3:DD:56:ILE:N	3:DD:56:ILE:CD1	2.75	0.49
3:DE:135:ARG:O	3:DE:138:ALA:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DG:3:ILE:HG22	3:DG:4:ARG:N	2.27	0.49
3:DG:4:ARG:NH1	3:DJ:20:ASP:OD2	2.45	0.49
3:DJ:101:ARG:HA	3:DJ:160:TYR:CE2	2.48	0.49
3:DN:97:PHE:CE1	3:DN:216:LEU:HD23	2.47	0.49
3:DP:101:ARG:HA	3:DP:160:TYR:CE2	2.48	0.49
3:DP:130:ALA:O	3:DP:131:ALA:HB3	2.13	0.49
3:DQ:103:SER:HB3	3:DQ:159:PRO:CA	2.35	0.49
3:DS:121:LEU:HD23	3:DS:121:LEU:O	2.12	0.49
3:DU:80:LEU:HD12	3:DU:80:LEU:H	1.77	0.49
3:DV:4:ARG:NH1	3:DY:20:ASP:OD2	2.45	0.49
3:DV:20:ASP:OD2	3:DY:1:ALA:HB1	2.12	0.49
3:DX:56:ILE:N	3:DX:56:ILE:CD1	2.75	0.49
3:DY:130:ALA:O	3:DY:131:ALA:HB3	2.13	0.49
3:Db:1:ALA:HB1	3:Dd:20:ASP:OD2	2.12	0.49
3:Df:56:ILE:N	3:Df:56:ILE:CD1	2.75	0.49
3:Dg:101:ARG:HA	3:Dg:160:TYR:CE2	2.48	0.49
3:Dh:3:ILE:HG22	3:Dh:4:ARG:N	2.27	0.49
3:Dh:103:SER:HB3	3:Dh:159:PRO:CA	2.35	0.49
3:Dk:80:LEU:HD12	3:Dk:80:LEU:H	1.77	0.49
3:Dk:97:PHE:CE1	3:Dk:216:LEU:HD23	2.47	0.49
3:Dk:101:ARG:HA	3:Dk:160:TYR:CE2	2.48	0.49
3:EA:135:ARG:O	3:EA:138:ALA:N	2.45	0.49
3:EB:102:GLY:HA3	3:EB:214:PHE:HA	1.93	0.49
3:EC:3:ILE:HG22	3:EC:4:ARG:N	2.27	0.49
4:Fe:30:TYR:N	4:Fe:30:TYR:CD1	2.81	0.49
1:A0:121:LEU:HD23	1:A1:42:THR:OG1	2.13	0.49
1:A0:128:VAL:CG1	1:A1:89:LYS:HG2	2.42	0.49
1:A0:170:PHE:CD2	1:A0:222:ARG:CZ	2.87	0.49
1:A4:27:HIS:O	1:A4:33:LEU:HD21	2.13	0.49
1:A6:30:VAL:CG1	1:A6:218:MET:HE3	2.34	0.49
1:A8:27:HIS:O	1:A8:33:LEU:HD21	2.13	0.49
1:A8:43:LEU:N	1:A8:43:LEU:CD2	2.74	0.49
1:A9:48:LEU:HD23	1:A9:198:THR:OG1	2.12	0.49
1:AA:79:PHE:CZ	3:DA:31:VAL:HG11	2.47	0.49
1:AB:170:PHE:CD2	1:AB:222:ARG:CZ	2.87	0.49
1:AC:160:TYR:CE1	1:AC:167:VAL:HG23	2.48	0.49
1:AI:121:LEU:HD23	1:AJ:42:THR:OG1	2.13	0.49
1:AI:187:LEU:HD12	1:AI:190:ALA:HB2	1.94	0.49
1:AK:150:ARG:HE	1:AK:150:ARG:H	1.60	0.49
1:AN:13:THR:C	1:AN:14:GLU:HG3	2.38	0.49
1:AN:160:TYR:CE1	1:AN:167:VAL:HG23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:187:LEU:HD12	1:AO:190:ALA:HB2	1.94	0.49
1:AQ:128:VAL:CG1	1:AR:89:LYS:HG2	2.42	0.49
1:AS:13:THR:C	1:AS:14:GLU:HG3	2.38	0.49
1:AS:239:PHE:CD1	3:DT:170:TYR:CD2	2.96	0.49
1:AT:42:THR:OG1	1:AX:121:LEU:HD23	2.13	0.49
1:AX:187:LEU:HD12	1:AX:190:ALA:HB2	1.94	0.49
1:AY:150:ARG:HE	1:AY:150:ARG:H	1.60	0.49
1:AZ:237:HIS:O	3:D0:171:SER:HB2	2.13	0.49
1:Ab:101:PHE:CD2	1:Ab:143:VAL:HG11	2.44	0.49
1:Ae:107:PHE:HE1	1:Ae:196:LEU:HB2	1.76	0.49
1:Ae:128:VAL:CG1	1:Af:89:LYS:HG2	2.42	0.49
1:Af:27:HIS:O	1:Af:33:LEU:HD21	2.13	0.49
1:Af:171:TYR:N	1:Af:185:ASN:OD1	2.45	0.49
1:Ah:187:LEU:HD12	1:Ah:190:ALA:HB2	1.94	0.49
1:Ai:121:LEU:HD23	1:Aj:42:THR:OG1	2.13	0.49
1:Aj:160:TYR:CE1	1:Aj:167:VAL:HG23	2.48	0.49
1:Ak:150:ARG:HE	1:Ak:150:ARG:H	1.59	0.49
1:Ao:170:PHE:CD2	1:Ao:222:ARG:CZ	2.87	0.49
1:Ao:238:LYS:HA	3:DS:171:SER:O	2.12	0.49
1:BE:187:LEU:HD12	1:BE:190:ALA:HB2	1.94	0.49
1:BH:237:HIS:O	3:ED:171:SER:HB2	2.13	0.49
1:BI:40:VAL:HG22	1:BI:211:TYR:HE1	1.77	0.49
1:BI:113:THR:O	1:BI:114:LYS:C	2.55	0.49
2:C0:110:VAL:CG1	2:C0:215:VAL:HA	2.43	0.49
2:C0:200:SER:HA	3:D0:61:TYR:CE2	2.48	0.49
2:C2:152:TYR:CE1	3:D2:60:PRO:HG3	2.48	0.49
2:C2:158:PHE:O	2:C2:159:PRO:C	2.55	0.49
2:C3:84:PRO:HD2	2:C3:186:LEU:HD22	1.95	0.49
2:C3:152:TYR:CE1	3:D3:60:PRO:HG3	2.48	0.49
2:C4:110:VAL:CG1	2:C4:213:MET:HE3	2.42	0.49
2:C5:152:TYR:CE1	3:D5:60:PRO:HG3	2.48	0.49
2:C5:158:PHE:O	2:C5:159:PRO:C	2.55	0.49
2:C7:149:ALA:O	2:C7:152:TYR:N	2.45	0.49
2:C9:140:LEU:HD22	2:C9:190:ASN:OD1	2.12	0.49
2:C9:200:SER:HA	3:D9:61:TYR:CE2	2.48	0.49
2:CD:48:SER:O	3:DE:159:PRO:HB2	2.12	0.49
2:CD:149:ALA:O	2:CD:152:TYR:N	2.45	0.49
2:CF:223:ASN:ND2	2:CF:223:ASN:N	2.60	0.49
2:CJ:152:TYR:CE1	3:DJ:60:PRO:HG3	2.48	0.49
2:CK:84:PRO:HD2	2:CK:186:LEU:HD22	1.95	0.49
2:CK:200:SER:HA	3:DK:61:TYR:CE2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:153:GLN:HA	3:DL:53:PHE:HB2	1.94	0.49
2:CN:125:CYS:HB2	2:CN:199:LEU:HD11	1.94	0.49
2:CP:73:GLN:HA	2:CP:73:GLN:NE2	2.17	0.49
2:CP:110:VAL:CG1	2:CP:215:VAL:HA	2.43	0.49
2:CQ:200:SER:HA	3:DQ:61:TYR:CE2	2.48	0.49
2:CR:134:HIS:HB3	2:CR:135:THR:H	1.46	0.49
2:CS:125:CYS:HB2	2:CS:199:LEU:HD11	1.94	0.49
2:CU:110:VAL:CG1	2:CU:213:MET:HE3	2.42	0.49
2:CV:152:TYR:CE1	3:DV:60:PRO:HG3	2.48	0.49
2:CW:140:LEU:HD22	2:CW:190:ASN:OD1	2.12	0.49
2:CX:140:LEU:HD22	2:CX:190:ASN:OD1	2.12	0.49
2:CX:152:TYR:HE1	3:DX:60:PRO:HB3	1.77	0.49
2:Ca:223:ASN:ND2	2:Ca:223:ASN:N	2.61	0.49
2:Cb:152:TYR:HE1	3:Db:60:PRO:HB3	1.78	0.49
2:Cc:48:SER:O	3:Dd:159:PRO:HB2	2.12	0.49
2:Cc:115:ASN:CA	3:ED:119:LYS:HZ3	2.25	0.49
2:Cf:84:PRO:HD2	2:Cf:186:LEU:HD22	1.95	0.49
2:Cf:200:SER:HA	3:Df:61:TYR:CE2	2.48	0.49
2:Ch:152:TYR:CE1	3:Dh:60:PRO:HG3	2.48	0.49
2:Ch:200:SER:HA	3:Dh:61:TYR:CE2	2.48	0.49
2:Ci:200:SER:HA	3:Di:61:TYR:CE2	2.48	0.49
2:Cj:152:TYR:CE1	3:Dj:60:PRO:HG3	2.48	0.49
2:Cj:158:PHE:O	2:Cj:159:PRO:C	2.55	0.49
2:Cj:223:ASN:ND2	2:Cj:223:ASN:N	2.60	0.49
2:Ck:125:CYS:HB2	2:Ck:199:LEU:HD11	1.94	0.49
2:Cl:153:GLN:HA	3:DL:53:PHE:HB2	1.94	0.49
2:Co:158:PHE:O	2:Co:159:PRO:C	2.55	0.49
2:Cq:152:TYR:CE1	3:Dq:60:PRO:HG3	2.48	0.49
2:Cq:227:PRO:HB3	3:Dr:132:PRO:HB3	1.94	0.49
2:Cr:152:TYR:CE1	3:Dr:60:PRO:HG3	2.48	0.49
2:Cr:153:GLN:HA	3:Dr:53:PHE:HB2	1.94	0.49
2:Ct:152:TYR:CE1	3:EA:60:PRO:HG3	2.48	0.49
2:Ct:200:SER:HA	3:EA:61:TYR:CE2	2.48	0.49
3:D0:4:ARG:NH1	3:D3:20:ASP:OD2	2.45	0.49
3:D1:4:ARG:NH1	3:DZ:20:ASP:OD2	2.45	0.49
3:D1:20:ASP:OD2	3:DZ:1:ALA:HB1	2.12	0.49
3:D1:101:ARG:HA	3:D1:160:TYR:CE2	2.48	0.49
3:D2:56:ILE:N	3:D2:56:ILE:CD1	2.75	0.49
3:D3:130:ALA:O	3:D3:131:ALA:HB3	2.13	0.49
3:D5:80:LEU:HD12	3:D5:80:LEU:H	1.77	0.49
3:D8:56:ILE:N	3:D8:56:ILE:CD1	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:3:ILE:HG22	3:D9:4:ARG:N	2.27	0.49
3:DA:130:ALA:O	3:DA:131:ALA:HB3	2.13	0.49
3:DJ:121:LEU:HD23	3:DJ:121:LEU:O	2.12	0.49
3:DL:3:ILE:HG22	3:DL:4:ARG:N	2.27	0.49
3:DM:56:ILE:N	3:DM:56:ILE:CD1	2.75	0.49
3:DO:56:ILE:HG13	3:DO:74:PHE:HE1	1.72	0.49
3:DQ:101:ARG:HA	3:DQ:160:TYR:CE2	2.48	0.49
3:DS:56:ILE:N	3:DS:56:ILE:CD1	2.75	0.49
3:DT:84:GLU:H	3:DT:84:GLU:CD	2.20	0.49
3:DV:20:ASP:OD2	3:DX:4:ARG:NH1	2.45	0.49
3:DY:3:ILE:HG22	3:DY:4:ARG:N	2.27	0.49
3:Db:97:PHE:CE1	3:Db:216:LEU:HD23	2.47	0.49
3:Db:130:ALA:O	3:Db:131:ALA:HB3	2.13	0.49
3:Dc:3:ILE:HG22	3:Dc:4:ARG:N	2.27	0.49
3:Dd:3:ILE:HG22	3:Dd:4:ARG:N	2.27	0.49
3:Dh:80:LEU:HD12	3:Dh:80:LEU:H	1.78	0.49
3:Dh:97:PHE:CE1	3:Dh:216:LEU:HD23	2.48	0.49
3:Dj:3:ILE:HG22	3:Dj:4:ARG:N	2.27	0.49
3:Dk:3:ILE:HG22	3:Dk:4:ARG:N	2.27	0.49
3:Dk:20:ASP:OD2	3:Dm:4:ARG:NH1	2.45	0.49
3:Dk:130:ALA:O	3:Dk:131:ALA:HB3	2.13	0.49
3:Dl:3:ILE:HG22	3:Dl:4:ARG:N	2.27	0.49
3:Dl:19:PRO:HG3	4:Fl:17:ASN:ND2	2.26	0.49
3:Dn:121:LEU:HD23	3:Dn:121:LEU:O	2.12	0.49
3:Do:135:ARG:O	3:Do:138:ALA:N	2.45	0.49
3:EA:3:ILE:HG22	3:EA:4:ARG:N	2.27	0.49
3:EB:20:ASP:OD2	3:ED:4:ARG:NH1	2.45	0.49
3:EB:101:ARG:HA	3:EB:160:TYR:CE2	2.48	0.49
4:FE:30:TYR:N	4:FE:30:TYR:CD1	2.81	0.49
4:FJ:30:TYR:N	4:FJ:30:TYR:CD1	2.81	0.49
4:Fc:30:TYR:N	4:Fc:30:TYR:CD1	2.81	0.49
4:Fn:30:TYR:N	4:Fn:30:TYR:CD1	2.81	0.49
4:Fo:30:TYR:N	4:Fo:30:TYR:CD1	2.81	0.49
1:A4:150:ARG:H	1:A4:150:ARG:HE	1.59	0.49
1:A8:160:TYR:CE1	1:A8:167:VAL:HG23	2.48	0.49
1:A8:237:HIS:O	3:D9:171:SER:HB2	2.13	0.49
1:A9:160:TYR:CE1	1:A9:167:VAL:HG23	2.48	0.49
1:A9:237:HIS:O	3:Da:171:SER:HB2	2.13	0.49
1:AA:89:LYS:HG2	1:AE:128:VAL:CG1	2.42	0.49
1:AF:79:PHE:CZ	3:DF:31:VAL:HG11	2.47	0.49
1:AF:160:TYR:CE1	1:AF:167:VAL:HG23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:237:HIS:O	3:DG:171:SER:HB2	2.13	0.49
1:AH:237:HIS:O	3:DH:171:SER:HB2	2.13	0.49
1:AI:13:THR:C	1:AI:14:GLU:HG3	2.38	0.49
1:AJ:238:LYS:HA	3:DJ:171:SER:O	2.12	0.49
1:AK:121:LEU:HD23	1:AL:42:THR:OG1	2.13	0.49
1:AK:187:LEU:HD12	1:AK:190:ALA:HB2	1.94	0.49
1:AM:79:PHE:CZ	3:DM:31:VAL:HG11	2.47	0.49
1:AM:171:TYR:N	1:AM:185:ASN:OD1	2.45	0.49
1:AM:238:LYS:HA	3:DM:171:SER:O	2.12	0.49
1:AN:101:PHE:CD2	1:AN:143:VAL:HG11	2.44	0.49
1:AO:27:HIS:O	1:AO:33:LEU:HD21	2.13	0.49
1:AQ:101:PHE:CD2	1:AQ:143:VAL:HG11	2.44	0.49
1:AQ:187:LEU:HD12	1:AQ:190:ALA:HB2	1.94	0.49
1:AS:27:HIS:O	1:AS:33:LEU:HD21	2.13	0.49
1:AS:42:THR:OG1	1:Ao:121:LEU:HD23	2.13	0.49
1:AT:89:LYS:HG2	1:AX:128:VAL:CG1	2.42	0.49
1:AU:160:TYR:CE1	1:AU:167:VAL:HG23	2.48	0.49
1:AW:40:VAL:HG22	1:AW:211:TYR:HE1	1.77	0.49
1:AX:13:THR:C	1:AX:14:GLU:HG3	2.38	0.49
1:AX:27:HIS:O	1:AX:33:LEU:HD21	2.13	0.49
1:AY:237:HIS:O	3:DZ:171:SER:HB2	2.13	0.49
1:AZ:27:HIS:O	1:AZ:33:LEU:HD21	2.13	0.49
1:Ab:237:HIS:O	3:Dd:171:SER:HB2	2.13	0.49
1:Ad:40:VAL:HG22	1:Ad:211:TYR:HE1	1.77	0.49
1:Ak:121:LEU:HD23	1:Al:42:THR:OG1	2.13	0.49
1:Al:79:PHE:CZ	3:Dn:31:VAL:HG11	2.47	0.49
1:Al:150:ARG:HE	1:Al:150:ARG:H	1.59	0.49
1:An:187:LEU:HD12	1:An:190:ALA:HB2	1.94	0.49
1:Ao:187:LEU:HD12	1:Ao:190:ALA:HB2	1.94	0.49
1:BA:160:TYR:CE1	1:BA:167:VAL:HG23	2.48	0.49
1:BB:237:HIS:O	3:Dq:171:SER:HB2	2.13	0.49
1:BC:160:TYR:CE1	1:BC:167:VAL:HG23	2.48	0.49
1:BD:187:LEU:HD12	1:BD:190:ALA:HB2	1.94	0.49
1:BE:27:HIS:O	1:BE:33:LEU:HD21	2.13	0.49
1:BF:13:THR:C	1:BF:14:GLU:HG3	2.38	0.49
1:BG:13:THR:C	1:BG:14:GLU:HG3	2.38	0.49
1:BG:48:LEU:HD23	1:BG:198:THR:OG1	2.12	0.49
1:BG:150:ARG:H	1:BG:150:ARG:HE	1.60	0.49
1:BH:170:PHE:CD2	1:BH:222:ARG:CZ	2.87	0.49
1:BI:150:ARG:H	1:BI:150:ARG:HE	1.60	0.49
1:BI:237:HIS:O	3:EE:171:SER:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:152:TYR:HE1	3:D1:60:PRO:HB3	1.78	0.49
2:C3:115:ASN:HD22	3:DU:190:ALA:C	2.17	0.49
2:C4:149:ALA:O	2:C4:152:TYR:N	2.45	0.49
2:C4:152:TYR:HE1	3:D4:60:PRO:HB3	1.78	0.49
2:C5:223:ASN:ND2	2:C5:223:ASN:N	2.60	0.49
2:C6:46:THR:CG2	3:D7:165:ASP:HA	2.38	0.49
2:C6:223:ASN:ND2	2:C6:223:ASN:N	2.60	0.49
2:C7:200:SER:HA	3:D7:61:TYR:CE2	2.48	0.49
2:C8:125:CYS:HB2	2:C8:199:LEU:HD11	1.94	0.49
2:C9:110:VAL:CG1	2:C9:215:VAL:HA	2.43	0.49
2:CA:153:GLN:HA	3:DA:53:PHE:HB2	1.94	0.49
2:CB:110:VAL:CG1	2:CB:215:VAL:HA	2.43	0.49
2:CB:115:ASN:CA	3:Df:119:LYS:HZ3	2.24	0.49
2:CC:152:TYR:HE1	3:DC:60:PRO:HB3	1.78	0.49
2:CC:158:PHE:O	2:CC:159:PRO:C	2.55	0.49
2:CE:167:THR:O	2:CE:168:ASN:HB3	2.13	0.49
2:CF:200:SER:HA	3:DF:61:TYR:CE2	2.48	0.49
2:CG:158:PHE:O	2:CG:159:PRO:C	2.56	0.49
2:CI:84:PRO:HD2	2:CI:186:LEU:HD22	1.95	0.49
2:CI:152:TYR:HE1	3:DI:60:PRO:HB3	1.78	0.49
2:CJ:223:ASN:ND2	2:CJ:223:ASN:N	2.61	0.49
2:CK:158:PHE:O	2:CK:159:PRO:C	2.55	0.49
2:CO:140:LEU:HD22	2:CO:190:ASN:CG	2.38	0.49
2:CP:152:TYR:CE1	3:DP:60:PRO:HG3	2.48	0.49
2:CQ:158:PHE:O	2:CQ:159:PRO:C	2.55	0.49
2:CT:149:ALA:O	2:CT:152:TYR:N	2.45	0.49
2:CV:149:ALA:O	2:CV:152:TYR:N	2.45	0.49
2:CX:125:CYS:HB2	2:CX:199:LEU:HD11	1.94	0.49
2:CY:149:ALA:O	2:CY:152:TYR:N	2.45	0.49
2:CZ:110:VAL:CG1	2:CZ:215:VAL:HA	2.43	0.49
2:CZ:152:TYR:HE1	3:DZ:60:PRO:HB3	1.78	0.49
2:Ca:152:TYR:CE1	3:Da:60:PRO:HG3	2.48	0.49
2:Cb:140:LEU:HD22	2:Cb:190:ASN:OD1	2.12	0.49
2:Cc:167:THR:O	2:Cc:168:ASN:HB3	2.13	0.49
2:Cg:84:PRO:HD2	2:Cg:186:LEU:HD22	1.94	0.49
2:Cg:110:VAL:CG1	2:Cg:213:MET:HE3	2.42	0.49
2:Cg:125:CYS:HB2	2:Cg:199:LEU:HD11	1.94	0.49
2:Cg:227:PRO:HB3	3:Dh:132:PRO:HB3	1.94	0.49
2:Ch:140:LEU:HD22	2:Ch:190:ASN:CG	2.38	0.49
2:Ch:140:LEU:HD22	2:Ch:190:ASN:OD1	2.12	0.49
2:Ch:158:PHE:O	2:Ch:159:PRO:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ci:140:LEU:HD22	2:Ci:190:ASN:CG	2.38	0.49
2:Ci:152:TYR:CE1	3:Di:60:PRO:HG3	2.48	0.49
2:Ck:149:ALA:O	2:Ck:152:TYR:N	2.45	0.49
2:Cl:125:CYS:HB2	2:Cl:199:LEU:HD11	1.94	0.49
2:Cm:110:VAL:CG1	2:Cm:215:VAL:HA	2.43	0.49
2:Cm:200:SER:HA	3:Dm:61:TYR:CE2	2.48	0.49
2:Cn:84:PRO:HD2	2:Cn:186:LEU:HD22	1.95	0.49
2:Co:110:VAL:CG1	2:Co:215:VAL:HA	2.43	0.49
2:Cp:48:SER:O	3:Dq:159:PRO:HB2	2.12	0.49
2:Cs:125:CYS:HB2	2:Cs:199:LEU:HD11	1.94	0.49
2:Ct:152:TYR:HE1	3:EA:60:PRO:HB3	1.78	0.49
3:D0:101:ARG:HA	3:D0:160:TYR:CE2	2.48	0.49
3:D2:56:ILE:CD1	3:D2:206:VAL:HG11	2.43	0.49
3:D3:3:ILE:HG22	3:D3:4:ARG:N	2.27	0.49
3:D3:56:ILE:CD1	3:D3:206:VAL:HG11	2.43	0.49
3:D6:1:ALA:HB1	3:D8:20:ASP:OD2	2.12	0.49
3:D9:121:LEU:HD23	3:D9:121:LEU:O	2.12	0.49
3:DA:121:LEU:HD23	3:DA:121:LEU:O	2.12	0.49
3:DB:42:ASN:HD22	3:DB:44:ILE:N	2.08	0.49
3:DD:135:ARG:O	3:DD:138:ALA:N	2.45	0.49
3:DF:130:ALA:O	3:DF:131:ALA:HB3	2.13	0.49
3:DH:19:PRO:HG3	4:FH:17:ASN:ND2	2.26	0.49
3:DH:121:LEU:HD23	3:DH:121:LEU:O	2.12	0.49
3:DH:130:ALA:O	3:DH:131:ALA:HB3	2.13	0.49
3:DJ:130:ALA:O	3:DJ:131:ALA:HB3	2.13	0.49
3:DK:3:ILE:HG22	3:DK:4:ARG:N	2.27	0.49
3:DK:20:ASP:OD2	3:DM:4:ARG:NH1	2.45	0.49
3:DL:19:PRO:HG3	4:FL:17:ASN:ND2	2.26	0.49
3:DL:101:ARG:HA	3:DL:160:TYR:CE2	2.48	0.49
3:DP:80:LEU:HD12	3:DP:80:LEU:H	1.77	0.49
3:DQ:3:ILE:HG22	3:DQ:4:ARG:N	2.27	0.49
3:DS:53:PHE:HB3	3:DS:60:PRO:HB2	1.95	0.49
3:DT:97:PHE:CE1	3:DT:216:LEU:HD23	2.47	0.49
3:DU:20:ASP:OD2	3:DW:4:ARG:NH1	2.45	0.49
3:DX:121:LEU:HD23	3:DX:121:LEU:O	2.12	0.49
3:Dc:121:LEU:HD23	3:Dc:121:LEU:O	2.12	0.49
3:De:4:ARG:NH1	3:Dh:20:ASP:OD2	2.45	0.49
3:Df:56:ILE:CD1	3:Df:206:VAL:HG11	2.43	0.49
3:Dh:121:LEU:HD23	3:Dh:121:LEU:O	2.12	0.49
3:Di:80:LEU:HD12	3:Di:80:LEU:H	1.77	0.49
3:Dj:56:ILE:CD1	3:Dj:206:VAL:HG11	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dl:56:ILE:N	3:Dl:56:ILE:CD1	2.75	0.49
3:Dm:121:LEU:HD23	3:Dm:121:LEU:O	2.12	0.49
3:Dm:130:ALA:O	3:Dm:131:ALA:HB3	2.13	0.49
3:Dn:101:ARG:HA	3:Dn:160:TYR:CE2	2.48	0.49
3:Do:3:ILE:HG22	3:Do:4:ARG:N	2.27	0.49
3:Do:19:PRO:HG3	4:Fo:17:ASN:ND2	2.26	0.49
3:Do:103:SER:HB3	3:Do:159:PRO:CA	2.35	0.49
3:Dq:121:LEU:HD23	3:Dq:121:LEU:O	2.12	0.49
3:Dr:80:LEU:HD12	3:Dr:80:LEU:H	1.77	0.49
3:Ds:56:ILE:CD1	3:Ds:206:VAL:HG11	2.43	0.49
3:EB:80:LEU:HD12	3:EB:80:LEU:H	1.77	0.49
4:F3:25:PHE:O	4:FZ:20:SER:HA	2.12	0.49
4:F5:25:PHE:O	4:F6:20:SER:HA	2.12	0.49
4:F9:30:TYR:N	4:F9:30:TYR:CD1	2.81	0.49
4:FR:30:TYR:N	4:FR:30:TYR:CD1	2.81	0.49
4:Fb:30:TYR:CD1	4:Fb:30:TYR:N	2.81	0.49
1:A0:40:VAL:HG22	1:A0:211:TYR:HE1	1.77	0.48
1:A1:105:LYS:HE3	1:A1:139:SER:OG	2.13	0.48
1:A2:105:LYS:HE3	1:A2:139:SER:OG	2.14	0.48
1:A2:121:LEU:HD23	1:AY:42:THR:OG1	2.13	0.48
1:A2:157:SER:CB	3:D3:24:PRO:HA	2.36	0.48
1:A3:48:LEU:HD23	1:A3:198:THR:OG1	2.12	0.48
1:A3:105:LYS:HE3	1:A3:139:SER:OG	2.13	0.48
1:A5:160:TYR:CE1	1:A5:167:VAL:HG23	2.48	0.48
1:A6:238:LYS:HA	3:D7:171:SER:O	2.12	0.48
1:A8:40:VAL:HG22	1:A8:211:TYR:HE1	1.77	0.48
1:A8:105:LYS:HE3	1:A8:139:SER:OG	2.13	0.48
1:A9:101:PHE:CD2	1:A9:143:VAL:HG11	2.44	0.48
1:A9:238:LYS:HA	3:Da:171:SER:O	2.12	0.48
1:AA:237:HIS:O	3:DA:171:SER:HB2	2.13	0.48
1:AD:40:VAL:HG22	1:AD:211:TYR:HE1	1.77	0.48
1:AF:27:HIS:O	1:AF:33:LEU:HD21	2.13	0.48
1:AG:101:PHE:CD2	1:AG:143:VAL:HG11	2.43	0.48
1:AH:13:THR:C	1:AH:14:GLU:HG3	2.38	0.48
1:AJ:27:HIS:O	1:AJ:33:LEU:HD21	2.13	0.48
1:AK:237:HIS:O	3:DK:171:SER:HB2	2.13	0.48
1:AL:79:PHE:CZ	3:DL:31:VAL:HG11	2.47	0.48
1:AO:237:HIS:O	3:DO:171:SER:HB2	2.13	0.48
1:AQ:27:HIS:O	1:AQ:33:LEU:HD21	2.13	0.48
1:AQ:237:HIS:O	3:DQ:171:SER:HB2	2.13	0.48
1:AS:238:LYS:HA	3:DT:171:SER:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:121:LEU:HD23	1:AU:42:THR:OG1	2.13	0.48
1:AU:105:LYS:HE3	1:AU:139:SER:OG	2.13	0.48
1:AU:187:LEU:HD12	1:AU:190:ALA:HB2	1.94	0.48
1:AV:27:HIS:O	1:AV:33:LEU:HD21	2.13	0.48
1:Ab:13:THR:C	1:Ab:14:GLU:HG3	2.38	0.48
1:Ac:150:ARG:HE	1:Ac:150:ARG:H	1.60	0.48
1:Ac:170:PHE:CD2	1:Ac:222:ARG:CZ	2.87	0.48
1:Ad:237:HIS:O	3:Df:171:SER:HB2	2.13	0.48
1:Af:121:LEU:HD23	1:Ag:42:THR:OG1	2.13	0.48
1:Ah:160:TYR:CE1	1:Ah:167:VAL:HG23	2.48	0.48
1:Ai:79:PHE:CZ	3:Dk:31:VAL:HG11	2.47	0.48
1:Aj:79:PHE:CZ	3:Dl:31:VAL:HG11	2.47	0.48
1:Aj:82:LEU:HD23	1:Aj:84:LEU:HD11	1.94	0.48
1:Ak:40:VAL:HG22	1:Ak:211:TYR:HE1	1.77	0.48
1:Al:237:HIS:O	3:Dn:171:SER:HB2	2.13	0.48
1:Am:27:HIS:O	1:Am:33:LEU:HD21	2.13	0.48
1:Am:160:TYR:CE1	1:Am:167:VAL:HG23	2.48	0.48
1:An:160:TYR:CE1	1:An:167:VAL:HG23	2.48	0.48
1:Ao:105:LYS:HE3	1:Ao:139:SER:OG	2.13	0.48
1:BB:13:THR:C	1:BB:14:GLU:HG3	2.38	0.48
1:BD:105:LYS:HE3	1:BD:139:SER:OG	2.13	0.48
1:BE:105:LYS:HE3	1:BE:139:SER:OG	2.13	0.48
1:BE:171:TYR:N	1:BE:185:ASN:OD1	2.45	0.48
1:BE:237:HIS:O	3:EA:171:SER:HB2	2.13	0.48
1:BG:27:HIS:O	1:BG:33:LEU:HD21	2.13	0.48
1:BG:79:PHE:CZ	3:EC:31:VAL:HG11	2.47	0.48
1:BH:43:LEU:N	1:BH:43:LEU:CD2	2.74	0.48
1:BI:105:LYS:HE3	1:BI:139:SER:OG	2.13	0.48
2:C1:140:LEU:HD22	2:C1:190:ASN:CG	2.38	0.48
2:C4:140:LEU:HD22	2:C4:190:ASN:CG	2.38	0.48
2:C4:200:SER:HA	3:D4:61:TYR:CE2	2.48	0.48
2:C6:110:VAL:CG1	2:C6:213:MET:HE3	2.42	0.48
2:C6:200:SER:HA	3:D6:61:TYR:CE2	2.48	0.48
2:C7:152:TYR:HE1	3:D7:60:PRO:HB3	1.78	0.48
2:CB:125:CYS:HB2	2:CB:199:LEU:HD11	1.94	0.48
2:CD:84:PRO:HD2	2:CD:186:LEU:HD22	1.95	0.48
2:CD:200:SER:HA	3:DD:61:TYR:CE2	2.48	0.48
2:CE:140:LEU:HD22	2:CE:190:ASN:CG	2.38	0.48
2:CE:200:SER:HA	3:DE:61:TYR:CE2	2.48	0.48
2:CG:200:SER:HA	3:DG:61:TYR:CE2	2.48	0.48
2:CI:83:LEU:HA	2:CI:84:PRO:HA	1.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:125:CYS:HB2	2:CI:199:LEU:HD11	1.94	0.48
2:CI:152:TYR:CE1	3:DI:60:PRO:HG3	2.48	0.48
2:CI:200:SER:HA	3:DI:61:TYR:CE2	2.48	0.48
2:CJ:200:SER:HA	3:DJ:61:TYR:CE2	2.48	0.48
2:CK:48:SER:O	3:DL:159:PRO:HB2	2.12	0.48
2:CP:140:LEU:HD22	2:CP:190:ASN:OD1	2.12	0.48
2:CR:152:TYR:CE1	3:DR:60:PRO:HG3	2.48	0.48
2:CT:152:TYR:CE1	3:DT:60:PRO:HG3	2.48	0.48
2:CU:84:PRO:HD2	2:CU:186:LEU:HD22	1.94	0.48
2:CU:140:LEU:HD22	2:CU:190:ASN:CG	2.38	0.48
2:CU:152:TYR:CE1	3:DU:60:PRO:HG3	2.48	0.48
2:CV:110:VAL:CG1	2:CV:215:VAL:HA	2.43	0.48
2:CW:125:CYS:HB2	2:CW:199:LEU:HD11	1.94	0.48
2:CW:140:LEU:HD22	2:CW:190:ASN:CG	2.38	0.48
2:CW:152:TYR:CE1	3:DW:60:PRO:HG3	2.48	0.48
2:CX:140:LEU:HD22	2:CX:190:ASN:CG	2.38	0.48
2:CX:158:PHE:O	2:CX:159:PRO:C	2.55	0.48
2:CX:200:SER:HA	3:DX:61:TYR:CE2	2.48	0.48
2:CY:152:TYR:CE1	3:DY:60:PRO:HG3	2.48	0.48
2:Ca:115:ASN:CA	3:DL:119:LYS:HZ3	2.25	0.48
2:Ca:140:LEU:HD22	2:Ca:190:ASN:CG	2.38	0.48
2:Cc:200:SER:HA	3:Dc:61:TYR:CE2	2.48	0.48
2:Cd:125:CYS:HB2	2:Cd:199:LEU:HD11	1.94	0.48
2:Cd:140:LEU:HD22	2:Cd:190:ASN:CG	2.38	0.48
2:Cg:158:PHE:O	2:Cg:159:PRO:C	2.55	0.48
2:Ci:110:VAL:CG1	2:Ci:215:VAL:HA	2.43	0.48
2:Ck:223:ASN:ND2	2:Ck:223:ASN:N	2.60	0.48
2:Cl:110:VAL:CG1	2:Cl:215:VAL:HA	2.43	0.48
2:Cm:84:PRO:HD2	2:Cm:186:LEU:HD22	1.94	0.48
2:Cm:140:LEU:HD22	2:Cm:190:ASN:CG	2.38	0.48
2:Co:84:PRO:HD2	2:Co:186:LEU:HD22	1.94	0.48
2:Co:223:ASN:ND2	2:Co:223:ASN:N	2.60	0.48
2:Cq:110:VAL:CG1	2:Cq:215:VAL:HA	2.43	0.48
2:Cq:152:TYR:HE1	3:Dq:60:PRO:HB3	1.78	0.48
2:Cq:158:PHE:O	2:Cq:159:PRO:C	2.55	0.48
2:Cs:158:PHE:O	2:Cs:159:PRO:C	2.55	0.48
2:Cs:200:SER:HA	3:Ds:61:TYR:CE2	2.48	0.48
2:Ct:223:ASN:ND2	2:Ct:223:ASN:N	2.60	0.48
2:Cu:152:TYR:CE1	3:EB:60:PRO:HG3	2.48	0.48
2:Cv:125:CYS:HB2	2:Cv:199:LEU:HD11	1.94	0.48
2:Cx:110:VAL:CG1	2:Cx:215:VAL:HA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cx:115:ASN:CA	3:Do:119:LYS:HZ3	2.26	0.48
2:Cx:140:LEU:HD22	2:Cx:190:ASN:CG	2.38	0.48
2:Cx:152:TYR:CE1	3:EE:60:PRO:HG3	2.48	0.48
2:Cx:180:PRO:HD2	2:Cx:189:HIS:HE1	1.76	0.48
3:D0:1:ALA:HB1	3:D2:20:ASP:OD2	2.12	0.48
3:D3:101:ARG:HA	3:D3:160:TYR:CE2	2.48	0.48
3:D4:4:ARG:NH1	3:D7:20:ASP:OD2	2.45	0.48
3:D5:56:ILE:CD1	3:D5:206:VAL:HG11	2.43	0.48
3:D5:130:ALA:O	3:D5:131:ALA:HB3	2.13	0.48
3:DA:97:PHE:CE1	3:DA:216:LEU:HD23	2.47	0.48
3:DF:56:ILE:CD1	3:DF:206:VAL:HG11	2.43	0.48
3:DF:121:LEU:HD23	3:DF:121:LEU:O	2.12	0.48
3:DI:56:ILE:CD1	3:DI:206:VAL:HG11	2.43	0.48
3:DK:56:ILE:CD1	3:DK:206:VAL:HG11	2.43	0.48
3:DK:130:ALA:O	3:DK:131:ALA:HB3	2.13	0.48
3:DM:130:ALA:O	3:DM:131:ALA:HB3	2.13	0.48
3:DN:101:ARG:HA	3:DN:160:TYR:CE2	2.48	0.48
3:DO:3:ILE:HG22	3:DO:4:ARG:N	2.27	0.48
3:DQ:56:ILE:CD1	3:DQ:206:VAL:HG11	2.43	0.48
3:DQ:80:LEU:HD12	3:DQ:80:LEU:H	1.77	0.48
3:DQ:97:PHE:CE1	3:DQ:216:LEU:HD23	2.47	0.48
3:DS:56:ILE:CD1	3:DS:206:VAL:HG11	2.43	0.48
3:DS:103:SER:HB2	3:DS:159:PRO:HA	1.95	0.48
3:DT:121:LEU:HD23	3:DT:121:LEU:O	2.12	0.48
3:DU:103:SER:HB3	3:DU:159:PRO:CA	2.35	0.48
3:DV:101:ARG:HA	3:DV:160:TYR:CE2	2.48	0.48
3:DW:80:LEU:HD12	3:DW:80:LEU:H	1.77	0.48
3:DX:97:PHE:CE1	3:DX:216:LEU:HD23	2.47	0.48
3:Da:80:LEU:HD12	3:Da:80:LEU:H	1.77	0.48
3:Dc:56:ILE:CD1	3:Dc:206:VAL:HG11	2.43	0.48
3:De:56:ILE:CD1	3:De:206:VAL:HG11	2.43	0.48
3:De:101:ARG:HA	3:De:160:TYR:CE2	2.48	0.48
3:De:130:ALA:O	3:De:131:ALA:HB3	2.13	0.48
3:Df:130:ALA:O	3:Df:131:ALA:HB3	2.13	0.48
3:Dg:3:ILE:HG22	3:Dg:4:ARG:N	2.27	0.48
3:Dg:103:SER:HB2	3:Dg:159:PRO:HA	1.95	0.48
3:Dj:101:ARG:HA	3:Dj:160:TYR:CE2	2.48	0.48
3:Do:130:ALA:O	3:Do:131:ALA:HB3	2.13	0.48
3:Dp:56:ILE:CD1	3:Dp:206:VAL:HG11	2.43	0.48
3:Dp:97:PHE:CE1	3:Dp:216:LEU:HD23	2.47	0.48
3:EC:20:ASP:OD2	3:EE:4:ARG:NH1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:56:ILE:N	3:EC:56:ILE:CD1	2.75	0.48
4:F3:30:TYR:N	4:F3:30:TYR:CD1	2.81	0.48
4:FK:20:SER:HA	4:FO:25:PHE:O	2.12	0.48
4:Fh:30:TYR:N	4:Fh:30:TYR:CD1	2.81	0.48
4:Fi:30:TYR:N	4:Fi:30:TYR:CD1	2.81	0.48
4:Fl:30:TYR:N	4:Fl:30:TYR:CD1	2.81	0.48
4:Fp:25:PHE:O	4:Fq:20:SER:HA	2.12	0.48
4:Fq:30:TYR:N	4:Fq:30:TYR:CD1	2.81	0.48
4:Fv:25:PHE:O	4:Fw:20:SER:HA	2.12	0.48
1:A1:48:LEU:HD23	1:A1:198:THR:OG1	2.12	0.48
1:A1:101:PHE:CD2	1:A1:143:VAL:HG11	2.44	0.48
1:A1:150:ARG:H	1:A1:150:ARG:HE	1.60	0.48
1:A1:160:TYR:CE1	1:A1:167:VAL:HG23	2.48	0.48
1:A2:160:TYR:CE1	1:A2:167:VAL:HG23	2.48	0.48
1:A3:42:THR:OG1	1:A7:121:LEU:HD23	2.13	0.48
1:A4:105:LYS:HE3	1:A4:139:SER:OG	2.13	0.48
1:A4:160:TYR:CE1	1:A4:167:VAL:HG23	2.48	0.48
1:A4:237:HIS:O	3:D5:171:SER:HB2	2.13	0.48
1:A5:40:VAL:HG22	1:A5:211:TYR:HE1	1.77	0.48
1:A5:121:LEU:HD23	1:A6:42:THR:OG1	2.13	0.48
1:A6:237:HIS:O	3:D7:171:SER:HB2	2.13	0.48
1:A8:187:LEU:HD12	1:A8:190:ALA:HB2	1.94	0.48
1:A9:13:THR:C	1:A9:14:GLU:HG3	2.38	0.48
1:AA:27:HIS:O	1:AA:33:LEU:HD21	2.13	0.48
1:AA:160:TYR:CE1	1:AA:167:VAL:HG23	2.48	0.48
1:AB:105:LYS:HE3	1:AB:139:SER:OG	2.14	0.48
1:AB:238:LYS:HA	3:DB:171:SER:O	2.12	0.48
1:AE:237:HIS:O	3:DE:171:SER:HB2	2.13	0.48
1:AF:4:VAL:HG22	3:DF:151:ASN:O	2.14	0.48
1:AG:27:HIS:O	1:AG:33:LEU:HD21	2.13	0.48
1:AG:237:HIS:HB2	3:DG:81:SER:O	2.14	0.48
1:AH:160:TYR:CE1	1:AH:167:VAL:HG23	2.48	0.48
1:AI:237:HIS:O	3:DI:171:SER:HB2	2.13	0.48
1:AK:101:PHE:CD2	1:AK:143:VAL:HG11	2.44	0.48
1:AK:238:LYS:HA	3:DK:171:SER:O	2.12	0.48
1:AL:160:TYR:CE1	1:AL:167:VAL:HG23	2.48	0.48
1:AM:19:LEU:HD12	2:CL:48:SER:HB2	1.93	0.48
1:AN:237:HIS:O	3:DN:171:SER:HB2	2.13	0.48
1:AO:79:PHE:CZ	3:DO:31:VAL:HG11	2.47	0.48
1:AO:105:LYS:HE3	1:AO:139:SER:OG	2.13	0.48
1:AQ:121:LEU:HD23	1:AR:42:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:19:LEU:HD12	2:CQ:48:SER:HB2	1.93	0.48
1:AR:27:HIS:O	1:AR:33:LEU:HD21	2.13	0.48
1:AR:113:THR:O	1:AR:114:LYS:C	2.54	0.48
1:AR:237:HIS:O	3:DR:171:SER:HB2	2.13	0.48
1:AT:27:HIS:O	1:AT:33:LEU:HD21	2.13	0.48
1:AT:79:PHE:CZ	3:DU:31:VAL:HG11	2.47	0.48
1:AT:105:LYS:HE3	1:AT:139:SER:OG	2.13	0.48
1:AT:237:HIS:O	3:DU:171:SER:HB2	2.13	0.48
1:AV:150:ARG:HE	1:AV:150:ARG:H	1.60	0.48
1:AW:27:HIS:O	1:AW:33:LEU:HD21	2.13	0.48
1:AW:121:LEU:HD23	1:AX:42:THR:OG1	2.13	0.48
1:AX:82:LEU:HD23	1:AX:84:LEU:HD11	1.94	0.48
1:AY:4:VAL:HG22	3:DZ:151:ASN:O	2.14	0.48
1:Aa:237:HIS:O	3:Dc:171:SER:HB2	2.13	0.48
1:Ac:237:HIS:HB2	3:De:81:SER:O	2.14	0.48
1:Ad:150:ARG:HE	1:Ad:150:ARG:H	1.60	0.48
1:Af:79:PHE:CZ	3:Dh:31:VAL:HG11	2.47	0.48
1:Ah:27:HIS:O	1:Ah:33:LEU:HD21	2.13	0.48
1:Ai:160:TYR:CE1	1:Ai:167:VAL:HG23	2.48	0.48
1:Al:238:LYS:HA	3:Dn:171:SER:O	2.12	0.48
1:Ao:30:VAL:CG1	1:Ao:218:MET:HE3	2.34	0.48
1:BA:105:LYS:HE3	1:BA:139:SER:OG	2.13	0.48
1:BB:237:HIS:HB2	3:Dq:81:SER:O	2.14	0.48
1:BC:113:THR:O	1:BC:114:LYS:C	2.55	0.48
1:BC:121:LEU:HD23	1:BD:42:THR:OG1	2.13	0.48
1:BC:170:PHE:CD2	1:BC:222:ARG:CZ	2.87	0.48
1:BC:187:LEU:HD12	1:BC:190:ALA:HB2	1.94	0.48
1:BD:101:PHE:CD2	1:BD:143:VAL:HG11	2.44	0.48
1:BD:160:TYR:CE1	1:BD:167:VAL:HG23	2.48	0.48
1:BF:4:VAL:HG22	3:EB:151:ASN:O	2.14	0.48
1:BG:40:VAL:HG22	1:BG:211:TYR:HE1	1.77	0.48
1:BG:105:LYS:HE3	1:BG:139:SER:OG	2.13	0.48
1:BG:160:TYR:CE1	1:BG:167:VAL:HG23	2.48	0.48
1:BG:237:HIS:O	3:EC:171:SER:HB2	2.13	0.48
2:C0:32:THR:HG23	2:C0:172:HIS:ND1	2.29	0.48
2:C0:152:TYR:CE1	3:D0:60:PRO:HG3	2.48	0.48
2:C3:149:ALA:O	2:C3:152:TYR:N	2.45	0.48
2:C3:223:ASN:ND2	2:C3:223:ASN:N	2.61	0.48
2:C4:135:THR:HB	2:C4:139:ALA:CA	2.41	0.48
2:C7:125:CYS:HB2	2:C7:199:LEU:HD11	1.94	0.48
2:C7:167:THR:O	2:C7:168:ASN:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:167:THR:O	2:C8:168:ASN:HB3	2.14	0.48
2:C8:223:ASN:ND2	2:C8:223:ASN:N	2.60	0.48
2:CA:152:TYR:HE1	3:DA:60:PRO:HB3	1.78	0.48
2:CC:84:PRO:HD2	2:CC:186:LEU:HD22	1.95	0.48
2:CC:110:VAL:CG1	2:CC:213:MET:HE3	2.42	0.48
2:CD:223:ASN:ND2	2:CD:223:ASN:N	2.61	0.48
2:CH:32:THR:HG23	2:CH:172:HIS:ND1	2.29	0.48
2:CI:227:PRO:HB3	3:DJ:132:PRO:HB3	1.94	0.48
2:CJ:84:PRO:HD3	2:CJ:108:TRP:CZ2	2.48	0.48
2:CK:152:TYR:HE1	3:DK:60:PRO:HB3	1.78	0.48
2:CM:140:LEU:HD22	2:CM:190:ASN:CG	2.38	0.48
2:CN:115:ASN:CA	3:D2:119:LYS:HZ3	2.26	0.48
2:CO:135:THR:HB	2:CO:139:ALA:CA	2.41	0.48
2:CO:200:SER:HA	3:DO:61:TYR:CE2	2.48	0.48
2:CP:200:SER:HA	3:DP:61:TYR:CE2	2.48	0.48
2:CQ:135:THR:HB	2:CQ:139:ALA:CA	2.41	0.48
2:CQ:152:TYR:CE1	3:DQ:60:PRO:HG3	2.48	0.48
2:CQ:152:TYR:HE1	3:DQ:60:PRO:HB3	1.78	0.48
2:CR:110:VAL:CG1	2:CR:213:MET:HE3	2.42	0.48
2:CR:125:CYS:HB2	2:CR:199:LEU:HD11	1.94	0.48
2:CS:152:TYR:CE1	3:DS:60:PRO:HG3	2.48	0.48
2:CS:167:THR:O	2:CS:168:ASN:HB3	2.14	0.48
2:CT:140:LEU:HD22	2:CT:190:ASN:CG	2.38	0.48
2:CU:200:SER:HA	3:DU:61:TYR:CE2	2.48	0.48
2:CV:110:VAL:CG1	2:CV:213:MET:HE3	2.42	0.48
2:CV:140:LEU:HD22	2:CV:190:ASN:OD1	2.12	0.48
2:CY:140:LEU:HD22	2:CY:190:ASN:CG	2.38	0.48
2:Cd:110:VAL:CG1	2:Cd:213:MET:HE3	2.42	0.48
2:Ce:140:LEU:HD22	2:Ce:190:ASN:OD1	2.12	0.48
2:Cg:110:VAL:CG1	2:Cg:215:VAL:HA	2.43	0.48
2:Cg:223:ASN:ND2	2:Cg:223:ASN:N	2.60	0.48
2:Ch:152:TYR:HE1	3:Dh:60:PRO:HB3	1.77	0.48
2:Ci:152:TYR:HE1	3:Di:60:PRO:HB3	1.78	0.48
2:Ck:158:PHE:O	2:Ck:159:PRO:C	2.55	0.48
2:Cl:140:LEU:HD22	2:Cl:190:ASN:CG	2.38	0.48
2:Cm:152:TYR:CE1	3:Dm:60:PRO:HG3	2.48	0.48
2:Cn:223:ASN:ND2	2:Cn:223:ASN:N	2.60	0.48
2:Co:140:LEU:HD22	2:Co:190:ASN:CG	2.38	0.48
2:Co:152:TYR:HE1	3:Do:60:PRO:HB3	1.78	0.48
2:Cp:226:LEU:CD2	3:Dq:126:PRO:HG2	2.36	0.48
2:Cq:140:LEU:HD22	2:Cq:190:ASN:CG	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cs:227:PRO:HB3	3:Do:132:PRO:HB3	1.94	0.48
2:Cu:223:ASN:ND2	2:Cu:223:ASN:N	2.60	0.48
2:Cu:227:PRO:HB3	3:EC:132:PRO:HB3	1.94	0.48
2:Cv:115:ASN:HD22	3:Dd:190:ALA:C	2.17	0.48
2:Cv:152:TYR:HE1	3:EC:60:PRO:HB3	1.78	0.48
2:Cw:140:LEU:HD22	2:Cw:190:ASN:CG	2.39	0.48
2:Cx:140:LEU:HD22	2:Cx:190:ASN:OD1	2.12	0.48
2:Cx:158:PHE:O	2:Cx:159:PRO:C	2.55	0.48
3:D0:20:ASP:OD2	3:D2:4:ARG:NH1	2.45	0.48
3:D0:75:GLN:HA	3:D0:183:LEU:O	2.14	0.48
3:D0:121:LEU:HD23	3:D0:121:LEU:O	2.12	0.48
3:D6:56:ILE:N	3:D6:56:ILE:CD1	2.75	0.48
3:D7:97:PHE:CE1	3:D7:216:LEU:HD23	2.47	0.48
3:D8:97:PHE:CE1	3:D8:216:LEU:HD23	2.47	0.48
3:D8:101:ARG:HA	3:D8:160:TYR:CE2	2.48	0.48
3:DA:4:ARG:NH1	3:DD:20:ASP:OD2	2.45	0.48
3:DD:75:GLN:HA	3:DD:183:LEU:O	2.14	0.48
3:DF:20:ASP:OD2	3:DH:4:ARG:NH1	2.45	0.48
3:DH:56:ILE:CD1	3:DH:206:VAL:HG11	2.43	0.48
3:DJ:103:SER:HB3	3:DJ:159:PRO:CA	2.35	0.48
3:DK:4:ARG:NH1	3:DN:20:ASP:OD2	2.45	0.48
3:DQ:4:ARG:NH1	3:DT:20:ASP:OD2	2.45	0.48
3:DR:97:PHE:CE1	3:DR:216:LEU:HD23	2.47	0.48
3:DR:121:LEU:HD23	3:DR:121:LEU:O	2.12	0.48
3:DS:130:ALA:O	3:DS:131:ALA:HB3	2.13	0.48
3:DU:75:GLN:HA	3:DU:183:LEU:O	2.14	0.48
3:DW:130:ALA:O	3:DW:131:ALA:HB3	2.13	0.48
3:DX:103:SER:HB2	3:DX:159:PRO:HA	1.95	0.48
3:DY:97:PHE:CE1	3:DY:216:LEU:HD23	2.47	0.48
3:DZ:84:GLU:CD	3:DZ:84:GLU:H	2.21	0.48
3:Da:4:ARG:NH1	3:Dd:20:ASP:OD2	2.45	0.48
3:Da:56:ILE:CD1	3:Da:206:VAL:HG11	2.43	0.48
3:Da:101:ARG:HA	3:Da:160:TYR:CE2	2.48	0.48
3:Db:56:ILE:CD1	3:Db:206:VAL:HG11	2.43	0.48
3:Dc:56:ILE:N	3:Dc:56:ILE:CD1	2.75	0.48
3:Dd:80:LEU:HD12	3:Dd:80:LEU:H	1.77	0.48
3:Df:80:LEU:HD12	3:Df:80:LEU:H	1.77	0.48
3:Dl:80:LEU:HD12	3:Dl:80:LEU:H	1.77	0.48
3:Dm:56:ILE:CD1	3:Dm:206:VAL:HG11	2.43	0.48
3:Dn:3:ILE:HG22	3:Dn:4:ARG:N	2.27	0.48
3:Dr:121:LEU:HD23	3:Dr:121:LEU:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EA:56:ILE:CD1	3:EA:206:VAL:HG11	2.43	0.48
3:EB:97:PHE:CE1	3:EB:216:LEU:HD23	2.47	0.48
3:ED:130:ALA:O	3:ED:131:ALA:HB3	2.13	0.48
4:F4:30:TYR:N	4:F4:30:TYR:CD1	2.81	0.48
4:FA:30:TYR:CD1	4:FA:30:TYR:N	2.81	0.48
4:FC:25:PHE:O	4:FD:20:SER:HA	2.12	0.48
4:FC:30:TYR:N	4:FC:30:TYR:CD1	2.81	0.48
4:FZ:30:TYR:N	4:FZ:30:TYR:CD1	2.81	0.48
4:Fs:30:TYR:N	4:Fs:30:TYR:CD1	2.81	0.48
4:Fx:30:TYR:CD1	4:Fx:30:TYR:N	2.81	0.48
1:A3:13:THR:C	1:A3:14:GLU:HG3	2.38	0.48
1:A4:121:LEU:HD23	1:A5:42:THR:OG1	2.13	0.48
1:A5:82:LEU:HD23	1:A5:84:LEU:HD11	1.94	0.48
1:A6:4:VAL:HG22	3:D7:151:ASN:O	2.14	0.48
1:A6:237:HIS:HB2	3:D7:81:SER:O	2.14	0.48
1:A8:79:PHE:CZ	3:D9:31:VAL:HG11	2.47	0.48
1:A8:121:LEU:HD23	1:A9:42:THR:OG1	2.13	0.48
1:AA:238:LYS:HA	3:DA:171:SER:O	2.12	0.48
1:AC:187:LEU:HD12	1:AC:190:ALA:HB2	1.94	0.48
1:AD:238:LYS:HA	3:DD:171:SER:O	2.12	0.48
1:AH:30:VAL:CG1	1:AH:218:MET:HE3	2.34	0.48
1:AJ:13:THR:C	1:AJ:14:GLU:HG3	2.38	0.48
1:AK:13:THR:C	1:AK:14:GLU:HG3	2.38	0.48
1:AK:105:LYS:HE3	1:AK:139:SER:OG	2.13	0.48
1:AL:27:HIS:O	1:AL:33:LEU:HD21	2.13	0.48
1:AM:4:VAL:HG22	3:DM:151:ASN:O	2.14	0.48
1:AQ:40:VAL:HG22	1:AQ:211:TYR:HE1	1.77	0.48
1:AQ:237:HIS:HB2	3:DQ:81:SER:O	2.14	0.48
1:AR:150:ARG:H	1:AR:150:ARG:HE	1.60	0.48
1:AU:101:PHE:CD2	1:AU:143:VAL:HG11	2.44	0.48
1:AY:160:TYR:CE1	1:AY:167:VAL:HG23	2.48	0.48
1:AZ:4:VAL:HG22	3:D0:151:ASN:O	2.14	0.48
1:AZ:82:LEU:HD23	1:AZ:84:LEU:HD11	1.94	0.48
1:AZ:160:TYR:CE1	1:AZ:167:VAL:HG23	2.48	0.48
1:Aa:27:HIS:O	1:Aa:33:LEU:HD21	2.13	0.48
1:Ad:27:HIS:O	1:Ad:33:LEU:HD21	2.13	0.48
1:Ad:187:LEU:HD12	1:Ad:190:ALA:HB2	1.94	0.48
1:Ad:237:HIS:HB2	3:Df:81:SER:O	2.14	0.48
1:Ae:101:PHE:CD2	1:Ae:143:VAL:HG11	2.44	0.48
1:Af:40:VAL:HG22	1:Af:211:TYR:HE1	1.77	0.48
1:Af:105:LYS:HE3	1:Af:139:SER:OG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ag:30:VAL:CG1	1:Ag:218:MET:HE3	2.34	0.48
1:Ah:4:VAL:HG22	3:Dj:151:ASN:O	2.14	0.48
1:Ah:40:VAL:HG22	1:Ah:211:TYR:HE1	1.77	0.48
1:Ah:121:LEU:HD23	1:Ai:42:THR:OG1	2.13	0.48
1:Ak:139:SER:HA	1:Ak:140:PRO:HD3	1.62	0.48
1:Am:87:GLN:O	1:Am:88:PHE:CB	2.62	0.48
1:Am:121:LEU:HD23	1:BA:42:THR:OG1	2.13	0.48
1:An:237:HIS:O	3:Db:171:SER:HB2	2.13	0.48
1:BB:171:TYR:N	1:BB:185:ASN:OD1	2.45	0.48
1:BC:237:HIS:O	3:Dr:171:SER:HB2	2.13	0.48
1:BD:4:VAL:HG22	3:Ds:151:ASN:O	2.14	0.48
1:BD:13:THR:C	1:BD:14:GLU:HG3	2.38	0.48
1:BD:37:PHE:CD1	1:BD:212:ARG:HB2	2.49	0.48
1:BD:157:SER:CB	3:Ds:24:PRO:HA	2.35	0.48
1:BE:121:LEU:HD23	1:BF:42:THR:OG1	2.13	0.48
1:BG:82:LEU:HD23	1:BG:84:LEU:HD11	1.94	0.48
1:BH:40:VAL:HG22	1:BH:211:TYR:HE1	1.77	0.48
1:BH:82:LEU:HD23	1:BH:84:LEU:HD11	1.94	0.48
1:BH:105:LYS:HE3	1:BH:139:SER:OG	2.14	0.48
2:C0:115:ASN:CA	3:DQ:119:LYS:HZ3	2.25	0.48
2:C0:167:THR:O	2:C0:168:ASN:HB3	2.13	0.48
2:C2:140:LEU:HD22	2:C2:190:ASN:CG	2.38	0.48
2:C2:200:SER:HA	3:D2:61:TYR:CE2	2.48	0.48
2:C3:200:SER:HA	3:D3:61:TYR:CE2	2.48	0.48
2:C4:223:ASN:ND2	2:C4:223:ASN:N	2.60	0.48
2:C8:32:THR:HG23	2:C8:172:HIS:ND1	2.29	0.48
2:C8:134:HIS:HB3	2:C8:135:THR:H	1.46	0.48
2:CB:149:ALA:O	2:CB:152:TYR:N	2.45	0.48
2:CE:152:TYR:HE1	3:DE:60:PRO:HB3	1.77	0.48
2:CE:158:PHE:O	2:CE:159:PRO:C	2.55	0.48
2:CE:223:ASN:ND2	2:CE:223:ASN:N	2.60	0.48
2:CE:227:PRO:HB3	3:DA:132:PRO:HB3	1.94	0.48
2:CG:84:PRO:HD3	2:CG:108:TRP:CZ2	2.49	0.48
2:CI:115:ASN:CA	3:DX:119:LYS:HZ3	2.25	0.48
2:CL:152:TYR:CE1	3:DL:60:PRO:HG3	2.48	0.48
2:CL:200:SER:HA	3:DL:61:TYR:CE2	2.48	0.48
2:CM:84:PRO:HD3	2:CM:108:TRP:CZ2	2.49	0.48
2:CM:152:TYR:CE1	3:DM:60:PRO:HG3	2.48	0.48
2:CM:158:PHE:O	2:CM:159:PRO:C	2.55	0.48
2:CO:152:TYR:HE1	3:DO:60:PRO:HB3	1.78	0.48
2:CP:140:LEU:HD22	2:CP:190:ASN:CG	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CP:226:LEU:CD2	3:DQ:126:PRO:HG2	2.36	0.48
2:CQ:167:THR:O	2:CQ:168:ASN:HB3	2.14	0.48
2:CQ:223:ASN:ND2	2:CQ:223:ASN:N	2.60	0.48
2:CS:32:THR:HG23	2:CS:172:HIS:ND1	2.29	0.48
2:CS:110:VAL:CG1	2:CS:215:VAL:HA	2.43	0.48
2:CT:115:ASN:CA	3:DK:119:LYS:HZ3	2.26	0.48
2:CT:125:CYS:HB2	2:CT:199:LEU:HD11	1.94	0.48
2:CT:226:LEU:CD2	3:DP:126:PRO:HG2	2.36	0.48
2:CV:152:TYR:HE1	3:DV:60:PRO:HB3	1.78	0.48
2:CX:153:GLN:HA	3:DX:53:PHE:HB2	1.94	0.48
2:CZ:32:THR:HG23	2:CZ:172:HIS:ND1	2.29	0.48
2:Cb:32:THR:HG23	2:Cb:172:HIS:ND1	2.29	0.48
2:Cb:153:GLN:HA	3:Db:53:PHE:HB2	1.94	0.48
2:Cb:167:THR:O	2:Cb:168:ASN:HB3	2.13	0.48
2:Cc:152:TYR:CE1	3:Dc:60:PRO:HG3	2.48	0.48
2:Cc:223:ASN:ND2	2:Cc:223:ASN:N	2.61	0.48
2:Cd:110:VAL:CG1	2:Cd:215:VAL:HA	2.43	0.48
2:Ce:152:TYR:CE1	3:De:60:PRO:HG3	2.48	0.48
2:Cg:32:THR:HG23	2:Cg:172:HIS:ND1	2.29	0.48
2:Cg:152:TYR:HE1	3:Dg:60:PRO:HB3	1.78	0.48
2:Ch:226:LEU:CD2	3:Di:126:PRO:HG2	2.36	0.48
2:Cj:200:SER:HA	3:Dj:61:TYR:CE2	2.48	0.48
2:Ck:84:PRO:HD2	2:Ck:186:LEU:HD22	1.95	0.48
2:Cl:32:THR:HG23	2:Cl:172:HIS:ND1	2.29	0.48
2:Cm:226:LEU:CD2	3:Dn:126:PRO:HG2	2.36	0.48
2:Co:200:SER:HA	3:Do:61:TYR:CE2	2.48	0.48
2:Cp:149:ALA:O	2:Cp:152:TYR:N	2.45	0.48
2:Cx:200:SER:HA	3:EE:61:TYR:CE2	2.48	0.48
2:Cx:223:ASN:ND2	2:Cx:223:ASN:N	2.60	0.48
3:D0:53:PHE:HB3	3:D0:60:PRO:HB2	1.96	0.48
3:D1:53:PHE:HB3	3:D1:60:PRO:HB2	1.96	0.48
3:D1:130:ALA:O	3:D1:131:ALA:HB3	2.13	0.48
3:D2:3:ILE:HG22	3:D2:4:ARG:N	2.27	0.48
3:D4:101:ARG:HA	3:D4:160:TYR:CE2	2.48	0.48
3:D5:19:PRO:HG3	4:F5:17:ASN:ND2	2.26	0.48
3:D7:53:PHE:HB3	3:D7:60:PRO:HB2	1.96	0.48
3:DB:53:PHE:HB3	3:DB:60:PRO:HB2	1.96	0.48
3:DB:75:GLN:HA	3:DB:183:LEU:O	2.14	0.48
3:DD:80:LEU:HD12	3:DD:80:LEU:H	1.77	0.48
3:DE:121:LEU:HD23	3:DE:121:LEU:O	2.12	0.48
3:DF:19:PRO:HG3	4:FF:17:ASN:ND2	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DG:20:ASP:OD2	3:DI:4:ARG:NH1	2.45	0.48
3:DG:56:ILE:CD1	3:DG:206:VAL:HG11	2.43	0.48
3:DH:80:LEU:HD12	3:DH:80:LEU:H	1.77	0.48
3:DK:101:ARG:HA	3:DK:160:TYR:CE2	2.48	0.48
3:DL:53:PHE:HB3	3:DL:60:PRO:HB2	1.96	0.48
3:DL:56:ILE:CD1	3:DL:206:VAL:HG11	2.43	0.48
3:DQ:75:GLN:HA	3:DQ:183:LEU:O	2.14	0.48
3:DQ:121:LEU:HD23	3:DQ:121:LEU:O	2.12	0.48
3:DT:101:ARG:HA	3:DT:160:TYR:CE2	2.48	0.48
3:DT:130:ALA:O	3:DT:131:ALA:HB3	2.13	0.48
3:DU:56:ILE:CD1	3:DU:206:VAL:HG11	2.43	0.48
3:DW:3:ILE:HG22	3:DW:4:ARG:N	2.27	0.48
3:DW:97:PHE:CE1	3:DW:216:LEU:HD23	2.47	0.48
3:DZ:42:ASN:HD22	3:DZ:44:ILE:HG22	1.65	0.48
3:Da:130:ALA:O	3:Da:131:ALA:HB3	2.13	0.48
3:Df:19:PRO:HG3	4:Ff:17:ASN:ND2	2.26	0.48
3:Dj:103:SER:HB2	3:Dj:159:PRO:HA	1.95	0.48
3:DI:53:PHE:HB3	3:DI:60:PRO:HB2	1.96	0.48
3:DI:97:PHE:CE1	3:DI:216:LEU:HD23	2.47	0.48
3:DI:130:ALA:O	3:DI:131:ALA:HB3	2.13	0.48
3:Dm:75:GLN:HA	3:Dm:183:LEU:O	2.14	0.48
3:Dm:80:LEU:HD12	3:Dm:80:LEU:H	1.77	0.48
3:Do:97:PHE:CE1	3:Do:216:LEU:HD23	2.47	0.48
3:Do:101:ARG:HA	3:Do:160:TYR:CE2	2.48	0.48
3:Dq:53:PHE:HB3	3:Dq:60:PRO:HB2	1.96	0.48
3:Dr:56:ILE:CD1	3:Dr:206:VAL:HG11	2.43	0.48
3:EC:19:PRO:HG3	4:Fv:17:ASN:ND2	2.26	0.48
4:FF:30:TYR:N	4:FF:30:TYR:CD1	2.81	0.48
4:Fg:30:TYR:N	4:Fg:30:TYR:CD1	2.81	0.48
4:Fq:25:PHE:O	4:Fr:20:SER:HA	2.12	0.48
1:A0:4:VAL:HG22	3:D1:151:ASN:O	2.14	0.48
1:A1:224:ILE:HD11	3:D2:89:TYR:CZ	2.49	0.48
1:A2:237:HIS:O	3:D3:171:SER:HB2	2.13	0.48
1:A5:37:PHE:CD1	1:A5:212:ARG:HB2	2.49	0.48
1:A6:27:HIS:O	1:A6:33:LEU:HD21	2.13	0.48
1:A6:113:THR:O	1:A6:133:LEU:HD12	2.14	0.48
1:A6:160:TYR:CE1	1:A6:167:VAL:HG23	2.48	0.48
1:A8:82:LEU:HD23	1:A8:84:LEU:HD11	1.94	0.48
1:A9:121:LEU:HD23	1:An:42:THR:OG1	2.13	0.48
1:A9:224:ILE:HD11	3:Da:89:TYR:CZ	2.49	0.48
1:AA:43:LEU:N	1:AA:43:LEU:CD2	2.74	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:113:THR:O	1:AA:133:LEU:HD12	2.14	0.48
1:AB:4:VAL:HG22	3:DB:151:ASN:O	2.14	0.48
1:AB:87:GLN:O	1:AB:88:PHE:CB	2.62	0.48
1:AC:87:GLN:O	1:AC:88:PHE:CB	2.62	0.48
1:AD:4:VAL:HG22	3:DD:151:ASN:O	2.14	0.48
1:AD:105:LYS:HE3	1:AD:139:SER:OG	2.14	0.48
1:AE:160:TYR:CE1	1:AE:167:VAL:HG23	2.48	0.48
1:AE:237:HIS:HB2	3:DE:81:SER:O	2.14	0.48
1:AF:105:LYS:HE3	1:AF:139:SER:OG	2.13	0.48
1:AG:13:THR:C	1:AG:14:GLU:HG3	2.37	0.48
1:AI:30:VAL:CG1	1:AI:218:MET:HE3	2.33	0.48
1:AI:160:TYR:CE1	1:AI:167:VAL:HG23	2.48	0.48
1:AK:37:PHE:CD1	1:AK:212:ARG:HB2	2.49	0.48
1:AK:82:LEU:HD23	1:AK:84:LEU:HD11	1.94	0.48
1:AL:37:PHE:CD1	1:AL:212:ARG:HB2	2.49	0.48
1:AL:156:PHE:CG	3:DL:25:LEU:HD12	2.49	0.48
1:AM:37:PHE:CD1	1:AM:212:ARG:HB2	2.49	0.48
1:AP:160:TYR:CE1	1:AP:167:VAL:HG23	2.48	0.48
1:AQ:156:PHE:CG	3:DQ:25:LEU:HD12	2.49	0.48
1:AQ:160:TYR:CE1	1:AQ:167:VAL:HG23	2.48	0.48
1:AR:79:PHE:CD1	1:AR:79:PHE:C	2.92	0.48
1:AR:170:PHE:CD2	1:AR:222:ARG:CZ	2.87	0.48
1:AR:187:LEU:HD12	1:AR:190:ALA:HB2	1.95	0.48
1:AS:37:PHE:CD1	1:AS:212:ARG:HB2	2.49	0.48
1:AT:87:GLN:O	1:AT:88:PHE:CB	2.62	0.48
1:AT:160:TYR:CE1	1:AT:167:VAL:HG23	2.48	0.48
1:AV:87:GLN:O	1:AV:88:PHE:CB	2.62	0.48
1:AW:105:LYS:HE3	1:AW:139:SER:OG	2.14	0.48
1:AW:237:HIS:HB2	3:DX:81:SER:O	2.14	0.48
1:AZ:237:HIS:HB2	3:D0:81:SER:O	2.14	0.48
1:Aa:42:THR:OG1	1:An:121:LEU:HD23	2.13	0.48
1:Aa:237:HIS:HB2	3:Dc:81:SER:O	2.14	0.48
1:Ab:27:HIS:O	1:Ab:33:LEU:HD21	2.13	0.48
1:Ad:105:LYS:HE3	1:Ad:139:SER:OG	2.14	0.48
1:Ae:37:PHE:CD1	1:Ae:212:ARG:HB2	2.49	0.48
1:Ae:171:TYR:N	1:Ae:185:ASN:OD1	2.45	0.48
1:Ae:224:ILE:HD11	3:Dg:89:TYR:CZ	2.49	0.48
1:Ah:87:GLN:O	1:Ah:88:PHE:CB	2.62	0.48
1:Ah:105:LYS:HE3	1:Ah:139:SER:OG	2.13	0.48
1:Ai:13:THR:C	1:Ai:14:GLU:HG3	2.38	0.48
1:Ai:40:VAL:HG22	1:Ai:211:TYR:HE1	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:86:ILE:HD12	1:Ai:86:ILE:H	1.72	0.48
1:Aj:105:LYS:HE3	1:Aj:139:SER:OG	2.14	0.48
1:Ak:160:TYR:CE1	1:Ak:167:VAL:HG23	2.48	0.48
1:Al:105:LYS:HE3	1:Al:139:SER:OG	2.13	0.48
1:Al:237:HIS:HB2	3:Dn:81:SER:O	2.14	0.48
1:An:13:THR:C	1:An:14:GLU:HG3	2.37	0.48
1:An:105:LYS:HE3	1:An:139:SER:OG	2.13	0.48
1:An:237:HIS:HB2	3:Db:81:SER:O	2.14	0.48
1:BB:37:PHE:CD1	1:BB:212:ARG:HB2	2.49	0.48
1:BC:238:LYS:HA	3:Dr:171:SER:O	2.12	0.48
1:BD:238:LYS:HA	3:Ds:171:SER:O	2.12	0.48
1:BE:128:VAL:HG11	1:BF:89:LYS:HG2	1.96	0.48
1:BE:150:ARG:HE	1:BE:150:ARG:H	1.60	0.48
1:BF:128:VAL:CG1	1:BG:89:LYS:HG2	2.42	0.48
1:BF:160:TYR:CE1	1:BF:167:VAL:HG23	2.48	0.48
1:BF:187:LEU:HD12	1:BF:190:ALA:HB2	1.94	0.48
1:BF:237:HIS:HB2	3:EB:81:SER:O	2.14	0.48
1:BF:237:HIS:O	3:EB:171:SER:HB2	2.13	0.48
1:BI:37:PHE:CD1	1:BI:212:ARG:HB2	2.49	0.48
1:BI:156:PHE:CG	3:EE:25:LEU:HD12	2.49	0.48
1:BI:160:TYR:CE1	1:BI:167:VAL:HG23	2.48	0.48
2:C0:152:TYR:HE1	3:D0:60:PRO:HB3	1.78	0.48
2:C1:32:THR:HG23	2:C1:172:HIS:ND1	2.29	0.48
2:C1:84:PRO:HD3	2:C1:108:TRP:CZ2	2.49	0.48
2:C1:125:CYS:HB2	2:C1:199:LEU:HD11	1.94	0.48
2:C3:135:THR:HB	2:C3:139:ALA:CA	2.41	0.48
2:C4:167:THR:O	2:C4:168:ASN:HB3	2.13	0.48
2:C5:140:LEU:HD22	2:C5:190:ASN:CG	2.38	0.48
2:C5:227:PRO:HB3	3:D6:132:PRO:HB3	1.94	0.48
2:CA:200:SER:HA	3:DA:61:TYR:CE2	2.48	0.48
2:CE:152:TYR:CE1	3:DE:60:PRO:HG3	2.48	0.48
2:CF:140:LEU:HD22	2:CF:190:ASN:CG	2.38	0.48
2:CI:140:LEU:HD22	2:CI:190:ASN:CG	2.38	0.48
2:CJ:152:TYR:HE1	3:DJ:60:PRO:HB3	1.78	0.48
2:CL:84:PRO:HD3	2:CL:108:TRP:CZ2	2.49	0.48
2:CL:140:LEU:HD22	2:CL:190:ASN:CG	2.38	0.48
2:CL:149:ALA:O	2:CL:152:TYR:N	2.45	0.48
2:CN:110:VAL:CG1	2:CN:215:VAL:HA	2.43	0.48
2:CQ:140:LEU:HD22	2:CQ:190:ASN:CG	2.38	0.48
2:CS:84:PRO:HD2	2:CS:186:LEU:HD22	1.94	0.48
2:CU:84:PRO:HD3	2:CU:108:TRP:CZ2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CU:223:ASN:ND2	2:CU:223:ASN:N	2.60	0.48
2:CV:140:LEU:HD22	2:CV:190:ASN:CG	2.38	0.48
2:CW:152:TYR:HE1	3:DW:60:PRO:HB3	1.78	0.48
2:CW:200:SER:HA	3:DW:61:TYR:CE2	2.48	0.48
2:CX:32:THR:HG23	2:CX:172:HIS:ND1	2.29	0.48
2:CX:167:THR:O	2:CX:168:ASN:HB3	2.13	0.48
2:CZ:227:PRO:HB3	3:D0:132:PRO:HB3	1.94	0.48
2:Cb:223:ASN:ND2	2:Cb:223:ASN:N	2.60	0.48
2:Cc:110:VAL:CG1	2:Cc:215:VAL:HA	2.43	0.48
2:Cc:167:THR:O	2:Cc:168:ASN:HB3	2.14	0.48
2:Cf:140:LEU:HD22	2:Cf:190:ASN:CG	2.38	0.48
2:Cg:200:SER:HA	3:Dg:61:TYR:CE2	2.48	0.48
2:Ch:223:ASN:ND2	2:Ch:223:ASN:N	2.61	0.48
2:Ci:84:PRO:HD3	2:Ci:108:TRP:CZ2	2.49	0.48
2:Cj:32:THR:HG23	2:Cj:172:HIS:ND1	2.29	0.48
2:Cj:140:LEU:HD22	2:Cj:190:ASN:CG	2.38	0.48
2:Cj:149:ALA:O	2:Cj:152:TYR:N	2.45	0.48
2:Cj:152:TYR:HE1	3:Dj:60:PRO:HB3	1.78	0.48
2:Ck:140:LEU:HD22	2:Ck:190:ASN:OD1	2.12	0.48
2:Ck:152:TYR:CE1	3:Dk:60:PRO:HG3	2.48	0.48
2:Ck:227:PRO:HB3	3:Dl:132:PRO:HB3	1.94	0.48
2:Cm:115:ASN:CA	3:DD:119:LYS:HZ3	2.26	0.48
2:Cm:167:THR:O	2:Cm:168:ASN:HB3	2.13	0.48
2:Cm:180:PRO:HD2	2:Cm:189:HIS:HE1	1.77	0.48
2:Cn:115:ASN:HD22	3:De:190:ALA:C	2.17	0.48
2:Cn:125:CYS:HB2	2:Cn:199:LEU:HD11	1.94	0.48
2:Cn:200:SER:HA	3:Dn:61:TYR:CE2	2.48	0.48
2:Cq:84:PRO:HD3	2:Cq:108:TRP:CZ2	2.49	0.48
2:Cq:167:THR:O	2:Cq:168:ASN:HB3	2.13	0.48
2:Cq:223:ASN:ND2	2:Cq:223:ASN:N	2.61	0.48
2:Cs:149:ALA:O	2:Cs:152:TYR:N	2.45	0.48
2:Ct:84:PRO:HD2	2:Ct:186:LEU:HD22	1.94	0.48
3:D2:84:GLU:H	3:D2:84:GLU:CD	2.21	0.48
3:D7:56:ILE:CD1	3:D7:206:VAL:HG11	2.43	0.48
3:D7:130:ALA:O	3:D7:131:ALA:HB3	2.13	0.48
3:D8:19:PRO:HG3	4:F8:17:ASN:ND2	2.26	0.48
3:DB:121:LEU:HD23	3:DB:121:LEU:O	2.12	0.48
3:DD:56:ILE:CD1	3:DD:206:VAL:HG11	2.43	0.48
3:DF:97:PHE:CE1	3:DF:216:LEU:HD23	2.47	0.48
3:DI:3:ILE:HG22	3:DI:4:ARG:N	2.27	0.48
3:DI:130:ALA:O	3:DI:131:ALA:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:103:SER:HB2	3:DL:159:PRO:HA	1.95	0.48
3:DM:103:SER:HB3	3:DM:159:PRO:CA	2.35	0.48
3:DN:53:PHE:HB3	3:DN:60:PRO:HB2	1.96	0.48
3:DN:56:ILE:CD1	3:DN:206:VAL:HG11	2.43	0.48
3:DO:130:ALA:O	3:DO:131:ALA:HB3	2.13	0.48
3:DP:56:ILE:CD1	3:DP:206:VAL:HG11	2.43	0.48
3:DT:103:SER:HB2	3:DT:159:PRO:HA	1.95	0.48
3:DX:19:PRO:HG3	4:FX:17:ASN:ND2	2.26	0.48
3:Dc:75:GLN:HA	3:Dc:183:LEU:O	2.14	0.48
3:Dd:130:ALA:O	3:Dd:131:ALA:HB3	2.13	0.48
3:De:19:PRO:HG3	4:Fe:17:ASN:ND2	2.26	0.48
3:De:20:ASP:OD2	3:Dg:4:ARG:NH1	2.45	0.48
3:Df:75:GLN:HA	3:Df:183:LEU:O	2.14	0.48
3:Di:56:ILE:CD1	3:Di:206:VAL:HG11	2.43	0.48
3:Dk:73:LEU:HB3	3:Dk:185:VAL:O	2.14	0.48
3:Dk:75:GLN:HA	3:Dk:183:LEU:O	2.14	0.48
3:Dl:56:ILE:CD1	3:Dl:206:VAL:HG11	2.43	0.48
3:Do:75:GLN:HA	3:Do:183:LEU:O	2.14	0.48
3:Ds:53:PHE:HB3	3:Ds:60:PRO:HB2	1.96	0.48
3:EA:80:LEU:HD12	3:EA:80:LEU:H	1.77	0.48
3:EA:130:ALA:O	3:EA:131:ALA:HB3	2.13	0.48
3:EC:97:PHE:CE1	3:EC:216:LEU:HD23	2.48	0.48
3:ED:75:GLN:HA	3:ED:183:LEU:O	2.14	0.48
4:F5:30:TYR:N	4:F5:30:TYR:CD1	2.81	0.48
4:FB:30:TYR:CD1	4:FB:30:TYR:N	2.81	0.48
4:FK:25:PHE:O	4:FL:20:SER:HA	2.12	0.48
4:FK:30:TYR:N	4:FK:30:TYR:CD1	2.81	0.48
4:Ft:30:TYR:N	4:Ft:30:TYR:CD1	2.81	0.48
1:A0:237:HIS:O	3:D1:171:SER:HB2	2.13	0.48
1:A2:4:VAL:HG22	3:D3:151:ASN:O	2.14	0.48
1:A4:87:GLN:O	1:A4:88:PHE:CB	2.62	0.48
1:A4:128:VAL:HG11	1:A5:89:LYS:HG2	1.96	0.48
1:A4:176:ALA:C	1:A4:178:THR:H	2.22	0.48
1:A7:4:VAL:HG22	3:D8:151:ASN:O	2.13	0.48
1:A7:27:HIS:O	1:A7:33:LEU:HD21	2.13	0.48
1:A9:128:VAL:HG11	1:An:89:LYS:HG2	1.96	0.48
1:AA:170:PHE:CD2	1:AA:222:ARG:CZ	2.87	0.48
1:AB:237:HIS:HB2	3:DB:81:SER:O	2.14	0.48
1:AC:4:VAL:HG22	3:DC:151:ASN:O	2.14	0.48
1:AC:156:PHE:CG	3:DC:25:LEU:HD12	2.49	0.48
1:AE:187:LEU:HD12	1:AE:190:ALA:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:13:THR:C	1:AF:14:GLU:HG3	2.38	0.48
1:AG:113:THR:O	1:AG:133:LEU:HD12	2.14	0.48
1:AH:37:PHE:CD1	1:AH:212:ARG:HB2	2.49	0.48
1:AH:171:TYR:N	1:AH:185:ASN:OD1	2.44	0.48
1:AI:27:HIS:O	1:AI:33:LEU:HD21	2.13	0.48
1:AJ:160:TYR:CE1	1:AJ:167:VAL:HG23	2.48	0.48
1:AK:156:PHE:CG	3:DK:25:LEU:HD12	2.49	0.48
1:AK:160:TYR:CE1	1:AK:167:VAL:HG23	2.48	0.48
1:AL:237:HIS:O	3:DL:171:SER:HB2	2.13	0.48
1:AM:237:HIS:HB2	3:DM:81:SER:O	2.14	0.48
1:AM:237:HIS:O	3:DM:171:SER:HB2	2.13	0.48
1:AO:82:LEU:HD23	1:AO:84:LEU:HD11	1.94	0.48
1:AP:27:HIS:O	1:AP:33:LEU:HD21	2.13	0.48
1:AP:101:PHE:CD2	1:AP:143:VAL:HG11	2.44	0.48
1:AP:121:LEU:HD23	1:AQ:42:THR:OG1	2.13	0.48
1:AS:113:THR:O	1:AS:133:LEU:HD12	2.14	0.48
1:AT:4:VAL:HG22	3:DU:151:ASN:O	2.14	0.48
1:AV:37:PHE:CD1	1:AV:212:ARG:HB2	2.49	0.48
1:AW:128:VAL:HG11	1:AX:89:LYS:HG2	1.96	0.48
1:AX:156:PHE:CG	3:DY:25:LEU:HD12	2.49	0.48
1:AY:27:HIS:O	1:AY:33:LEU:HD21	2.13	0.48
1:Aa:150:ARG:HE	1:Aa:150:ARG:H	1.60	0.48
1:Ab:224:ILE:HD11	3:Dd:89:TYR:CZ	2.49	0.48
1:Ac:237:HIS:O	3:De:171:SER:HB2	2.13	0.48
1:Ae:237:HIS:HB2	3:Dg:81:SER:O	2.14	0.48
1:Ae:237:HIS:O	3:Dg:171:SER:HB2	2.13	0.48
1:Af:82:LEU:HD23	1:Af:84:LEU:HD11	1.94	0.48
1:Af:187:LEU:HD12	1:Af:190:ALA:HB2	1.94	0.48
1:Af:237:HIS:O	3:Dh:171:SER:HB2	2.13	0.48
1:Ag:187:LEU:HD12	1:Ag:190:ALA:HB2	1.94	0.48
1:Ah:224:ILE:HD11	3:Dj:89:TYR:CZ	2.49	0.48
1:Ai:27:HIS:O	1:Ai:33:LEU:HD21	2.13	0.48
1:Ak:224:ILE:HD11	3:Dm:89:TYR:CZ	2.49	0.48
1:Al:27:HIS:O	1:Al:33:LEU:HD21	2.13	0.48
1:Al:79:PHE:CD1	1:Al:79:PHE:C	2.92	0.48
1:Al:160:TYR:CE1	1:Al:167:VAL:HG23	2.48	0.48
1:Am:42:THR:OG1	1:BD:121:LEU:HD23	2.13	0.48
1:Ao:27:HIS:O	1:Ao:33:LEU:HD21	2.13	0.48
1:BB:113:THR:O	1:BB:133:LEU:HD12	2.14	0.48
1:BC:4:VAL:HG22	3:Dr:151:ASN:O	2.14	0.48
1:BC:128:VAL:HG11	1:BD:89:LYS:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:37:PHE:CD1	1:BF:212:ARG:HB2	2.49	0.48
1:BG:238:LYS:HA	3:EC:171:SER:O	2.12	0.48
1:BH:13:THR:C	1:BH:14:GLU:HG3	2.37	0.48
1:BI:113:THR:O	1:BI:133:LEU:HD12	2.14	0.48
2:C1:110:VAL:CG1	2:C1:215:VAL:HA	2.43	0.48
2:C4:73:GLN:HA	2:C4:73:GLN:NE2	2.17	0.48
2:C4:152:TYR:CE1	3:D4:60:PRO:HG3	2.48	0.48
2:C7:84:PRO:HD3	2:C7:108:TRP:CZ2	2.49	0.48
2:CA:223:ASN:ND2	2:CA:223:ASN:N	2.60	0.48
2:CB:152:TYR:HE1	3:DB:60:PRO:HB3	1.78	0.48
2:CB:167:THR:O	2:CB:168:ASN:HB3	2.13	0.48
2:CC:110:VAL:CG1	2:CC:215:VAL:HA	2.43	0.48
2:CF:110:VAL:CG1	2:CF:215:VAL:HA	2.43	0.48
2:CH:180:PRO:HD2	2:CH:189:HIS:HE1	1.76	0.48
2:CL:42:ARG:HA	2:CL:43:PRO:HD2	1.65	0.48
2:CL:110:VAL:CG1	2:CL:215:VAL:HA	2.43	0.48
2:CM:110:VAL:CG1	2:CM:215:VAL:HA	2.43	0.48
2:CS:223:ASN:ND2	2:CS:223:ASN:N	2.61	0.48
2:CT:227:PRO:HB3	3:DP:132:PRO:HB3	1.94	0.48
2:CV:32:THR:HG23	2:CV:172:HIS:ND1	2.29	0.48
2:CW:32:THR:HG23	2:CW:172:HIS:ND1	2.28	0.48
2:CW:110:VAL:CG1	2:CW:215:VAL:HA	2.43	0.48
2:CZ:140:LEU:HD22	2:CZ:190:ASN:CG	2.38	0.48
2:CZ:200:SER:HA	3:DZ:61:TYR:CE2	2.48	0.48
2:Ca:84:PRO:HD3	2:Ca:108:TRP:CZ2	2.49	0.48
2:Ca:84:PRO:HD2	2:Ca:186:LEU:HD22	1.95	0.48
2:Cc:158:PHE:O	2:Cc:159:PRO:C	2.55	0.48
2:Cd:200:SER:HA	3:Dd:61:TYR:CE2	2.48	0.48
2:Ce:140:LEU:HD22	2:Ce:190:ASN:CG	2.38	0.48
2:Ce:158:PHE:O	2:Ce:159:PRO:C	2.55	0.48
2:Cj:83:LEU:HA	2:Cj:84:PRO:HA	1.60	0.48
2:Cj:110:VAL:CG1	2:Cj:215:VAL:HA	2.43	0.48
2:Ck:110:VAL:CG1	2:Ck:215:VAL:HA	2.43	0.48
2:Cl:152:TYR:CE1	3:Dl:60:PRO:HG3	2.48	0.48
2:Cn:135:THR:HB	2:Cn:139:ALA:CA	2.41	0.48
2:Cr:32:THR:HG23	2:Cr:172:HIS:ND1	2.29	0.48
2:Cs:110:VAL:CG1	2:Cs:213:MET:HE3	2.42	0.48
2:Cu:84:PRO:HD2	2:Cu:186:LEU:HD22	1.95	0.48
2:Cu:110:VAL:CG1	2:Cu:213:MET:HE3	2.42	0.48
2:Cw:152:TYR:HE1	3:ED:60:PRO:HB3	1.78	0.48
2:Cx:46:THR:CG2	3:EA:165:ASP:HA	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cx:226:LEU:CD2	3:EA:126:PRO:HG2	2.36	0.48
3:D0:56:ILE:CD1	3:D0:206:VAL:HG11	2.43	0.48
3:D0:97:PHE:CE1	3:D0:216:LEU:HD23	2.47	0.48
3:D0:130:ALA:O	3:D0:131:ALA:HB3	2.13	0.48
3:D1:73:LEU:HB3	3:D1:185:VAL:O	2.14	0.48
3:D3:80:LEU:HD12	3:D3:80:LEU:H	1.77	0.48
3:D4:56:ILE:CD1	3:D4:206:VAL:HG11	2.43	0.48
3:D5:20:ASP:OD2	3:D7:4:ARG:NH1	2.45	0.48
3:D5:73:LEU:HB3	3:D5:185:VAL:O	2.14	0.48
3:D5:101:ARG:HA	3:D5:160:TYR:CE2	2.48	0.48
3:D6:53:PHE:HB3	3:D6:60:PRO:CB	2.44	0.48
3:D6:53:PHE:HB3	3:D6:60:PRO:HB2	1.95	0.48
3:D6:73:LEU:HB3	3:D6:185:VAL:O	2.14	0.48
3:D6:97:PHE:CE1	3:D6:216:LEU:HD23	2.48	0.48
3:D6:121:LEU:HD23	3:D6:121:LEU:O	2.12	0.48
3:DA:56:ILE:CD1	3:DA:206:VAL:HG11	2.43	0.48
3:DB:56:ILE:CD1	3:DB:206:VAL:HG11	2.43	0.48
3:DC:80:LEU:HD12	3:DC:80:LEU:H	1.77	0.48
3:DE:75:GLN:HA	3:DE:183:LEU:O	2.14	0.48
3:DE:130:ALA:O	3:DE:131:ALA:HB3	2.13	0.48
3:DJ:75:GLN:HA	3:DJ:183:LEU:O	2.14	0.48
3:DR:73:LEU:HB3	3:DR:185:VAL:O	2.14	0.48
3:DY:56:ILE:CD1	3:DY:206:VAL:HG11	2.43	0.48
3:Dd:103:SER:HB3	3:Dd:159:PRO:CA	2.35	0.48
3:Dj:75:GLN:HA	3:Dj:183:LEU:O	2.14	0.48
3:Dp:75:GLN:HA	3:Dp:183:LEU:O	2.14	0.48
3:Ds:101:ARG:HA	3:Ds:160:TYR:CE2	2.48	0.48
3:ED:101:ARG:HA	3:ED:160:TYR:CE2	2.48	0.48
4:F4:25:PHE:O	4:F5:20:SER:HA	2.12	0.48
4:FB:25:PHE:O	4:FC:20:SER:HA	2.12	0.48
4:FF:25:PHE:O	4:FG:20:SER:HA	2.12	0.48
4:FH:25:PHE:O	4:FI:20:SER:HA	2.12	0.48
4:FU:30:TYR:N	4:FU:30:TYR:CD1	2.81	0.48
4:FW:25:PHE:O	4:FX:20:SER:HA	2.12	0.48
4:Fd:30:TYR:N	4:Fd:30:TYR:CD1	2.81	0.48
4:Fo:20:SER:HA	4:Fs:25:PHE:O	2.12	0.48
4:Fw:30:TYR:N	4:Fw:30:TYR:CD1	2.81	0.48
1:A0:27:HIS:O	1:A0:33:LEU:HD21	2.13	0.48
1:A0:37:PHE:CD1	1:A0:212:ARG:HB2	2.49	0.48
1:A0:101:PHE:CD2	1:A0:143:VAL:HG11	2.44	0.48
1:A1:4:VAL:HG22	3:D2:151:ASN:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:40:VAL:HG22	1:A1:211:TYR:HE1	1.77	0.48
1:A2:27:HIS:O	1:A2:33:LEU:HD21	2.13	0.48
1:A2:224:ILE:HD11	3:D3:89:TYR:CZ	2.49	0.48
1:A3:160:TYR:CE1	1:A3:167:VAL:HG23	2.48	0.48
1:A4:224:ILE:HD11	3:D5:89:TYR:CZ	2.49	0.48
1:A4:239:PHE:CD1	3:D5:170:TYR:CD2	2.96	0.48
1:A5:4:VAL:HG22	3:D6:151:ASN:O	2.14	0.48
1:A5:150:ARG:HE	1:A5:150:ARG:H	1.60	0.48
1:A7:82:LEU:HD23	1:A7:84:LEU:HD11	1.94	0.48
1:A7:105:LYS:HE3	1:A7:139:SER:OG	2.13	0.48
1:A9:37:PHE:CD1	1:A9:212:ARG:HB2	2.49	0.48
1:A9:237:HIS:HB2	3:Da:81:SER:O	2.14	0.48
1:AA:87:GLN:O	1:AA:88:PHE:CB	2.62	0.48
1:AB:160:TYR:CE1	1:AB:167:VAL:HG23	2.48	0.48
1:AB:171:TYR:N	1:AB:185:ASN:OD1	2.45	0.48
1:AD:13:THR:C	1:AD:14:GLU:HG3	2.38	0.48
1:AE:27:HIS:O	1:AE:33:LEU:HD21	2.13	0.48
1:AE:43:LEU:N	1:AE:43:LEU:CD2	2.74	0.48
1:AF:79:PHE:CD1	1:AF:79:PHE:C	2.92	0.48
1:AF:237:HIS:HB2	3:DF:81:SER:O	2.14	0.48
1:AG:4:VAL:HG22	3:DG:151:ASN:O	2.14	0.48
1:AG:176:ALA:C	1:AG:178:THR:H	2.22	0.48
1:AH:27:HIS:O	1:AH:33:LEU:HD21	2.13	0.48
1:AI:237:HIS:HB2	3:DI:81:SER:O	2.14	0.48
1:AL:113:THR:O	1:AL:133:LEU:HD12	2.14	0.48
1:AM:43:LEU:N	1:AM:43:LEU:CD2	2.74	0.48
1:AN:103:TRP:HB2	1:AN:198:THR:HG23	1.96	0.48
1:AN:156:PHE:CG	3:DN:25:LEU:HD12	2.49	0.48
1:AN:224:ILE:HD11	3:DN:89:TYR:CZ	2.49	0.48
1:AO:101:PHE:O	1:AO:199:SER:CB	2.62	0.48
1:AP:101:PHE:O	1:AP:199:SER:CB	2.62	0.48
1:AS:79:PHE:CD1	1:AS:79:PHE:C	2.92	0.48
1:AT:113:THR:O	1:AT:133:LEU:HD12	2.14	0.48
1:AU:13:THR:C	1:AU:14:GLU:HG3	2.38	0.48
1:AU:237:HIS:O	3:DV:171:SER:HB2	2.13	0.48
1:AW:103:TRP:HB2	1:AW:198:THR:HG23	1.96	0.48
1:AX:79:PHE:CD1	1:AX:79:PHE:C	2.92	0.48
1:AY:113:THR:O	1:AY:133:LEU:HD12	2.14	0.48
1:AZ:86:ILE:HD12	1:AZ:86:ILE:H	1.72	0.48
1:AZ:239:PHE:CD1	3:D0:170:TYR:CD2	2.96	0.48
1:Aa:4:VAL:HG22	3:Dc:151:ASN:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:37:PHE:CD1	1:Ab:212:ARG:HB2	2.49	0.48
1:Ab:160:TYR:CE1	1:Ab:167:VAL:HG23	2.48	0.48
1:Ad:128:VAL:HG11	1:Ae:89:LYS:HG2	1.96	0.48
1:Ad:224:ILE:HD11	3:Df:89:TYR:CZ	2.49	0.48
1:Ae:128:VAL:HG11	1:Af:89:LYS:HG2	1.96	0.48
1:Ag:79:PHE:CD1	1:Ag:79:PHE:C	2.92	0.48
1:Ag:82:LEU:HD23	1:Ag:84:LEU:HD11	1.94	0.48
1:Ag:224:ILE:HD11	3:Di:89:TYR:CZ	2.49	0.48
1:Ag:237:HIS:HB2	3:Di:81:SER:O	2.14	0.48
1:Ai:30:VAL:CG1	1:Ai:218:MET:HE3	2.34	0.48
1:Ai:37:PHE:CD1	1:Ai:212:ARG:HB2	2.49	0.48
1:Ai:128:VAL:HG11	1:Aj:89:LYS:HG2	1.96	0.48
1:Ai:176:ALA:C	1:Ai:178:THR:H	2.22	0.48
1:Aj:27:HIS:O	1:Aj:33:LEU:HD21	2.13	0.48
1:Ak:27:HIS:O	1:Ak:33:LEU:HD21	2.13	0.48
1:Ak:128:VAL:HG11	1:Al:89:LYS:HG2	1.96	0.48
1:Al:4:VAL:HG22	3:Dn:151:ASN:O	2.14	0.48
1:Al:87:GLN:O	1:Al:88:PHE:CB	2.62	0.48
1:Am:101:PHE:O	1:Am:199:SER:CB	2.62	0.48
1:Am:113:THR:O	1:Am:133:LEU:HD12	2.14	0.48
1:Am:156:PHE:CG	3:Do:25:LEU:HD12	2.49	0.48
1:An:157:SER:CB	3:Db:24:PRO:HA	2.35	0.48
1:BB:27:HIS:O	1:BB:33:LEU:HD21	2.13	0.48
1:BC:87:GLN:O	1:BC:88:PHE:CB	2.62	0.48
1:BC:239:PHE:CD1	3:Dr:170:TYR:CD2	2.96	0.48
1:BD:156:PHE:CG	3:Ds:25:LEU:HD12	2.49	0.48
1:BE:224:ILE:HD11	3:EA:89:TYR:CZ	2.49	0.48
1:BF:82:LEU:HD23	1:BF:84:LEU:HD11	1.94	0.48
1:BF:156:PHE:CG	3:EB:25:LEU:HD12	2.49	0.48
1:BG:4:VAL:HG22	3:EC:151:ASN:O	2.14	0.48
1:BG:37:PHE:CD1	1:BG:212:ARG:HB2	2.49	0.48
1:BH:176:ALA:C	1:BH:178:THR:H	2.22	0.48
1:BH:237:HIS:HB2	3:ED:81:SER:O	2.14	0.48
1:BI:27:HIS:O	1:BI:33:LEU:HD21	2.13	0.48
1:BI:187:LEU:HD12	1:BI:190:ALA:HB2	1.94	0.48
2:C0:140:LEU:HD22	2:C0:190:ASN:CG	2.38	0.48
2:C1:200:SER:HA	3:D1:61:TYR:CE2	2.48	0.48
2:C2:152:TYR:HE1	3:D2:60:PRO:HB3	1.78	0.48
2:C3:176:PRO:HD2	2:C3:192:TRP:CZ2	2.49	0.48
2:C4:84:PRO:HD3	2:C4:108:TRP:CZ2	2.49	0.48
2:C4:110:VAL:CG1	2:C4:215:VAL:HA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:152:TYR:HE1	3:D6:60:PRO:HB3	1.78	0.48
2:C7:110:VAL:CG1	2:C7:215:VAL:HA	2.43	0.48
2:C9:176:PRO:HD2	2:C9:192:TRP:CZ2	2.49	0.48
2:CA:176:PRO:HD2	2:CA:192:TRP:CZ2	2.49	0.48
2:CC:167:THR:O	2:CC:168:ASN:HB3	2.13	0.48
2:CF:167:THR:O	2:CF:168:ASN:HB3	2.13	0.48
2:CI:32:THR:HG23	2:CI:172:HIS:ND1	2.28	0.48
2:CK:135:THR:HB	2:CK:139:ALA:CA	2.41	0.48
2:CK:223:ASN:ND2	2:CK:223:ASN:N	2.60	0.48
2:CM:167:THR:O	2:CM:168:ASN:HB3	2.13	0.48
2:CN:140:LEU:HD22	2:CN:190:ASN:CG	2.38	0.48
2:CN:152:TYR:CE1	3:DN:60:PRO:HG3	2.48	0.48
2:CO:110:VAL:CG1	2:CO:215:VAL:HA	2.43	0.48
2:CO:176:PRO:HD2	2:CO:192:TRP:CZ2	2.49	0.48
2:CP:84:PRO:HD3	2:CP:108:TRP:CZ2	2.49	0.48
2:CR:223:ASN:ND2	2:CR:223:ASN:N	2.60	0.48
2:CS:84:PRO:HD3	2:CS:108:TRP:CZ2	2.49	0.48
2:CS:110:VAL:CG1	2:CS:213:MET:HE3	2.42	0.48
2:CS:135:THR:HB	2:CS:139:ALA:CA	2.41	0.48
2:CS:140:LEU:HD22	2:CS:190:ASN:CG	2.38	0.48
2:CU:180:PRO:HD2	2:CU:189:HIS:HE1	1.76	0.48
2:CV:84:PRO:HD2	2:CV:186:LEU:HD22	1.94	0.48
2:CX:227:PRO:HB3	3:DY:132:PRO:HB3	1.94	0.48
2:CY:223:ASN:ND2	2:CY:223:ASN:N	2.60	0.48
2:Cg:42:ARG:HA	2:Cg:43:PRO:HD2	1.64	0.48
2:Ci:125:CYS:HB2	2:Ci:199:LEU:HD11	1.94	0.48
2:Ck:200:SER:HA	3:Dk:61:TYR:CE2	2.48	0.48
2:Cm:110:VAL:CG1	2:Cm:213:MET:HE3	2.42	0.48
2:Cn:110:VAL:CG1	2:Cn:213:MET:HE3	2.42	0.48
2:Cp:84:PRO:HD2	2:Cp:186:LEU:HD22	1.94	0.48
2:Cs:152:TYR:CE1	3:Ds:60:PRO:HG3	2.48	0.48
2:Ct:110:VAL:CG1	2:Ct:215:VAL:HA	2.43	0.48
2:Cu:46:THR:CG2	3:EC:165:ASP:HA	2.38	0.48
2:Cw:125:CYS:HB2	2:Cw:199:LEU:HD11	1.94	0.48
2:Cw:152:TYR:CE1	3:ED:60:PRO:HG3	2.48	0.48
2:Cw:226:LEU:CD2	3:EE:126:PRO:HG2	2.36	0.48
2:Cx:32:THR:HG23	2:Cx:172:HIS:ND1	2.29	0.48
3:D5:3:ILE:HG22	3:D5:4:ARG:N	2.27	0.48
3:D6:19:PRO:HG3	4:F6:17:ASN:ND2	2.26	0.48
3:D6:80:LEU:HD12	3:D6:80:LEU:H	1.77	0.48
3:D8:53:PHE:HB3	3:D8:60:PRO:CB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:53:PHE:HB3	3:DA:60:PRO:CB	2.44	0.48
3:DB:130:ALA:O	3:DB:131:ALA:HB3	2.13	0.48
3:DC:56:ILE:CD1	3:DC:206:VAL:HG11	2.43	0.48
3:DC:75:GLN:HA	3:DC:183:LEU:O	2.14	0.48
3:DD:73:LEU:HB3	3:DD:185:VAL:O	2.14	0.48
3:DD:101:ARG:HA	3:DD:160:TYR:CE2	2.48	0.48
3:DE:53:PHE:HB3	3:DE:60:PRO:CB	2.44	0.48
3:DE:53:PHE:HB3	3:DE:60:PRO:HB2	1.95	0.48
3:DE:101:ARG:HA	3:DE:160:TYR:CE2	2.48	0.48
3:DI:101:ARG:HA	3:DI:160:TYR:CE2	2.48	0.48
3:DN:53:PHE:HB3	3:DN:60:PRO:CB	2.44	0.48
3:DP:75:GLN:HA	3:DP:183:LEU:O	2.14	0.48
3:DQ:53:PHE:HB3	3:DQ:60:PRO:CB	2.44	0.48
3:DQ:130:ALA:O	3:DQ:131:ALA:HB3	2.13	0.48
3:DS:101:ARG:HA	3:DS:160:TYR:CE2	2.48	0.48
3:DT:56:ILE:CD1	3:DT:206:VAL:HG11	2.43	0.48
3:DU:70:ASP:HA	3:DU:135:ARG:HH12	1.79	0.48
3:DU:101:ARG:HA	3:DU:160:TYR:CE2	2.48	0.48
3:DW:73:LEU:HB3	3:DW:185:VAL:O	2.14	0.48
3:DY:101:ARG:HA	3:DY:160:TYR:CE2	2.48	0.48
3:Db:80:LEU:HD12	3:Db:80:LEU:H	1.77	0.48
3:Db:101:ARG:HA	3:Db:160:TYR:CE2	2.48	0.48
3:Dd:36:VAL:HA	3:Dd:37:PRO:HD3	1.53	0.48
3:Dd:101:ARG:HA	3:Dd:160:TYR:CE2	2.48	0.48
3:De:53:PHE:HB3	3:De:60:PRO:CB	2.44	0.48
3:Df:53:PHE:HB3	3:Df:60:PRO:CB	2.44	0.48
3:Df:84:GLU:CD	3:Df:84:GLU:H	2.21	0.48
3:Dh:70:ASP:HA	3:Dh:135:ARG:HH12	1.79	0.48
3:Dh:75:GLN:HA	3:Dh:183:LEU:O	2.14	0.48
3:Dj:130:ALA:O	3:Dj:131:ALA:HB3	2.13	0.48
3:Dm:101:ARG:HA	3:Dm:160:TYR:CE2	2.48	0.48
3:Do:56:ILE:CD1	3:Do:206:VAL:HG11	2.43	0.48
3:Dq:56:ILE:CD1	3:Dq:206:VAL:HG11	2.43	0.48
3:Dq:70:ASP:HA	3:Dq:135:ARG:HH12	1.79	0.48
3:EA:75:GLN:HA	3:EA:183:LEU:O	2.14	0.48
3:EB:130:ALA:O	3:EB:131:ALA:HB3	2.13	0.48
3:ED:56:ILE:CD1	3:ED:206:VAL:HG11	2.43	0.48
3:EE:56:ILE:CD1	3:EE:206:VAL:HG11	2.43	0.48
3:EE:73:LEU:HB3	3:EE:185:VAL:O	2.14	0.48
4:F0:20:SER:HA	4:FZ:25:PHE:O	2.12	0.48
4:F2:30:TYR:N	4:F2:30:TYR:CD1	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:30:TYR:N	4:FI:30:TYR:CD1	2.81	0.48
4:FL:30:TYR:CD1	4:FL:30:TYR:N	2.81	0.48
4:FT:30:TYR:N	4:FT:30:TYR:CD1	2.81	0.48
4:FX:25:PHE:O	4:FY:20:SER:HA	2.12	0.48
4:Ff:25:PHE:O	4:Fg:20:SER:HA	2.12	0.48
1:A0:82:LEU:HD23	1:A0:84:LEU:HD11	1.94	0.48
1:A1:128:VAL:HG11	1:A2:89:LYS:HG2	1.96	0.48
1:A2:40:VAL:HG22	1:A2:211:TYR:HE1	1.77	0.48
1:A3:4:VAL:HG22	3:D4:151:ASN:O	2.14	0.48
1:A3:89:LYS:HG2	1:A7:128:VAL:HG11	1.96	0.48
1:A3:237:HIS:O	3:D4:171:SER:HB2	2.13	0.48
1:A4:237:HIS:HB2	3:D5:81:SER:O	2.13	0.48
1:A5:43:LEU:N	1:A5:43:LEU:CD2	2.74	0.48
1:A5:101:PHE:O	1:A5:199:SER:CB	2.62	0.48
1:A5:113:THR:O	1:A5:133:LEU:HD12	2.14	0.48
1:A6:82:LEU:HD23	1:A6:84:LEU:HD11	1.94	0.48
1:A6:87:GLN:O	1:A6:88:PHE:CB	2.62	0.48
1:A9:176:ALA:C	1:A9:178:THR:H	2.22	0.48
1:AA:4:VAL:HG22	3:DA:151:ASN:O	2.14	0.48
1:AA:79:PHE:CD1	1:AA:79:PHE:C	2.92	0.48
1:AA:128:VAL:HG11	1:AB:89:LYS:HG2	1.96	0.48
1:AB:37:PHE:CD1	1:AB:212:ARG:HB2	2.49	0.48
1:AB:79:PHE:CD1	1:AB:79:PHE:C	2.92	0.48
1:AB:156:PHE:CG	3:DB:25:LEU:HD12	2.49	0.48
1:AC:79:PHE:CD1	1:AC:79:PHE:C	2.92	0.48
1:AC:101:PHE:O	1:AC:199:SER:CB	2.62	0.48
1:AD:43:LEU:N	1:AD:43:LEU:CD2	2.74	0.48
1:AD:170:PHE:CD2	1:AD:222:ARG:CZ	2.87	0.48
1:AD:176:ALA:C	1:AD:178:THR:H	2.22	0.48
1:AE:37:PHE:CD1	1:AE:212:ARG:HB2	2.49	0.48
1:AE:101:PHE:O	1:AE:199:SER:CB	2.62	0.48
1:AE:113:THR:O	1:AE:133:LEU:HD12	2.14	0.48
1:AF:89:LYS:HG2	1:AJ:128:VAL:HG11	1.96	0.48
1:AF:121:LEU:HD23	1:AG:42:THR:OG1	2.13	0.48
1:AG:37:PHE:CD1	1:AG:212:ARG:HB2	2.49	0.48
1:AG:50:GLY:O	1:AG:131:GLN:NE2	2.43	0.48
1:AG:79:PHE:CD1	1:AG:79:PHE:C	2.92	0.48
1:AG:224:ILE:HD11	3:DG:89:TYR:CZ	2.49	0.48
1:AH:128:VAL:HG11	1:AI:89:LYS:HG2	1.96	0.48
1:AI:4:VAL:HG22	3:DI:151:ASN:O	2.14	0.48
1:AI:128:VAL:HG11	1:AJ:89:LYS:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:156:PHE:CG	3:DI:25:LEU:HD12	2.49	0.48
1:AI:224:ILE:HD11	3:DI:89:TYR:CZ	2.49	0.48
1:AJ:87:GLN:O	1:AJ:88:PHE:CB	2.62	0.48
1:AJ:101:PHE:O	1:AJ:199:SER:CB	2.62	0.48
1:AJ:105:LYS:HE3	1:AJ:139:SER:OG	2.14	0.48
1:AJ:176:ALA:C	1:AJ:178:THR:H	2.22	0.48
1:AK:42:THR:OG1	1:AO:121:LEU:HD23	2.13	0.48
1:AK:128:VAL:HG11	1:AL:89:LYS:HG2	1.96	0.48
1:AL:128:VAL:HG11	1:AM:89:LYS:HG2	1.96	0.48
1:AM:113:THR:O	1:AM:133:LEU:HD12	2.14	0.48
1:AM:128:VAL:HG11	1:AN:89:LYS:HG2	1.96	0.48
1:AO:37:PHE:CD1	1:AO:212:ARG:HB2	2.49	0.48
1:AO:40:VAL:HG22	1:AO:211:TYR:HE1	1.77	0.48
1:AP:105:LYS:HE3	1:AP:139:SER:OG	2.13	0.48
1:AQ:128:VAL:HG11	1:AR:89:LYS:HG2	1.96	0.48
1:AQ:224:ILE:HD11	3:DQ:89:TYR:CZ	2.49	0.48
1:AR:113:THR:O	1:AR:133:LEU:HD12	2.14	0.48
1:AR:128:VAL:HG11	1:Ao:89:LYS:HG2	1.96	0.48
1:AR:224:ILE:HD11	3:DR:89:TYR:CZ	2.49	0.48
1:AR:237:HIS:HB2	3:DR:81:SER:O	2.14	0.48
1:AT:37:PHE:CD1	1:AT:212:ARG:HB2	2.49	0.48
1:AV:19:LEU:HD12	2:CV:48:SER:HB2	1.93	0.48
1:AV:128:VAL:HG11	1:AW:89:LYS:HG2	1.96	0.48
1:AW:237:HIS:O	3:DX:171:SER:HB2	2.13	0.48
1:AX:237:HIS:HB2	3:DY:81:SER:O	2.14	0.48
1:AY:79:PHE:CD1	1:AY:79:PHE:C	2.92	0.48
1:Aa:37:PHE:CD1	1:Aa:212:ARG:HB2	2.49	0.48
1:Aa:128:VAL:HG11	1:Ab:89:LYS:HG2	1.96	0.48
1:Aa:224:ILE:HD11	3:Dc:89:TYR:CZ	2.49	0.48
1:Ab:156:PHE:CG	3:Dd:25:LEU:HD12	2.49	0.48
1:Ab:187:LEU:HD12	1:Ab:190:ALA:HB2	1.94	0.48
1:Ab:237:HIS:HB2	3:Dd:81:SER:O	2.14	0.48
1:Ad:79:PHE:CD1	1:Ad:79:PHE:C	2.92	0.48
1:Ad:103:TRP:HB2	1:Ad:198:THR:HG23	1.96	0.48
1:Af:37:PHE:CD1	1:Af:212:ARG:HB2	2.49	0.48
1:Af:137:GLY:HA2	1:Ag:38:PHE:CD1	2.48	0.48
1:Ah:113:THR:O	1:Ah:133:LEU:HD12	2.14	0.48
1:Ai:139:SER:HA	1:Ai:140:PRO:HD3	1.62	0.48
1:Aj:4:VAL:HG22	3:Dl:151:ASN:O	2.13	0.48
1:Aj:40:VAL:HG22	1:Aj:211:TYR:HE1	1.77	0.48
1:Aj:101:PHE:O	1:Aj:199:SER:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aj:103:TRP:HB2	1:Aj:198:THR:HG23	1.96	0.48
1:Aj:224:ILE:HD11	3:Dl:89:TYR:CZ	2.49	0.48
1:Aj:237:HIS:O	3:Dl:171:SER:HB2	2.13	0.48
1:Aj:239:PHE:CD1	3:Dl:170:TYR:CD2	2.96	0.48
1:Ak:101:PHE:O	1:Ak:199:SER:CB	2.62	0.48
1:Am:4:VAL:HG22	3:Do:151:ASN:O	2.14	0.48
1:Am:37:PHE:CD1	1:Am:212:ARG:HB2	2.49	0.48
1:An:27:HIS:O	1:An:33:LEU:HD21	2.13	0.48
1:Ao:4:VAL:HG22	3:DS:151:ASN:O	2.14	0.48
1:Ao:160:TYR:CE1	1:Ao:167:VAL:HG23	2.48	0.48
1:BA:79:PHE:CD1	1:BA:79:PHE:C	2.92	0.48
1:BB:160:TYR:CE1	1:BB:167:VAL:HG23	2.48	0.48
1:BB:176:ALA:C	1:BB:178:THR:H	2.22	0.48
1:BC:27:HIS:O	1:BC:33:LEU:HD21	2.13	0.48
1:BD:87:GLN:O	1:BD:88:PHE:CB	2.62	0.48
1:BD:237:HIS:HB2	3:Ds:81:SER:O	2.14	0.48
1:BE:176:ALA:C	1:BE:178:THR:H	2.22	0.48
1:BF:128:VAL:HG11	1:BG:89:LYS:HG2	1.96	0.48
1:BG:87:GLN:O	1:BG:88:PHE:CB	2.62	0.48
1:BG:187:LEU:HD12	1:BG:190:ALA:HB2	1.94	0.48
2:C1:227:PRO:HB3	3:D2:132:PRO:HB3	1.94	0.48
2:C2:153:GLN:CD	3:D2:55:SER:HB2	2.39	0.48
2:C3:32:THR:HG23	2:C3:172:HIS:ND1	2.29	0.48
2:C3:152:TYR:HE1	3:D3:60:PRO:HB3	1.78	0.48
2:C7:140:LEU:HD22	2:C7:190:ASN:CG	2.38	0.48
2:C7:152:TYR:CE1	3:D7:60:PRO:HG3	2.48	0.48
2:CA:84:PRO:HD2	2:CA:186:LEU:HD22	1.95	0.48
2:CA:140:LEU:HD22	2:CA:190:ASN:CG	2.38	0.48
2:CB:32:THR:HG23	2:CB:172:HIS:ND1	2.28	0.48
2:CB:152:TYR:CE1	3:DB:60:PRO:HG3	2.48	0.48
2:CB:153:GLN:CD	3:DB:55:SER:HB2	2.39	0.48
2:CB:226:LEU:CD2	3:DC:126:PRO:HG2	2.36	0.48
2:CC:84:PRO:HD3	2:CC:108:TRP:CZ2	2.49	0.48
2:CC:180:PRO:HD2	2:CC:189:HIS:HE1	1.77	0.48
2:CC:200:SER:HA	3:DC:61:TYR:CE2	2.48	0.48
2:CD:158:PHE:O	2:CD:159:PRO:C	2.55	0.48
2:CG:152:TYR:HE1	3:DG:60:PRO:HB3	1.78	0.48
2:CH:167:THR:O	2:CH:168:ASN:HB3	2.14	0.48
2:CJ:32:THR:HG23	2:CJ:172:HIS:ND1	2.29	0.48
2:CJ:110:VAL:CG1	2:CJ:215:VAL:HA	2.43	0.48
2:CJ:153:GLN:CD	3:DJ:55:SER:HB2	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CK:84:PRO:HD3	2:CK:108:TRP:CZ2	2.49	0.48
2:CK:140:LEU:HD22	2:CK:190:ASN:CG	2.38	0.48
2:CL:223:ASN:ND2	2:CL:223:ASN:N	2.60	0.48
2:CN:167:THR:O	2:CN:168:ASN:HB3	2.13	0.48
2:CP:227:PRO:HB3	3:DQ:132:PRO:HB3	1.94	0.48
2:CR:84:PRO:HD2	2:CR:186:LEU:HD22	1.95	0.48
2:CT:158:PHE:O	2:CT:159:PRO:C	2.55	0.48
2:CU:115:ASN:CA	3:Dg:119:LYS:HZ3	2.27	0.48
2:CW:84:PRO:HD3	2:CW:108:TRP:CZ2	2.49	0.48
2:CW:176:PRO:HD2	2:CW:192:TRP:CZ2	2.49	0.48
2:CX:84:PRO:HD3	2:CX:108:TRP:CZ2	2.49	0.48
2:CX:223:ASN:ND2	2:CX:223:ASN:N	2.60	0.48
2:Cb:227:PRO:HB3	3:Dc:132:PRO:HB3	1.94	0.48
2:Cc:73:GLN:HA	2:Cc:73:GLN:NE2	2.17	0.48
2:Cd:223:ASN:ND2	2:Cd:223:ASN:N	2.60	0.48
2:Ce:84:PRO:HD3	2:Ce:108:TRP:CZ2	2.49	0.48
2:Ce:176:PRO:HD2	2:Ce:192:TRP:CZ2	2.49	0.48
2:Cf:167:THR:O	2:Cf:168:ASN:HB3	2.13	0.48
2:Cg:140:LEU:HD22	2:Cg:190:ASN:CG	2.38	0.48
2:Ch:227:PRO:HB3	3:Di:132:PRO:HB3	1.94	0.48
2:Cj:84:PRO:HD2	2:Cj:186:LEU:HD22	1.94	0.48
2:Ck:140:LEU:HD22	2:Ck:190:ASN:CG	2.39	0.48
2:Cm:176:PRO:HD2	2:Cm:192:TRP:CZ2	2.49	0.48
2:Cn:152:TYR:HE1	3:Dn:60:PRO:HB3	1.78	0.48
2:Co:32:THR:HG23	2:Co:172:HIS:ND1	2.28	0.48
2:Cq:84:PRO:HD2	2:Cq:186:LEU:HD22	1.95	0.48
2:Ct:32:THR:HG23	2:Ct:172:HIS:ND1	2.29	0.48
2:Ct:153:GLN:CD	3:EA:55:SER:HB2	2.39	0.48
2:Cu:32:THR:HG23	2:Cu:172:HIS:ND1	2.29	0.48
2:Cu:176:PRO:HD2	2:Cu:192:TRP:CZ2	2.49	0.48
2:Cv:84:PRO:HD3	2:Cv:108:TRP:CZ2	2.49	0.48
2:Cv:153:GLN:CD	3:EC:55:SER:HB2	2.39	0.48
3:D1:70:ASP:HA	3:D1:135:ARG:HH12	1.79	0.48
3:D5:53:PHE:HB3	3:D5:60:PRO:CB	2.44	0.48
3:D8:75:GLN:HA	3:D8:183:LEU:O	2.14	0.48
3:D8:130:ALA:O	3:D8:131:ALA:HB3	2.13	0.48
3:D9:53:PHE:HB3	3:D9:60:PRO:CB	2.44	0.48
3:D9:75:GLN:HA	3:D9:183:LEU:O	2.14	0.48
3:DB:70:ASP:HA	3:DB:135:ARG:HH12	1.79	0.48
3:DC:101:ARG:HD2	3:DC:165:ASP:O	2.14	0.48
3:DC:121:LEU:HD23	3:DC:121:LEU:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:130:ALA:O	3:DD:131:ALA:HB3	2.13	0.48
3:DE:56:ILE:CD1	3:DE:206:VAL:HG11	2.43	0.48
3:DH:53:PHE:HB3	3:DH:60:PRO:HB2	1.96	0.48
3:DL:80:LEU:HD12	3:DL:80:LEU:H	1.77	0.48
3:DN:75:GLN:HA	3:DN:183:LEU:O	2.14	0.48
3:DO:56:ILE:CD1	3:DO:206:VAL:HG11	2.43	0.48
3:DO:75:GLN:HA	3:DO:183:LEU:O	2.14	0.48
3:DO:80:LEU:HD12	3:DO:80:LEU:H	1.77	0.48
3:DR:53:PHE:HB3	3:DR:60:PRO:CB	2.44	0.48
3:DR:101:ARG:HA	3:DR:160:TYR:CE2	2.48	0.48
3:DV:56:ILE:CD1	3:DV:206:VAL:HG11	2.43	0.48
3:DV:130:ALA:O	3:DV:131:ALA:HB3	2.13	0.48
3:DW:56:ILE:CD1	3:DW:206:VAL:HG11	2.43	0.48
3:DX:53:PHE:HB3	3:DX:60:PRO:CB	2.44	0.48
3:DX:56:ILE:CD1	3:DX:206:VAL:HG11	2.43	0.48
3:DY:70:ASP:HA	3:DY:135:ARG:HH12	1.79	0.48
3:DY:73:LEU:HB3	3:DY:185:VAL:O	2.14	0.48
3:DZ:56:ILE:CD1	3:DZ:206:VAL:HG11	2.43	0.48
3:Dc:73:LEU:HB3	3:Dc:185:VAL:O	2.14	0.48
3:Dd:56:ILE:CD1	3:Dd:206:VAL:HG11	2.43	0.48
3:De:101:ARG:HD2	3:De:165:ASP:O	2.14	0.48
3:Di:101:ARG:HD2	3:Di:165:ASP:O	2.14	0.48
3:Di:130:ALA:O	3:Di:131:ALA:HB3	2.13	0.48
3:Dj:53:PHE:HB3	3:Dj:60:PRO:HB2	1.96	0.48
3:DI:121:LEU:HD23	3:DI:121:LEU:O	2.12	0.48
3:Dn:56:ILE:CD1	3:Dn:206:VAL:HG11	2.43	0.48
3:Dn:84:GLU:CD	3:Dn:84:GLU:H	2.20	0.48
3:Dn:130:ALA:O	3:Dn:131:ALA:HB3	2.13	0.48
3:Do:101:ARG:HD2	3:Do:165:ASP:O	2.14	0.48
3:Dp:73:LEU:HB3	3:Dp:185:VAL:O	2.14	0.48
3:EA:97:PHE:CE1	3:EA:216:LEU:HD23	2.47	0.48
3:EC:53:PHE:HB3	3:EC:60:PRO:CB	2.44	0.48
3:EC:56:ILE:CD1	3:EC:206:VAL:HG11	2.43	0.48
3:EC:101:ARG:HA	3:EC:160:TYR:CE2	2.48	0.48
3:EE:53:PHE:HB3	3:EE:60:PRO:CB	2.44	0.48
3:EE:130:ALA:O	3:EE:131:ALA:HB3	2.13	0.48
4:FG:30:TYR:N	4:FG:30:TYR:CD1	2.81	0.48
4:FI:25:PHE:O	4:FJ:20:SER:HA	2.12	0.48
4:FM:25:PHE:O	4:FN:20:SER:HA	2.12	0.48
4:FM:30:TYR:CD1	4:FM:30:TYR:N	2.81	0.48
4:FW:30:TYR:CD1	4:FW:30:TYR:N	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Fm:30:TYR:CD1	4:Fm:30:TYR:N	2.81	0.48
1:A0:156:PHE:CG	3:D1:25:LEU:HD12	2.49	0.48
1:A2:13:THR:C	1:A2:14:GLU:HG3	2.38	0.48
1:A2:79:PHE:CD1	1:A2:79:PHE:C	2.92	0.48
1:A3:101:PHE:O	1:A3:199:SER:CB	2.62	0.48
1:A5:27:HIS:O	1:A5:33:LEU:HD21	2.13	0.48
1:A6:176:ALA:C	1:A6:178:THR:H	2.22	0.48
1:A6:224:ILE:HD11	3:D7:89:TYR:CZ	2.49	0.48
1:A7:101:PHE:O	1:A7:199:SER:CB	2.62	0.48
1:A7:156:PHE:CG	3:D8:25:LEU:HD12	2.49	0.48
1:A7:237:HIS:O	3:D8:171:SER:HB2	2.13	0.48
1:A8:37:PHE:CD1	1:A8:212:ARG:HB2	2.49	0.48
1:AA:89:LYS:HG2	1:AE:128:VAL:HG11	1.96	0.48
1:AB:27:HIS:O	1:AB:33:LEU:HD21	2.13	0.48
1:AB:121:LEU:HD23	1:AC:42:THR:OG1	2.13	0.48
1:AB:187:LEU:HD12	1:AB:190:ALA:HB2	1.94	0.48
1:AC:37:PHE:CD1	1:AC:212:ARG:HB2	2.49	0.48
1:AD:101:PHE:O	1:AD:199:SER:CB	2.62	0.48
1:AD:113:THR:O	1:AD:133:LEU:HD12	2.14	0.48
1:AE:13:THR:C	1:AE:14:GLU:HG3	2.38	0.48
1:AE:157:SER:CB	3:DE:24:PRO:HA	2.36	0.48
1:AF:237:HIS:O	3:DF:171:SER:HB2	2.13	0.48
1:AH:4:VAL:HG22	3:DH:151:ASN:O	2.14	0.48
1:AJ:40:VAL:HG22	1:AJ:211:TYR:HE1	1.77	0.48
1:AM:121:LEU:HD23	1:AN:42:THR:OG1	2.13	0.48
1:AN:128:VAL:HG11	1:AO:89:LYS:HG2	1.96	0.48
1:AP:13:THR:C	1:AP:14:GLU:HG3	2.37	0.48
1:AT:89:LYS:HG2	1:AX:128:VAL:HG11	1.96	0.48
1:AT:176:ALA:C	1:AT:178:THR:H	2.22	0.48
1:AT:224:ILE:HD11	3:DU:89:TYR:CZ	2.49	0.48
1:AT:237:HIS:HB2	3:DU:81:SER:O	2.14	0.48
1:AV:101:PHE:CD2	1:AV:143:VAL:HG11	2.44	0.48
1:AV:113:THR:O	1:AV:133:LEU:HD12	2.14	0.48
1:AV:156:PHE:CG	3:DW:25:LEU:HD12	2.49	0.48
1:AW:113:THR:O	1:AW:133:LEU:HD12	2.14	0.48
1:AW:160:TYR:CE1	1:AW:167:VAL:HG23	2.48	0.48
1:AX:224:ILE:HD11	3:DY:89:TYR:CZ	2.49	0.48
1:AY:101:PHE:O	1:AY:199:SER:CB	2.62	0.48
1:Aa:89:LYS:HG2	1:An:128:VAL:HG11	1.96	0.48
1:Aa:105:LYS:HE3	1:Aa:139:SER:OG	2.14	0.48
1:Ac:187:LEU:HD12	1:Ac:190:ALA:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ac:224:ILE:HD11	3:De:89:TYR:CZ	2.49	0.48
1:Ae:27:HIS:O	1:Ae:33:LEU:HD21	2.13	0.48
1:Ae:160:TYR:CE1	1:Ae:167:VAL:HG23	2.48	0.48
1:Ae:187:LEU:HD12	1:Ae:190:ALA:HB2	1.94	0.48
1:Ag:37:PHE:CD1	1:Ag:212:ARG:HB2	2.49	0.48
1:Ah:101:PHE:O	1:Ah:199:SER:CB	2.62	0.48
1:Ah:128:VAL:HG11	1:Ai:89:LYS:HG2	1.96	0.48
1:Ah:156:PHE:CG	3:Dj:25:LEU:HD12	2.49	0.48
1:Ai:79:PHE:CD1	1:Ai:79:PHE:C	2.92	0.48
1:Aj:121:LEU:HD23	1:Ak:42:THR:OG1	2.13	0.48
1:Ak:79:PHE:CD1	1:Ak:79:PHE:C	2.92	0.48
1:Al:30:VAL:CG1	1:Al:218:MET:HE3	2.33	0.48
1:Am:13:THR:C	1:Am:14:GLU:HG3	2.37	0.48
1:An:224:ILE:HD11	3:Db:89:TYR:CZ	2.49	0.48
1:Ao:101:PHE:O	1:Ao:199:SER:CB	2.62	0.48
1:Ao:224:ILE:HD11	3:DS:89:TYR:CZ	2.49	0.48
1:BA:37:PHE:CD1	1:BA:212:ARG:HB2	2.49	0.48
1:BA:87:GLN:O	1:BA:88:PHE:CB	2.62	0.48
1:BB:87:GLN:O	1:BB:88:PHE:CB	2.62	0.48
1:BB:101:PHE:O	1:BB:199:SER:CB	2.62	0.48
1:BB:224:ILE:HD11	3:Dq:89:TYR:CZ	2.49	0.48
1:BC:113:THR:O	1:BC:133:LEU:HD12	2.14	0.48
1:BC:237:HIS:HB2	3:Dr:81:SER:O	2.14	0.48
1:BD:27:HIS:O	1:BD:33:LEU:HD21	2.13	0.48
1:BE:113:THR:O	1:BE:133:LEU:HD12	2.14	0.48
1:BE:237:HIS:HB2	3:EA:81:SER:O	2.14	0.48
1:BF:27:HIS:O	1:BF:33:LEU:HD21	2.13	0.48
2:C1:176:PRO:HD2	2:C1:192:TRP:CZ2	2.49	0.48
2:C2:84:PRO:HD3	2:C2:108:TRP:CZ2	2.49	0.48
2:C2:110:VAL:CG1	2:C2:215:VAL:HA	2.43	0.48
2:C3:140:LEU:HD22	2:C3:190:ASN:CG	2.38	0.48
2:C6:140:LEU:HD22	2:C6:190:ASN:CG	2.38	0.48
2:CA:32:THR:HG23	2:CA:172:HIS:ND1	2.29	0.48
2:CC:153:GLN:CD	3:DC:55:SER:HB2	2.39	0.48
2:CE:84:PRO:HD3	2:CE:108:TRP:CZ2	2.49	0.48
2:CG:110:VAL:CG1	2:CG:215:VAL:HA	2.43	0.48
2:CG:176:PRO:HD2	2:CG:192:TRP:CZ2	2.49	0.48
2:CJ:167:THR:O	2:CJ:168:ASN:HB3	2.13	0.48
2:CK:153:GLN:CD	3:DK:55:SER:HB2	2.39	0.48
2:CM:32:THR:HG23	2:CM:172:HIS:ND1	2.29	0.48
2:CN:32:THR:HG23	2:CN:172:HIS:ND1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CN:84:PRO:HD3	2:CN:108:TRP:CZ2	2.49	0.48
2:CO:153:GLN:CD	3:DO:55:SER:HB2	2.39	0.48
2:CP:32:THR:HG23	2:CP:172:HIS:ND1	2.29	0.48
2:CP:42:ARG:HA	2:CP:43:PRO:HD2	1.64	0.48
2:CP:125:CYS:HB2	2:CP:199:LEU:HD11	1.94	0.48
2:CQ:176:PRO:HD2	2:CQ:192:TRP:CZ2	2.49	0.48
2:CS:200:SER:HA	3:DS:61:TYR:CE2	2.48	0.48
2:CV:167:THR:O	2:CV:168:ASN:HB3	2.13	0.48
2:CY:32:THR:HG23	2:CY:172:HIS:ND1	2.29	0.48
2:CY:176:PRO:HD2	2:CY:192:TRP:CZ2	2.49	0.48
2:CZ:83:LEU:HA	2:CZ:84:PRO:HA	1.60	0.48
2:CZ:167:THR:O	2:CZ:168:ASN:HB3	2.13	0.48
2:Cb:84:PRO:HD2	2:Cb:186:LEU:HD22	1.95	0.48
2:Cc:153:GLN:CD	3:Dc:55:SER:HB2	2.39	0.48
2:Ch:176:PRO:HD2	2:Ch:192:TRP:CZ2	2.49	0.48
2:Cj:153:GLN:CD	3:Dj:55:SER:HB2	2.39	0.48
2:Cj:167:THR:O	2:Cj:168:ASN:HB3	2.13	0.48
2:Cl:84:PRO:HD3	2:Cl:108:TRP:CZ2	2.49	0.48
2:Cl:153:GLN:CD	3:Dl:55:SER:HB2	2.39	0.48
2:Cm:32:THR:HG23	2:Cm:172:HIS:ND1	2.29	0.48
2:Cm:152:TYR:HE1	3:Dm:60:PRO:HB3	1.78	0.48
2:Co:115:ASN:CA	3:DR:119:LYS:HZ3	2.26	0.48
2:Cs:13:ARG:HD3	2:Cs:13:ARG:HA	1.72	0.48
2:Ct:227:PRO:HB3	3:EB:132:PRO:HB3	1.94	0.48
2:Cv:152:TYR:CE1	3:EC:60:PRO:HG3	2.48	0.48
2:Cv:180:PRO:HD2	2:Cv:189:HIS:HE1	1.77	0.48
2:Cw:32:THR:HG23	2:Cw:172:HIS:ND1	2.29	0.48
2:Cx:84:PRO:HD3	2:Cx:108:TRP:CZ2	2.49	0.48
3:D0:101:ARG:HD2	3:D0:165:ASP:O	2.14	0.48
3:D2:101:ARG:HD2	3:D2:165:ASP:O	2.14	0.48
3:D3:75:GLN:HA	3:D3:183:LEU:O	2.14	0.48
3:D4:101:ARG:HD2	3:D4:165:ASP:O	2.14	0.48
3:D6:75:GLN:HA	3:D6:183:LEU:O	2.14	0.48
3:D7:53:PHE:HB3	3:D7:60:PRO:CB	2.44	0.48
3:D7:73:LEU:HB3	3:D7:185:VAL:O	2.14	0.48
3:D8:73:LEU:HB3	3:D8:185:VAL:O	2.14	0.48
3:D9:70:ASP:HA	3:D9:135:ARG:HH12	1.79	0.48
3:D9:101:ARG:HA	3:D9:160:TYR:CE2	2.48	0.48
3:DB:101:ARG:HD2	3:DB:165:ASP:O	2.14	0.48
3:DC:84:GLU:CD	3:DC:84:GLU:H	2.21	0.48
3:DD:36:VAL:HA	3:DD:37:PRO:HD3	1.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:53:PHE:HB3	3:DD:60:PRO:CB	2.44	0.48
3:DD:84:GLU:CD	3:DD:84:GLU:H	2.21	0.48
3:DG:80:LEU:HD12	3:DG:80:LEU:H	1.77	0.48
3:DI:36:VAL:HA	3:DI:37:PRO:HD3	1.53	0.48
3:DI:53:PHE:HB3	3:DI:60:PRO:CB	2.44	0.48
3:DK:84:GLU:H	3:DK:84:GLU:CD	2.21	0.48
3:DL:53:PHE:HB3	3:DL:60:PRO:CB	2.44	0.48
3:DM:75:GLN:HA	3:DM:183:LEU:O	2.14	0.48
3:DO:70:ASP:HA	3:DO:135:ARG:HH12	1.79	0.48
3:DO:101:ARG:HD2	3:DO:165:ASP:O	2.14	0.48
3:DS:80:LEU:HD12	3:DS:80:LEU:H	1.77	0.48
3:DV:73:LEU:HB3	3:DV:185:VAL:O	2.14	0.48
3:DV:75:GLN:HA	3:DV:183:LEU:O	2.14	0.48
3:DW:101:ARG:HD2	3:DW:165:ASP:O	2.14	0.48
3:DY:75:GLN:HA	3:DY:183:LEU:O	2.14	0.48
3:DZ:101:ARG:HD2	3:DZ:165:ASP:O	2.14	0.48
3:DZ:103:SER:HB2	3:DZ:159:PRO:HA	1.95	0.48
3:DZ:130:ALA:O	3:DZ:131:ALA:HB3	2.13	0.48
3:Da:36:VAL:HA	3:Da:37:PRO:HD3	1.53	0.48
3:Da:84:GLU:CD	3:Da:84:GLU:H	2.21	0.48
3:Db:101:ARG:HD2	3:Db:165:ASP:O	2.14	0.48
3:Dc:53:PHE:HB3	3:Dc:60:PRO:CB	2.44	0.48
3:Dc:53:PHE:HB3	3:Dc:60:PRO:HB2	1.96	0.48
3:De:121:LEU:HD23	3:De:121:LEU:O	2.12	0.48
3:Dg:130:ALA:O	3:Dg:131:ALA:HB3	2.13	0.48
3:Dh:84:GLU:H	3:Dh:84:GLU:CD	2.21	0.48
3:Dh:101:ARG:HD2	3:Dh:165:ASP:O	2.14	0.48
3:Dh:103:SER:HB2	3:Dh:159:PRO:HA	1.95	0.48
3:Dj:73:LEU:HB3	3:Dj:185:VAL:O	2.14	0.48
3:Dn:19:PRO:HG3	4:Fn:17:ASN:ND2	2.26	0.48
3:Dn:53:PHE:HB3	3:Dn:60:PRO:CB	2.44	0.48
3:Do:53:PHE:HB3	3:Do:60:PRO:HB2	1.95	0.48
3:Dq:53:PHE:HB3	3:Dq:60:PRO:CB	2.44	0.48
3:Dq:130:ALA:O	3:Dq:131:ALA:HB3	2.13	0.48
3:Dr:53:PHE:HB3	3:Dr:60:PRO:HB2	1.96	0.48
3:EA:53:PHE:HB3	3:EA:60:PRO:CB	2.44	0.48
3:EA:101:ARG:HD2	3:EA:165:ASP:O	2.14	0.48
3:EB:73:LEU:HB3	3:EB:185:VAL:O	2.14	0.48
3:EB:75:GLN:HA	3:EB:183:LEU:O	2.14	0.48
3:EC:103:SER:HB2	3:EC:159:PRO:HA	1.95	0.48
3:EE:84:GLU:CD	3:EE:84:GLU:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:101:ARG:HD2	3:EE:165:ASP:O	2.14	0.48
4:FY:30:TYR:N	4:FY:30:TYR:CD1	2.81	0.48
1:A0:224:ILE:HD11	3:D1:89:TYR:CZ	2.49	0.48
1:A1:237:HIS:O	3:D2:171:SER:HB2	2.13	0.48
1:A2:101:PHE:O	1:A2:199:SER:CB	2.62	0.48
1:A2:128:VAL:HG11	1:AY:89:LYS:HG2	1.96	0.48
1:A2:237:HIS:HB2	3:D3:81:SER:O	2.14	0.48
1:A3:157:SER:CB	3:D4:24:PRO:HA	2.36	0.48
1:A5:86:ILE:HD12	1:A5:86:ILE:H	1.72	0.48
1:A5:176:ALA:C	1:A5:178:THR:H	2.22	0.48
1:A6:37:PHE:CD1	1:A6:212:ARG:HB2	2.49	0.48
1:A6:79:PHE:CD1	1:A6:79:PHE:C	2.92	0.48
1:A6:101:PHE:O	1:A6:199:SER:CB	2.62	0.48
1:A6:156:PHE:CG	3:D7:25:LEU:HD12	2.49	0.48
1:A7:37:PHE:CD1	1:A7:212:ARG:HB2	2.49	0.48
1:A7:113:THR:O	1:A7:133:LEU:HD12	2.14	0.48
1:A8:101:PHE:O	1:A8:199:SER:CB	2.62	0.48
1:A9:156:PHE:CG	3:Da:25:LEU:HD12	2.49	0.48
1:A9:187:LEU:HD12	1:A9:190:ALA:HB2	1.94	0.48
1:AA:105:LYS:HE3	1:AA:139:SER:OG	2.14	0.48
1:AD:160:TYR:CE1	1:AD:167:VAL:HG23	2.48	0.48
1:AE:156:PHE:CG	3:DE:25:LEU:HD12	2.49	0.48
1:AE:224:ILE:HD11	3:DE:89:TYR:CZ	2.49	0.48
1:AF:42:THR:OG1	1:AJ:121:LEU:HD23	2.13	0.48
1:AF:101:PHE:O	1:AF:199:SER:CB	2.62	0.48
1:AH:79:PHE:CD1	1:AH:79:PHE:C	2.92	0.48
1:AH:237:HIS:HB2	3:DH:81:SER:O	2.14	0.48
1:AI:105:LYS:HE3	1:AI:139:SER:OG	2.13	0.48
1:AJ:156:PHE:CG	3:DJ:25:LEU:HD12	2.49	0.48
1:AL:101:PHE:CD2	1:AL:143:VAL:CG1	2.91	0.48
1:AL:121:LEU:HD23	1:AM:42:THR:OG1	2.13	0.48
1:AM:27:HIS:O	1:AM:33:LEU:HD21	2.13	0.48
1:AM:156:PHE:CG	3:DM:25:LEU:HD12	2.49	0.48
1:AM:160:TYR:CE1	1:AM:167:VAL:HG23	2.48	0.48
1:AN:87:GLN:O	1:AN:88:PHE:CB	2.62	0.48
1:AN:176:ALA:C	1:AN:178:THR:H	2.22	0.48
1:AO:79:PHE:CD1	1:AO:79:PHE:C	2.92	0.48
1:AO:103:TRP:HB2	1:AO:198:THR:HG23	1.96	0.48
1:AO:224:ILE:HD11	3:DO:89:TYR:CZ	2.49	0.48
1:AP:4:VAL:HG22	3:DP:151:ASN:O	2.14	0.48
1:AR:101:PHE:O	1:AR:199:SER:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:156:PHE:CG	3:DR:25:LEU:HD12	2.49	0.48
1:AR:160:TYR:CE1	1:AR:167:VAL:HG23	2.48	0.48
1:AS:87:GLN:O	1:AS:88:PHE:CB	2.62	0.48
1:AS:156:PHE:CG	3:DT:25:LEU:HD12	2.49	0.48
1:AS:176:ALA:C	1:AS:178:THR:H	2.22	0.48
1:AU:121:LEU:HD23	1:AV:42:THR:OG1	2.13	0.48
1:AV:4:VAL:HG22	3:DW:151:ASN:O	2.14	0.48
1:AW:4:VAL:HG22	3:DX:151:ASN:O	2.14	0.48
1:AW:224:ILE:HD11	3:DX:89:TYR:CZ	2.49	0.48
1:AX:237:HIS:O	3:DY:171:SER:HB2	2.13	0.48
1:AY:82:LEU:HD23	1:AY:84:LEU:HD11	1.94	0.48
1:AY:121:LEU:HD23	1:AZ:42:THR:OG1	2.13	0.48
1:AZ:37:PHE:CD1	1:AZ:212:ARG:HB2	2.49	0.48
1:AZ:101:PHE:O	1:AZ:199:SER:CB	2.62	0.48
1:Ab:4:VAL:HG22	3:Dd:151:ASN:O	2.14	0.48
1:Ac:27:HIS:O	1:Ac:33:LEU:HD21	2.13	0.48
1:Ac:37:PHE:CD1	1:Ac:212:ARG:HB2	2.49	0.48
1:Ac:128:VAL:HG11	1:Ad:89:LYS:HG2	1.96	0.48
1:Ac:156:PHE:CG	3:De:25:LEU:HD12	2.49	0.48
1:Ae:156:PHE:CG	3:Dg:25:LEU:HD12	2.49	0.48
1:Ah:37:PHE:CD1	1:Ah:212:ARG:HB2	2.49	0.48
1:Ah:237:HIS:O	3:Dj:171:SER:HB2	2.13	0.48
1:Aj:113:THR:O	1:Aj:133:LEU:HD12	2.14	0.48
1:Ak:13:THR:C	1:Ak:14:GLU:HG3	2.38	0.48
1:Al:37:PHE:CD1	1:Al:212:ARG:HB2	2.49	0.48
1:Al:113:THR:O	1:Al:133:LEU:HD12	2.14	0.48
1:Am:176:ALA:C	1:Am:178:THR:H	2.22	0.48
1:An:4:VAL:HG22	3:Db:151:ASN:O	2.14	0.48
1:An:156:PHE:CG	3:Db:25:LEU:HD12	2.49	0.48
1:BA:237:HIS:O	3:Dp:171:SER:HB2	2.13	0.48
1:BB:86:ILE:HD12	1:BB:86:ILE:H	1.73	0.48
1:BC:13:THR:C	1:BC:14:GLU:HG3	2.38	0.48
1:BD:224:ILE:HD11	3:Ds:89:TYR:CZ	2.49	0.48
1:BE:89:LYS:HG2	1:BI:128:VAL:HG11	1.96	0.48
1:BE:156:PHE:CG	3:EA:25:LEU:HD12	2.49	0.48
1:BF:101:PHE:O	1:BF:199:SER:CB	2.62	0.48
1:BF:113:THR:O	1:BF:133:LEU:HD12	2.14	0.48
1:BF:171:TYR:N	1:BF:185:ASN:OD1	2.45	0.48
1:BG:224:ILE:HD11	3:EC:89:TYR:CZ	2.49	0.48
1:BH:37:PHE:CD1	1:BH:212:ARG:HB2	2.49	0.48
1:BH:113:THR:O	1:BH:133:LEU:HD12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:167:THR:O	2:C1:168:ASN:HB3	2.13	0.48
2:C2:32:THR:HG23	2:C2:172:HIS:ND1	2.29	0.48
2:C2:176:PRO:HD2	2:C2:192:TRP:CZ2	2.49	0.48
2:C3:167:THR:O	2:C3:168:ASN:HB3	2.13	0.48
2:C5:110:VAL:CG1	2:C5:215:VAL:HA	2.43	0.48
2:C5:152:TYR:HE1	3:D5:60:PRO:HB3	1.78	0.48
2:C6:176:PRO:HD2	2:C6:192:TRP:CZ2	2.49	0.48
2:C7:32:THR:HG23	2:C7:172:HIS:ND1	2.29	0.48
2:C7:158:PHE:O	2:C7:159:PRO:C	2.55	0.48
2:C8:200:SER:HA	3:D8:61:TYR:CE2	2.48	0.48
2:C9:140:LEU:HD22	2:C9:190:ASN:CG	2.38	0.48
2:CB:140:LEU:HD22	2:CB:190:ASN:CG	2.38	0.48
2:CB:200:SER:HA	3:DB:61:TYR:CE2	2.48	0.48
2:CE:84:PRO:HD2	2:CE:186:LEU:HD22	1.95	0.48
2:CF:32:THR:HG23	2:CF:172:HIS:ND1	2.28	0.48
2:CF:153:GLN:CD	3:DF:55:SER:HB2	2.39	0.48
2:CH:176:PRO:HD2	2:CH:192:TRP:CZ2	2.49	0.48
2:CH:200:SER:HA	3:DH:61:TYR:CE2	2.48	0.48
2:CJ:212:THR:HG23	3:DA:188:LEU:HD22	1.96	0.48
2:CL:83:LEU:HA	2:CL:84:PRO:HA	1.59	0.48
2:CL:84:PRO:HD2	2:CL:186:LEU:HD22	1.95	0.48
2:CN:152:TYR:HE1	3:DN:60:PRO:HB3	1.78	0.48
2:CN:153:GLN:CD	3:DN:55:SER:HB2	2.39	0.48
2:CN:223:ASN:ND2	2:CN:223:ASN:N	2.60	0.48
2:CO:167:THR:O	2:CO:168:ASN:HB3	2.14	0.48
2:CP:153:GLN:CD	3:DP:55:SER:HB2	2.39	0.48
2:CQ:84:PRO:HD3	2:CQ:108:TRP:CZ2	2.49	0.48
2:CR:140:LEU:HD22	2:CR:190:ASN:CG	2.39	0.48
2:CS:153:GLN:CD	3:DS:55:SER:HB2	2.39	0.48
2:CT:200:SER:HA	3:DT:61:TYR:CE2	2.48	0.48
2:CU:32:THR:HG23	2:CU:172:HIS:ND1	2.29	0.48
2:CU:176:PRO:HD2	2:CU:192:TRP:CZ2	2.49	0.48
2:CY:153:GLN:CD	3:DY:55:SER:HB2	2.39	0.48
2:CY:200:SER:HA	3:DY:61:TYR:CE2	2.48	0.48
2:CZ:176:PRO:HD2	2:CZ:192:TRP:CZ2	2.49	0.48
2:Ca:153:GLN:CD	3:Da:55:SER:HB2	2.39	0.48
2:Ca:180:PRO:HD2	2:Ca:189:HIS:HE1	1.76	0.48
2:Ca:200:SER:HA	3:Da:61:TYR:CE2	2.48	0.48
2:Cb:152:TYR:CE1	3:Db:60:PRO:HG3	2.48	0.48
2:Cb:200:SER:HA	3:Db:61:TYR:CE2	2.48	0.48
2:Cc:140:LEU:HD22	2:Cc:190:ASN:CG	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cf:46:THR:CG2	3:Dg:165:ASP:HA	2.38	0.48
2:Cf:110:VAL:CG1	2:Cf:213:MET:HE3	2.42	0.48
2:Ci:84:PRO:HD2	2:Ci:186:LEU:HD22	1.94	0.48
2:Cl:200:SER:HA	3:Dl:61:TYR:CE2	2.48	0.48
2:Cp:152:TYR:HE1	3:Dp:60:PRO:HB3	1.78	0.48
2:Cr:153:GLN:CD	3:Dr:55:SER:HB2	2.39	0.48
2:Cs:32:THR:HG23	2:Cs:172:HIS:ND1	2.29	0.48
2:Ct:167:THR:O	2:Ct:168:ASN:HB3	2.13	0.48
2:Cv:176:PRO:HD2	2:Cv:192:TRP:CZ2	2.49	0.48
2:Cw:84:PRO:HD3	2:Cw:108:TRP:CZ2	2.49	0.48
3:D0:73:LEU:HB3	3:D0:185:VAL:O	2.14	0.48
3:D3:70:ASP:HA	3:D3:135:ARG:HH12	1.79	0.48
3:D3:73:LEU:HB3	3:D3:185:VAL:O	2.14	0.48
3:D5:84:GLU:H	3:D5:84:GLU:CD	2.20	0.48
3:D8:56:ILE:CD1	3:D8:206:VAL:HG11	2.43	0.48
3:D8:70:ASP:HA	3:D8:135:ARG:HH12	1.79	0.48
3:D9:130:ALA:O	3:D9:131:ALA:HB3	2.13	0.48
3:DA:101:ARG:HA	3:DA:160:TYR:CE2	2.48	0.48
3:DB:101:ARG:HA	3:DB:160:TYR:CE2	2.48	0.48
3:DH:73:LEU:HB3	3:DH:185:VAL:O	2.14	0.48
3:DH:101:ARG:HD2	3:DH:165:ASP:O	2.14	0.48
3:DJ:53:PHE:HB3	3:DJ:60:PRO:CB	2.44	0.48
3:DJ:56:ILE:CD1	3:DJ:206:VAL:HG11	2.43	0.48
3:DJ:70:ASP:HA	3:DJ:135:ARG:HH12	1.79	0.48
3:DL:73:LEU:HB3	3:DL:185:VAL:O	2.14	0.48
3:DM:53:PHE:HB3	3:DM:60:PRO:CB	2.44	0.48
3:DM:101:ARG:HA	3:DM:160:TYR:CE2	2.48	0.48
3:DS:73:LEU:HB3	3:DS:185:VAL:O	2.14	0.48
3:DT:70:ASP:HA	3:DT:135:ARG:HH12	1.79	0.48
3:DT:75:GLN:HA	3:DT:183:LEU:O	2.14	0.48
3:DV:53:PHE:HB3	3:DV:60:PRO:HB2	1.96	0.48
3:DW:53:PHE:HB3	3:DW:60:PRO:CB	2.44	0.48
3:DW:101:ARG:HA	3:DW:160:TYR:CE2	2.48	0.48
3:DY:53:PHE:HB3	3:DY:60:PRO:CB	2.44	0.48
3:DZ:101:ARG:HA	3:DZ:160:TYR:CE2	2.48	0.48
3:Db:53:PHE:HB3	3:Db:60:PRO:CB	2.44	0.48
3:Dc:101:ARG:HD2	3:Dc:165:ASP:O	2.14	0.48
3:Dc:103:SER:HB2	3:Dc:159:PRO:HA	1.95	0.48
3:Dd:103:SER:HB2	3:Dd:159:PRO:HA	1.95	0.48
3:Df:73:LEU:HB3	3:Df:185:VAL:O	2.14	0.48
3:Df:101:ARG:HD2	3:Df:165:ASP:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dh:53:PHE:HB3	3:Dh:60:PRO:CB	2.44	0.48
3:Dh:56:ILE:CD1	3:Dh:206:VAL:HG11	2.43	0.48
3:Dk:56:ILE:CD1	3:Dk:206:VAL:HG11	2.43	0.48
3:Dk:110:PHE:HB3	3:Dk:148:VAL:HG11	1.96	0.48
3:Dl:53:PHE:HB3	3:Dl:60:PRO:CB	2.44	0.48
3:Do:73:LEU:HB3	3:Do:185:VAL:O	2.14	0.48
3:Dp:103:SER:HB2	3:Dp:159:PRO:HA	1.95	0.48
3:Dr:101:ARG:HA	3:Dr:160:TYR:CE2	2.48	0.48
3:Ds:73:LEU:HB3	3:Ds:185:VAL:O	2.14	0.48
4:F6:25:PHE:O	4:F7:20:SER:HA	2.12	0.48
4:FO:30:TYR:N	4:FO:30:TYR:CD1	2.81	0.48
4:FQ:30:TYR:N	4:FQ:30:TYR:CD1	2.81	0.48
4:Fv:30:TYR:N	4:Fv:30:TYR:CD1	2.81	0.48
1:A1:30:VAL:CG1	1:A1:218:MET:HE3	2.34	0.48
1:A1:103:TRP:HB2	1:A1:198:THR:HG23	1.96	0.48
1:A1:121:LEU:HD23	1:A2:42:THR:OG1	2.13	0.48
1:A2:87:GLN:O	1:A2:88:PHE:CB	2.62	0.48
1:A2:113:THR:O	1:A2:133:LEU:HD12	2.14	0.48
1:A3:224:ILE:HD11	3:D4:89:TYR:CZ	2.49	0.48
1:A4:79:PHE:CD1	1:A4:79:PHE:C	2.92	0.48
1:A4:101:PHE:CD2	1:A4:143:VAL:HG11	2.44	0.48
1:A8:13:THR:C	1:A8:14:GLU:HG3	2.38	0.48
1:AA:224:ILE:HD11	3:DA:89:TYR:CZ	2.49	0.48
1:AB:30:VAL:CG1	1:AB:218:MET:HE3	2.34	0.48
1:AB:237:HIS:O	3:DB:171:SER:HB2	2.13	0.48
1:AD:37:PHE:CD1	1:AD:212:ARG:HB2	2.49	0.48
1:AF:110:GLY:H	1:AG:242:ASN:ND2	2.12	0.48
1:AF:156:PHE:CG	3:DF:25:LEU:HD12	2.49	0.48
1:AH:224:ILE:HD11	3:DH:89:TYR:CZ	2.49	0.48
1:AI:101:PHE:O	1:AI:199:SER:CB	2.62	0.48
1:AI:176:ALA:C	1:AI:178:THR:H	2.22	0.48
1:AJ:37:PHE:CD1	1:AJ:212:ARG:HB2	2.49	0.48
1:AK:87:GLN:O	1:AK:88:PHE:CB	2.62	0.48
1:AK:89:LYS:HG2	1:AO:128:VAL:HG11	1.96	0.48
1:AL:79:PHE:CD1	1:AL:79:PHE:C	2.92	0.48
1:AL:105:LYS:HE3	1:AL:139:SER:OG	2.14	0.48
1:AL:224:ILE:HD11	3:DL:89:TYR:CZ	2.49	0.48
1:AM:176:ALA:C	1:AM:178:THR:H	2.22	0.48
1:AN:43:LEU:N	1:AN:43:LEU:CD2	2.74	0.48
1:AN:101:PHE:O	1:AN:199:SER:CB	2.62	0.48
1:AO:4:VAL:HG22	3:DO:151:ASN:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:89:LYS:HG2	1:AS:128:VAL:HG11	1.96	0.48
1:AP:103:TRP:HB2	1:AP:198:THR:HG23	1.96	0.48
1:AQ:4:VAL:HG22	3:DQ:151:ASN:O	2.14	0.48
1:AQ:150:ARG:HE	1:AQ:150:ARG:H	1.60	0.48
1:AR:4:VAL:HG22	3:DR:151:ASN:O	2.14	0.48
1:AS:237:HIS:O	3:DT:171:SER:HB2	2.13	0.48
1:AS:237:HIS:HB2	3:DT:81:SER:O	2.14	0.48
1:AT:79:PHE:CD1	1:AT:79:PHE:C	2.92	0.48
1:AT:120:GLN:HB2	1:AT:129:ARG:HD3	1.96	0.48
1:AV:105:LYS:HE3	1:AV:139:SER:OG	2.13	0.48
1:AX:37:PHE:CD1	1:AX:212:ARG:HB2	2.49	0.48
1:AX:105:LYS:HE3	1:AX:139:SER:OG	2.13	0.48
1:AY:137:GLY:HA2	1:AZ:38:PHE:CD1	2.49	0.48
1:AY:237:HIS:HB2	3:DZ:81:SER:O	2.14	0.48
1:AZ:87:GLN:O	1:AZ:88:PHE:CB	2.62	0.48
1:AZ:113:THR:O	1:AZ:133:LEU:HD12	2.14	0.48
1:Aa:79:PHE:CD1	1:Aa:79:PHE:C	2.92	0.48
1:Aa:156:PHE:CG	3:Dc:25:LEU:HD12	2.49	0.48
1:Ac:89:LYS:HG2	1:Ag:128:VAL:HG11	1.96	0.48
1:Ac:105:LYS:HE3	1:Ac:139:SER:OG	2.13	0.48
1:Ac:113:THR:O	1:Ac:133:LEU:HD12	2.14	0.48
1:Ad:4:VAL:HG22	3:Df:151:ASN:O	2.14	0.48
1:Ad:113:THR:O	1:Ad:133:LEU:HD12	2.14	0.48
1:Ae:120:GLN:HB2	1:Ae:129:ARG:HD3	1.96	0.48
1:Af:224:ILE:HD11	3:Dh:89:TYR:CZ	2.49	0.48
1:Ai:4:VAL:HG22	3:Dk:151:ASN:O	2.14	0.48
1:Ai:237:HIS:HB2	3:Dk:81:SER:O	2.14	0.48
1:Ak:37:PHE:CD1	1:Ak:212:ARG:HB2	2.49	0.48
1:Al:156:PHE:CG	3:Dn:25:LEU:HD12	2.49	0.48
1:Ao:237:HIS:O	3:DS:171:SER:HB2	2.13	0.48
1:BA:121:LEU:HD23	1:BB:42:THR:OG1	2.13	0.48
1:BE:4:VAL:HG22	3:EA:151:ASN:O	2.14	0.48
1:BF:17:HIS:O	2:Ct:48:SER:HA	2.14	0.48
1:BF:120:GLN:HB2	1:BF:129:ARG:HD3	1.96	0.48
1:BF:224:ILE:HD11	3:EB:89:TYR:CZ	2.49	0.48
1:BH:121:LEU:HD23	1:BI:42:THR:OG1	2.13	0.48
1:BI:176:ALA:C	1:BI:178:THR:H	2.22	0.48
1:BI:237:HIS:HB2	3:EE:81:SER:O	2.14	0.48
2:C1:153:GLN:CD	3:D1:55:SER:HB2	2.39	0.48
2:C1:223:ASN:ND2	2:C1:223:ASN:N	2.60	0.48
2:C8:115:ASN:CA	3:D9:119:LYS:HZ3	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:110:VAL:CG1	2:CB:213:MET:HE3	2.42	0.48
2:CD:212:THR:HG23	3:D7:188:LEU:HD22	1.96	0.48
2:CE:153:GLN:CD	3:DE:55:SER:HB2	2.39	0.48
2:CG:140:LEU:HD22	2:CG:190:ASN:CG	2.38	0.48
2:CH:83:LEU:HA	2:CH:84:PRO:HA	1.60	0.48
2:CH:140:LEU:HD22	2:CH:190:ASN:CG	2.39	0.48
2:CI:84:PRO:HD3	2:CI:108:TRP:CZ2	2.49	0.48
2:CI:176:PRO:HD2	2:CI:192:TRP:CZ2	2.49	0.48
2:CI:212:THR:HG23	3:DX:188:LEU:HD22	1.96	0.48
2:CM:115:ASN:HB2	3:Di:189:THR:HG22	1.96	0.48
2:CR:32:THR:HG23	2:CR:172:HIS:ND1	2.29	0.48
2:CT:84:PRO:HD2	2:CT:186:LEU:HD22	1.94	0.48
2:CT:110:VAL:CG1	2:CT:215:VAL:HA	2.43	0.48
2:CT:167:THR:O	2:CT:168:ASN:HB3	2.13	0.48
2:CW:167:THR:O	2:CW:168:ASN:HB3	2.13	0.48
2:CX:115:ASN:HB2	3:Dr:189:THR:HG22	1.96	0.48
2:Cb:110:VAL:CG1	2:Cb:215:VAL:HA	2.43	0.48
2:Cb:140:LEU:HD22	2:Cb:190:ASN:CG	2.39	0.48
2:Cc:115:ASN:HB2	3:ED:189:THR:HG22	1.96	0.48
2:Cd:115:ASN:HB2	3:D4:189:THR:HG22	1.96	0.48
2:Ce:200:SER:HA	3:De:61:TYR:CE2	2.48	0.48
2:Ch:42:ARG:HA	2:Ch:43:PRO:HD2	1.64	0.48
2:Ch:135:THR:HB	2:Ch:139:ALA:CA	2.41	0.48
2:Ci:167:THR:O	2:Ci:168:ASN:HB3	2.13	0.48
2:Ck:115:ASN:CA	3:Da:119:LYS:HZ3	2.27	0.48
2:Ck:153:GLN:CD	3:Dk:55:SER:HB2	2.39	0.48
2:Cn:153:GLN:CD	3:Dn:55:SER:HB2	2.39	0.48
2:Cp:84:PRO:HD3	2:Cp:108:TRP:CZ2	2.49	0.48
2:Cp:200:SER:HA	3:Dp:61:TYR:CE2	2.48	0.48
2:Cp:212:THR:HG23	3:D0:188:LEU:HD22	1.96	0.48
2:Cs:84:PRO:HD3	2:Cs:108:TRP:CZ2	2.49	0.48
2:Ct:176:PRO:HD2	2:Ct:192:TRP:CZ2	2.49	0.48
2:Cu:134:HIS:HB3	2:Cu:135:THR:H	1.46	0.48
2:Cu:153:GLN:CD	3:EB:55:SER:HB2	2.39	0.48
2:Cw:167:THR:O	2:Cw:168:ASN:HB3	2.13	0.48
2:Cw:200:SER:HA	3:ED:61:TYR:CE2	2.48	0.48
3:D1:56:ILE:CD1	3:D1:206:VAL:HG11	2.43	0.48
3:D2:101:ARG:HA	3:D2:160:TYR:CE2	2.48	0.48
3:D4:3:ILE:HG22	3:D4:4:ARG:N	2.27	0.48
3:D5:44:ILE:HG23	3:D5:45:ASP:N	2.29	0.48
3:D5:70:ASP:HA	3:D5:135:ARG:HH12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:53:PHE:HB3	3:D8:60:PRO:HB2	1.96	0.48
3:D8:101:ARG:HD2	3:D8:165:ASP:O	2.14	0.48
3:D9:56:ILE:CD1	3:D9:206:VAL:HG11	2.43	0.48
3:DB:73:LEU:HB3	3:DB:185:VAL:O	2.14	0.48
3:DB:84:GLU:CD	3:DB:84:GLU:H	2.21	0.48
3:DC:97:PHE:CE1	3:DC:216:LEU:HD23	2.47	0.48
3:DC:101:ARG:HA	3:DC:160:TYR:CE2	2.48	0.48
3:DF:84:GLU:CD	3:DF:84:GLU:H	2.21	0.48
3:DF:101:ARG:HA	3:DF:160:TYR:CE2	2.48	0.48
3:DH:44:ILE:HG23	3:DH:45:ASP:N	2.29	0.48
3:DJ:19:PRO:HG3	4:FJ:17:ASN:ND2	2.26	0.48
3:DJ:53:PHE:HB3	3:DJ:60:PRO:HB2	1.96	0.48
3:DK:44:ILE:HG23	3:DK:45:ASP:N	2.29	0.48
3:DK:53:PHE:HB3	3:DK:60:PRO:CB	2.44	0.48
3:DK:73:LEU:HB3	3:DK:185:VAL:O	2.14	0.48
3:DL:44:ILE:HG23	3:DL:45:ASP:N	2.29	0.48
3:DL:130:ALA:O	3:DL:131:ALA:HB3	2.13	0.48
3:DM:53:PHE:HB3	3:DM:60:PRO:HB2	1.96	0.48
3:DM:56:ILE:CD1	3:DM:206:VAL:HG11	2.43	0.48
3:DN:130:ALA:O	3:DN:131:ALA:HB3	2.13	0.48
3:DO:53:PHE:HB3	3:DO:60:PRO:CB	2.44	0.48
3:DO:101:ARG:HA	3:DO:160:TYR:CE2	2.48	0.48
3:DP:53:PHE:HB3	3:DP:60:PRO:HB2	1.95	0.48
3:DQ:70:ASP:HA	3:DQ:135:ARG:HH12	1.79	0.48
3:DR:75:GLN:HA	3:DR:183:LEU:O	2.14	0.48
3:DT:53:PHE:HB3	3:DT:60:PRO:CB	2.44	0.48
3:DU:73:LEU:HB3	3:DU:185:VAL:O	2.14	0.48
3:DZ:53:PHE:HB3	3:DZ:60:PRO:CB	2.44	0.48
3:DZ:53:PHE:HB3	3:DZ:60:PRO:HB2	1.96	0.48
3:Db:53:PHE:HB3	3:Db:60:PRO:HB2	1.96	0.48
3:Dd:101:ARG:HD2	3:Dd:165:ASP:O	2.14	0.48
3:De:157:ASN:O	3:De:159:PRO:HD3	2.14	0.48
3:Df:97:PHE:CE1	3:Df:216:LEU:HD23	2.47	0.48
3:Dh:157:ASN:O	3:Dh:159:PRO:HD3	2.14	0.48
3:Dn:75:GLN:HA	3:Dn:183:LEU:O	2.14	0.48
3:Dn:103:SER:HB3	3:Dn:159:PRO:CA	2.35	0.48
3:Do:53:PHE:HB3	3:Do:60:PRO:CB	2.44	0.48
3:Do:70:ASP:HA	3:Do:135:ARG:HH12	1.79	0.48
3:Dp:130:ALA:O	3:Dp:131:ALA:HB3	2.13	0.48
3:Dr:53:PHE:HB3	3:Dr:60:PRO:CB	2.44	0.48
3:Dr:101:ARG:HD2	3:Dr:165:ASP:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dr:110:PHE:HB3	3:Dr:148:VAL:HG11	1.96	0.48
3:EA:121:LEU:HD23	3:EA:121:LEU:O	2.12	0.48
3:EB:56:ILE:CD1	3:EB:206:VAL:HG11	2.43	0.48
3:ED:73:LEU:HB3	3:ED:185:VAL:O	2.14	0.48
4:F8:30:TYR:N	4:F8:30:TYR:CD1	2.81	0.48
4:FX:30:TYR:N	4:FX:30:TYR:CD1	2.81	0.48
4:Fk:30:TYR:N	4:Fk:30:TYR:CD1	2.81	0.48
1:A0:38:PHE:CD1	1:AZ:137:GLY:HA2	2.49	0.47
1:A3:120:GLN:HB2	1:A3:129:ARG:HD3	1.96	0.47
1:A3:176:ALA:C	1:A3:178:THR:H	2.22	0.47
1:A3:239:PHE:CD1	3:D4:170:TYR:CD2	2.96	0.47
1:A6:105:LYS:HE3	1:A6:139:SER:OG	2.13	0.47
1:A6:121:LEU:HD23	1:A7:42:THR:OG1	2.13	0.47
1:A7:176:ALA:C	1:A7:178:THR:H	2.22	0.47
1:A7:224:ILE:HD11	3:D8:89:TYR:CZ	2.49	0.47
1:A8:89:LYS:HG2	1:Ab:128:VAL:HG11	1.96	0.47
1:A9:79:PHE:CD1	1:A9:79:PHE:C	2.92	0.47
1:AC:128:VAL:HG11	1:AD:89:LYS:HG2	1.96	0.47
1:AC:237:HIS:HB2	3:DC:81:SER:O	2.14	0.47
1:AD:79:PHE:CD1	1:AD:79:PHE:C	2.92	0.47
1:AE:103:TRP:HB2	1:AE:198:THR:HG23	1.96	0.47
1:AE:105:LYS:HE3	1:AE:139:SER:OG	2.13	0.47
1:AF:87:GLN:O	1:AF:88:PHE:CB	2.62	0.47
1:AF:128:VAL:HG11	1:AG:89:LYS:HG2	1.96	0.47
1:AG:101:PHE:O	1:AG:199:SER:CB	2.62	0.47
1:AG:120:GLN:HB2	1:AG:129:ARG:HD3	1.96	0.47
1:AG:160:TYR:CE1	1:AG:167:VAL:HG23	2.48	0.47
1:AI:170:PHE:CD2	1:AI:222:ARG:CZ	2.87	0.47
1:AJ:17:HIS:O	2:CI:48:SER:HA	2.14	0.47
1:AJ:237:HIS:O	3:DJ:171:SER:HB2	2.13	0.47
1:AK:27:HIS:O	1:AK:33:LEU:HD21	2.13	0.47
1:AK:79:PHE:CD1	1:AK:79:PHE:C	2.92	0.47
1:AL:101:PHE:CD2	1:AL:143:VAL:HG11	2.44	0.47
1:AM:224:ILE:HD11	3:DM:89:TYR:CZ	2.49	0.47
1:AN:120:GLN:HB2	1:AN:129:ARG:HD3	1.96	0.47
1:AN:237:HIS:HB2	3:DN:81:SER:O	2.14	0.47
1:AP:79:PHE:CD1	1:AP:79:PHE:C	2.92	0.47
1:AQ:101:PHE:O	1:AQ:199:SER:CB	2.62	0.47
1:AQ:113:THR:O	1:AQ:133:LEU:HD12	2.14	0.47
1:AR:105:LYS:HE3	1:AR:139:SER:OG	2.13	0.47
1:AS:4:VAL:HG22	3:DT:151:ASN:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:4:VAL:HG22	3:DV:151:ASN:O	2.14	0.47
1:AU:17:HIS:O	2:CU:48:SER:HA	2.14	0.47
1:AU:113:THR:O	1:AU:133:LEU:HD12	2.14	0.47
1:AU:128:VAL:HG11	1:AV:89:LYS:HG2	1.96	0.47
1:AV:187:LEU:HD12	1:AV:190:ALA:HB2	1.94	0.47
1:AV:237:HIS:O	3:DW:171:SER:HB2	2.13	0.47
1:AW:101:PHE:O	1:AW:199:SER:CB	2.62	0.47
1:AW:176:ALA:C	1:AW:178:THR:H	2.22	0.47
1:AX:113:THR:O	1:AX:133:LEU:HD12	2.14	0.47
1:AX:160:TYR:CE1	1:AX:167:VAL:HG23	2.48	0.47
1:AX:176:ALA:C	1:AX:178:THR:H	2.22	0.47
1:AY:13:THR:C	1:AY:14:GLU:HG3	2.38	0.47
1:AY:37:PHE:CD1	1:AY:212:ARG:HB2	2.49	0.47
1:AY:105:LYS:HE3	1:AY:139:SER:OG	2.13	0.47
1:AY:224:ILE:HD11	3:DZ:89:TYR:CZ	2.49	0.47
1:AZ:176:ALA:C	1:AZ:178:THR:H	2.22	0.47
1:Aa:121:LEU:HD23	1:Ab:42:THR:OG1	2.13	0.47
1:Aa:160:TYR:CE1	1:Aa:167:VAL:HG23	2.48	0.47
1:Ab:101:PHE:O	1:Ab:199:SER:CB	2.62	0.47
1:Ab:120:GLN:HB2	1:Ab:129:ARG:HD3	1.96	0.47
1:Ac:4:VAL:HG22	3:De:151:ASN:O	2.14	0.47
1:Ad:37:PHE:CD1	1:Ad:212:ARG:HB2	2.49	0.47
1:Ad:160:TYR:CE1	1:Ad:167:VAL:HG23	2.48	0.47
1:Ag:27:HIS:O	1:Ag:33:LEU:HD21	2.13	0.47
1:Ag:105:LYS:HE3	1:Ag:139:SER:OG	2.13	0.47
1:Ah:89:LYS:HG2	1:Al:128:VAL:HG11	1.96	0.47
1:Ai:237:HIS:O	3:Dk:171:SER:HB2	2.13	0.47
1:Aj:120:GLN:HB2	1:Aj:129:ARG:HD3	1.96	0.47
1:Aj:156:PHE:CG	3:Dl:25:LEU:HD12	2.49	0.47
1:Ak:156:PHE:CG	3:Dm:25:LEU:HD12	2.49	0.47
1:Al:101:PHE:O	1:Al:199:SER:CB	2.62	0.47
1:Am:79:PHE:CD1	1:Am:79:PHE:C	2.92	0.47
1:Am:89:LYS:HG2	1:BD:128:VAL:HG11	1.96	0.47
1:Am:128:VAL:HG11	1:BA:89:LYS:HG2	1.96	0.47
1:Am:237:HIS:HB2	3:Do:81:SER:O	2.14	0.47
1:Ao:79:PHE:CD1	1:Ao:79:PHE:C	2.92	0.47
1:Ao:237:HIS:HB2	3:DS:81:SER:O	2.14	0.47
1:BB:17:HIS:O	2:Cp:48:SER:HA	2.14	0.47
1:BB:156:PHE:CG	3:Dq:25:LEU:HD12	2.49	0.47
1:BD:79:PHE:CD1	1:BD:79:PHE:C	2.92	0.47
1:BE:79:PHE:CD1	1:BE:79:PHE:C	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:79:PHE:CD1	1:BI:79:PHE:C	2.92	0.47
1:BI:224:ILE:HD11	3:EE:89:TYR:CZ	2.49	0.47
2:C0:153:GLN:CD	3:D0:55:SER:HB2	2.39	0.47
2:C3:46:THR:CG2	3:DZ:165:ASP:HA	2.38	0.47
2:C3:153:GLN:CD	3:D3:55:SER:HB2	2.39	0.47
2:C5:167:THR:O	2:C5:168:ASN:HB3	2.13	0.47
2:C7:153:GLN:CD	3:D7:55:SER:HB2	2.39	0.47
2:C8:140:LEU:HD22	2:C8:190:ASN:CG	2.38	0.47
2:C8:153:GLN:CD	3:D8:55:SER:HB2	2.39	0.47
2:C8:158:PHE:O	2:C8:159:PRO:C	2.55	0.47
2:CC:140:LEU:HD22	2:CC:190:ASN:CG	2.38	0.47
2:CF:176:PRO:HD2	2:CF:192:TRP:CZ2	2.49	0.47
2:CG:153:GLN:CD	3:DG:55:SER:HB2	2.39	0.47
2:CI:209:VAL:N	2:CI:210:PRO:CD	2.68	0.47
2:CJ:42:ARG:HA	2:CJ:43:PRO:HD2	1.65	0.47
2:CJ:149:ALA:O	2:CJ:152:TYR:N	2.45	0.47
2:CL:152:TYR:HE1	3:DL:60:PRO:HB3	1.78	0.47
2:CL:153:GLN:CD	3:DL:55:SER:HB2	2.39	0.47
2:CP:115:ASN:HB2	3:D1:189:THR:HG22	1.96	0.47
2:CR:46:THR:CG2	3:DS:165:ASP:HA	2.38	0.47
2:CR:110:VAL:CG1	2:CR:215:VAL:HA	2.43	0.47
2:CR:176:PRO:HD2	2:CR:192:TRP:CZ2	2.49	0.47
2:CV:83:LEU:HA	2:CV:84:PRO:HA	1.60	0.47
2:CV:84:PRO:HD3	2:CV:108:TRP:CZ2	2.49	0.47
2:CX:84:PRO:HD2	2:CX:186:LEU:HD22	1.95	0.47
2:CY:84:PRO:HD2	2:CY:186:LEU:HD22	1.94	0.47
2:Ca:152:TYR:HE1	3:Da:60:PRO:HB3	1.78	0.47
2:Cd:32:THR:HG23	2:Cd:172:HIS:ND1	2.29	0.47
2:Ce:32:THR:HG23	2:Ce:172:HIS:ND1	2.29	0.47
2:Ce:110:VAL:CG1	2:Ce:215:VAL:HA	2.43	0.47
2:Cf:176:PRO:HD2	2:Cf:192:TRP:CZ2	2.49	0.47
2:Cf:180:PRO:HD2	2:Cf:189:HIS:HE1	1.77	0.47
2:Ck:84:PRO:HD3	2:Ck:108:TRP:CZ2	2.49	0.47
2:Cp:167:THR:O	2:Cp:168:ASN:HB3	2.13	0.47
2:Cr:140:LEU:HD22	2:Cr:190:ASN:CG	2.38	0.47
2:Cs:110:VAL:CG1	2:Cs:215:VAL:HA	2.43	0.47
2:Cs:140:LEU:HD22	2:Cs:190:ASN:CG	2.38	0.47
2:Cu:140:LEU:HD22	2:Cu:190:ASN:CG	2.38	0.47
2:Cu:167:THR:O	2:Cu:168:ASN:HB3	2.13	0.47
2:Cu:200:SER:HA	3:EB:61:TYR:CE2	2.48	0.47
2:Cv:32:THR:HG23	2:Cv:172:HIS:ND1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cw:115:ASN:HB2	3:DS:189:THR:HG22	1.96	0.47
3:D2:36:VAL:HA	3:D2:37:PRO:HD3	1.53	0.47
3:D3:36:VAL:HA	3:D3:37:PRO:HD3	1.53	0.47
3:D4:53:PHE:HB3	3:D4:60:PRO:CB	2.44	0.47
3:D4:73:LEU:HB3	3:D4:185:VAL:O	2.14	0.47
3:D4:130:ALA:O	3:D4:131:ALA:HB3	2.13	0.47
3:D5:75:GLN:HA	3:D5:183:LEU:O	2.14	0.47
3:D5:101:ARG:HD2	3:D5:165:ASP:O	2.14	0.47
3:D5:103:SER:HB2	3:D5:159:PRO:HA	1.95	0.47
3:D6:25:LEU:HD21	3:D7:15:MET:CG	2.44	0.47
3:D7:44:ILE:HG23	3:D7:45:ASP:N	2.30	0.47
3:D8:110:PHE:HB3	3:D8:148:VAL:HG11	1.96	0.47
3:DC:53:PHE:HB3	3:DC:60:PRO:CB	2.44	0.47
3:DC:70:ASP:HA	3:DC:135:ARG:HH12	1.79	0.47
3:DC:73:LEU:HB3	3:DC:185:VAL:O	2.14	0.47
3:DC:103:SER:HB2	3:DC:159:PRO:HA	1.95	0.47
3:DC:130:ALA:O	3:DC:131:ALA:HB3	2.13	0.47
3:DF:53:PHE:HB3	3:DF:60:PRO:CB	2.44	0.47
3:DF:110:PHE:HB3	3:DF:148:VAL:HG11	1.96	0.47
3:DG:53:PHE:HB3	3:DG:60:PRO:HB2	1.96	0.47
3:DG:73:LEU:HB3	3:DG:185:VAL:O	2.14	0.47
3:DG:75:GLN:HA	3:DG:183:LEU:O	2.14	0.47
3:DH:101:ARG:HA	3:DH:160:TYR:CE2	2.48	0.47
3:DI:73:LEU:HB3	3:DI:185:VAL:O	2.14	0.47
3:DJ:44:ILE:HG23	3:DJ:45:ASP:N	2.29	0.47
3:DJ:101:ARG:HD2	3:DJ:165:ASP:O	2.14	0.47
3:DK:53:PHE:HB3	3:DK:60:PRO:HB2	1.96	0.47
3:DM:110:PHE:HB3	3:DM:148:VAL:HG11	1.96	0.47
3:DN:80:LEU:HD12	3:DN:80:LEU:H	1.77	0.47
3:DO:110:PHE:HB3	3:DO:148:VAL:HG11	1.96	0.47
3:DP:73:LEU:HB3	3:DP:185:VAL:O	2.14	0.47
3:DQ:103:SER:HB2	3:DQ:159:PRO:HA	1.95	0.47
3:DQ:110:PHE:HB3	3:DQ:148:VAL:HG11	1.96	0.47
3:DR:56:ILE:CD1	3:DR:206:VAL:HG11	2.43	0.47
3:DR:110:PHE:HB3	3:DR:148:VAL:HG11	1.96	0.47
3:DT:73:LEU:HB3	3:DT:185:VAL:O	2.14	0.47
3:DT:101:ARG:HD2	3:DT:165:ASP:O	2.14	0.47
3:DT:110:PHE:HB3	3:DT:148:VAL:HG11	1.96	0.47
3:DT:157:ASN:O	3:DT:159:PRO:HD3	2.14	0.47
3:DX:101:ARG:HA	3:DX:160:TYR:CE2	2.48	0.47
3:DY:157:ASN:O	3:DY:159:PRO:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Da:73:LEU:HB3	3:Da:185:VAL:O	2.14	0.47
3:Dc:70:ASP:HA	3:Dc:135:ARG:HH12	1.79	0.47
3:Dd:53:PHE:HB3	3:Dd:60:PRO:CB	2.44	0.47
3:De:53:PHE:HB3	3:De:60:PRO:HB2	1.96	0.47
3:Df:25:LEU:HD21	3:Dg:15:MET:CG	2.44	0.47
3:Dk:84:GLU:H	3:Dk:84:GLU:CD	2.21	0.47
3:Dk:101:ARG:HD2	3:Dk:165:ASP:O	2.14	0.47
3:Dk:157:ASN:O	3:Dk:159:PRO:HD3	2.14	0.47
3:Dq:44:ILE:HG23	3:Dq:45:ASP:N	2.29	0.47
3:Dr:36:VAL:HA	3:Dr:37:PRO:HD3	1.53	0.47
3:Ds:75:GLN:HA	3:Ds:183:LEU:O	2.14	0.47
3:EB:53:PHE:HB3	3:EB:60:PRO:HB2	1.96	0.47
3:EB:157:ASN:O	3:EB:159:PRO:HD3	2.14	0.47
3:EC:44:ILE:HG23	3:EC:45:ASP:N	2.29	0.47
3:EC:70:ASP:HA	3:EC:135:ARG:HH12	1.79	0.47
3:EC:73:LEU:HB3	3:EC:185:VAL:O	2.14	0.47
3:EC:101:ARG:HD2	3:EC:165:ASP:O	2.14	0.47
3:EC:103:SER:HB3	3:EC:159:PRO:CA	2.35	0.47
3:ED:101:ARG:HD2	3:ED:165:ASP:O	2.14	0.47
4:Fr:30:TYR:N	4:Fr:30:TYR:CD1	2.81	0.47
1:A0:79:PHE:CD1	1:A0:79:PHE:C	2.92	0.47
1:A0:101:PHE:O	1:A0:199:SER:CB	2.62	0.47
1:A1:120:GLN:HB2	1:A1:129:ARG:HD3	1.96	0.47
1:A2:120:GLN:HB2	1:A2:129:ARG:HD3	1.96	0.47
1:A3:237:HIS:HB2	3:D4:81:SER:O	2.14	0.47
1:A4:4:VAL:HG22	3:D5:151:ASN:O	2.14	0.47
1:A4:17:HIS:O	2:C4:48:SER:HA	2.14	0.47
1:A4:113:THR:O	1:A4:133:LEU:HD12	2.14	0.47
1:A6:187:LEU:HD22	1:A6:188:PRO:N	2.30	0.47
1:A9:82:LEU:HD23	1:A9:84:LEU:HD11	1.94	0.47
1:A9:101:PHE:O	1:A9:199:SER:CB	2.62	0.47
1:AD:101:PHE:CD2	1:AD:143:VAL:HG11	2.44	0.47
1:AD:237:HIS:O	3:DD:171:SER:HB2	2.13	0.47
1:AF:37:PHE:CD1	1:AF:212:ARG:HB2	2.49	0.47
1:AH:105:LYS:HE3	1:AH:139:SER:OG	2.13	0.47
1:AI:37:PHE:CD1	1:AI:212:ARG:HB2	2.49	0.47
1:AJ:224:ILE:HD11	3:DJ:89:TYR:CZ	2.49	0.47
1:AK:4:VAL:HG22	3:DK:151:ASN:O	2.14	0.47
1:AK:101:PHE:O	1:AK:199:SER:CB	2.62	0.47
1:AK:224:ILE:HD11	3:DK:89:TYR:CZ	2.49	0.47
1:AN:37:PHE:CD1	1:AN:212:ARG:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:237:HIS:HB2	3:DO:81:SER:O	2.14	0.47
1:AP:120:GLN:HB2	1:AP:129:ARG:HD3	1.96	0.47
1:AS:101:PHE:O	1:AS:199:SER:CB	2.62	0.47
1:AV:224:ILE:HD11	3:DW:89:TYR:CZ	2.49	0.47
1:AX:101:PHE:O	1:AX:199:SER:CB	2.62	0.47
1:AX:103:TRP:HB2	1:AX:198:THR:HG23	1.96	0.47
1:AY:120:GLN:HB2	1:AY:129:ARG:HD3	1.96	0.47
1:AY:128:VAL:HG11	1:AZ:89:LYS:HG2	1.96	0.47
1:AZ:79:PHE:CD1	1:AZ:79:PHE:C	2.92	0.47
1:AZ:224:ILE:HD11	3:D0:89:TYR:CZ	2.49	0.47
1:Ac:79:PHE:CD1	1:Ac:79:PHE:C	2.92	0.47
1:Ae:101:PHE:O	1:Ae:199:SER:CB	2.62	0.47
1:Ae:113:THR:O	1:Ae:133:LEU:HD12	2.14	0.47
1:Af:176:ALA:C	1:Af:178:THR:H	2.22	0.47
1:Ag:4:VAL:HG22	3:Di:151:ASN:O	2.14	0.47
1:Ag:239:PHE:CD1	3:Di:170:TYR:CD2	2.96	0.47
1:Ai:239:PHE:CD1	3:Dk:170:TYR:CD2	2.96	0.47
1:Aj:17:HIS:O	2:Ck:48:SER:HA	2.15	0.47
1:Aj:128:VAL:HG11	1:Ak:89:LYS:HG2	1.96	0.47
1:Am:105:LYS:HE3	1:Am:139:SER:OG	2.13	0.47
1:An:37:PHE:CD1	1:An:212:ARG:HB2	2.49	0.47
1:Ao:37:PHE:CD1	1:Ao:212:ARG:HB2	2.49	0.47
1:BA:4:VAL:HG22	3:Dp:151:ASN:O	2.14	0.47
1:BA:13:THR:C	1:BA:14:GLU:HG3	2.38	0.47
1:BA:27:HIS:O	1:BA:33:LEU:HD21	2.13	0.47
1:BA:156:PHE:CG	3:Dp:25:LEU:HD12	2.49	0.47
1:BA:176:ALA:C	1:BA:178:THR:H	2.22	0.47
1:BB:79:PHE:CD1	1:BB:79:PHE:C	2.92	0.47
1:BB:105:LYS:HE3	1:BB:139:SER:OG	2.13	0.47
1:BC:105:LYS:HE3	1:BC:139:SER:OG	2.14	0.47
1:BD:101:PHE:O	1:BD:199:SER:CB	2.62	0.47
1:BE:110:GLY:H	1:BF:242:ASN:ND2	2.12	0.47
1:BE:160:TYR:CE1	1:BE:167:VAL:HG23	2.48	0.47
1:BF:79:PHE:CD1	1:BF:79:PHE:C	2.92	0.47
1:BG:17:HIS:O	2:Cu:48:SER:HA	2.14	0.47
1:BG:121:LEU:HD23	1:BH:42:THR:OG1	2.13	0.47
1:BH:128:VAL:HG11	1:BI:89:LYS:HG2	1.96	0.47
1:BI:17:HIS:O	2:Cw:48:SER:HA	2.14	0.47
1:BI:101:PHE:O	1:BI:199:SER:CB	2.62	0.47
2:C3:110:VAL:CG1	2:C3:215:VAL:HA	2.43	0.47
2:C9:153:GLN:CD	3:D9:55:SER:HB2	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:152:TYR:CE1	3:DA:60:PRO:HG3	2.48	0.47
2:CA:167:THR:O	2:CA:168:ASN:HB3	2.14	0.47
2:CC:13:ARG:HA	2:CC:13:ARG:HD3	1.72	0.47
2:CC:83:LEU:HA	2:CC:84:PRO:HA	1.60	0.47
2:CD:95:HIS:CD2	2:CD:95:HIS:C	2.92	0.47
2:CF:84:PRO:HD2	2:CF:186:LEU:HD22	1.95	0.47
2:CG:84:PRO:HD2	2:CG:186:LEU:HD22	1.94	0.47
2:CN:13:ARG:HA	2:CN:13:ARG:HD3	1.72	0.47
2:CN:200:SER:HA	3:DN:61:TYR:CE2	2.48	0.47
2:CO:226:LEU:CD2	3:DK:126:PRO:HG2	2.36	0.47
2:CP:152:TYR:HE1	3:DP:60:PRO:HB3	1.78	0.47
2:CR:115:ASN:HB2	3:EE:189:THR:HG22	1.96	0.47
2:CR:200:SER:HA	3:DR:61:TYR:CE2	2.48	0.47
2:CV:226:LEU:CD2	3:DW:126:PRO:HG2	2.36	0.47
2:CX:95:HIS:CD2	2:CX:95:HIS:C	2.92	0.47
2:Ca:226:LEU:CD2	3:Db:126:PRO:HG2	2.36	0.47
2:Cb:84:PRO:HD3	2:Cb:108:TRP:CZ2	2.49	0.47
2:Cc:176:PRO:HD2	2:Cc:192:TRP:CZ2	2.49	0.47
2:Cd:46:THR:CG2	3:D9:165:ASP:HA	2.38	0.47
2:Cd:153:GLN:CD	3:Dd:55:SER:HB2	2.39	0.47
2:Cf:32:THR:HG23	2:Cf:172:HIS:ND1	2.29	0.47
2:Cf:115:ASN:HB2	3:DV:189:THR:HG22	1.96	0.47
2:Cf:226:LEU:CD2	3:Dg:126:PRO:HG2	2.36	0.47
2:Cg:134:HIS:HB3	2:Cg:135:THR:H	1.46	0.47
2:Cm:153:GLN:CD	3:Dm:55:SER:HB2	2.39	0.47
2:Cn:84:PRO:HD3	2:Cn:108:TRP:CZ2	2.49	0.47
2:Cp:140:LEU:HD22	2:Cp:190:ASN:CG	2.38	0.47
2:Cp:153:GLN:CD	3:Dp:55:SER:HB2	2.39	0.47
2:Cq:176:PRO:HD2	2:Cq:192:TRP:CZ2	2.49	0.47
2:Cr:95:HIS:CD2	2:Cr:95:HIS:C	2.92	0.47
2:Cs:84:PRO:HD2	2:Cs:186:LEU:HD22	1.95	0.47
2:Ct:84:PRO:HD3	2:Ct:108:TRP:CZ2	2.49	0.47
2:Ct:115:ASN:HB2	3:DH:189:THR:HG22	1.96	0.47
2:Cw:153:GLN:CD	3:ED:55:SER:HB2	2.39	0.47
2:Cx:95:HIS:CD2	2:Cx:95:HIS:C	2.92	0.47
2:Cx:176:PRO:HD2	2:Cx:192:TRP:CZ2	2.49	0.47
3:D1:53:PHE:HB3	3:D1:60:PRO:CB	2.44	0.47
3:D1:75:GLN:HA	3:D1:183:LEU:O	2.14	0.47
3:D2:53:PHE:HB3	3:D2:60:PRO:CB	2.44	0.47
3:D4:84:GLU:H	3:D4:84:GLU:CD	2.21	0.47
3:D9:25:LEU:HD21	3:Da:15:MET:CG	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:75:GLN:HA	3:DA:183:LEU:O	2.14	0.47
3:DB:44:ILE:HG23	3:DB:45:ASP:N	2.29	0.47
3:DD:44:ILE:HG23	3:DD:45:ASP:N	2.29	0.47
3:DG:101:ARG:HA	3:DG:160:TYR:CE2	2.48	0.47
3:DG:101:ARG:HD2	3:DG:165:ASP:O	2.14	0.47
3:DH:53:PHE:HB3	3:DH:60:PRO:CB	2.44	0.47
3:DH:75:GLN:HA	3:DH:183:LEU:O	2.14	0.47
3:DI:75:GLN:HA	3:DI:183:LEU:O	2.14	0.47
3:DL:25:LEU:HD21	3:DM:15:MET:CG	2.45	0.47
3:DL:101:ARG:HD2	3:DL:165:ASP:O	2.14	0.47
3:DM:101:ARG:HD2	3:DM:165:ASP:O	2.14	0.47
3:DS:44:ILE:HG23	3:DS:45:ASP:N	2.30	0.47
3:DU:53:PHE:HB3	3:DU:60:PRO:CB	2.44	0.47
3:DV:110:PHE:HB3	3:DV:148:VAL:HG11	1.96	0.47
3:DX:75:GLN:HA	3:DX:183:LEU:O	2.14	0.47
3:DY:80:LEU:HD12	3:DY:80:LEU:H	1.78	0.47
3:DZ:73:LEU:HB3	3:DZ:185:VAL:O	2.14	0.47
3:Dc:110:PHE:HB3	3:Dc:148:VAL:HG11	1.96	0.47
3:Dd:84:GLU:CD	3:Dd:84:GLU:H	2.21	0.47
3:De:44:ILE:HG23	3:De:45:ASP:N	2.30	0.47
3:Df:70:ASP:HA	3:Df:135:ARG:HH12	1.79	0.47
3:Df:101:ARG:HA	3:Df:160:TYR:CE2	2.48	0.47
3:Dg:56:ILE:CD1	3:Dg:206:VAL:HG11	2.43	0.47
3:Dh:25:LEU:HD21	3:Di:15:MET:CG	2.45	0.47
3:Dh:130:ALA:O	3:Dh:131:ALA:HB3	2.13	0.47
3:Dj:25:LEU:HD21	3:Dk:15:MET:CG	2.45	0.47
3:Dm:101:ARG:HD2	3:Dm:165:ASP:O	2.14	0.47
3:Dm:157:ASN:O	3:Dm:159:PRO:HD3	2.14	0.47
3:Dn:53:PHE:HB3	3:Dn:60:PRO:HB2	1.95	0.47
3:Dq:75:GLN:HA	3:Dq:183:LEU:O	2.14	0.47
3:Dq:84:GLU:CD	3:Dq:84:GLU:H	2.21	0.47
3:Dq:101:ARG:HD2	3:Dq:165:ASP:O	2.14	0.47
3:Dr:44:ILE:HG23	3:Dr:45:ASP:N	2.30	0.47
3:Dr:73:LEU:HB3	3:Dr:185:VAL:O	2.14	0.47
3:Dr:130:ALA:O	3:Dr:131:ALA:HB3	2.13	0.47
3:Ds:84:GLU:H	3:Ds:84:GLU:CD	2.21	0.47
3:EA:157:ASN:O	3:EA:159:PRO:HD3	2.14	0.47
3:EB:36:VAL:HA	3:EB:37:PRO:HD3	1.53	0.47
3:EB:44:ILE:HG23	3:EB:45:ASP:N	2.30	0.47
3:EE:157:ASN:O	3:EE:159:PRO:HD3	2.14	0.47
4:F0:30:TYR:N	4:F0:30:TYR:CD1	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F7:30:TYR:CD1	4:F7:30:TYR:N	2.81	0.47
1:A1:156:PHE:CG	3:D2:25:LEU:HD12	2.49	0.47
1:A2:150:ARG:H	1:A2:150:ARG:HE	1.60	0.47
1:A2:156:PHE:CG	3:D3:25:LEU:HD12	2.49	0.47
1:A3:79:PHE:CD1	1:A3:79:PHE:C	2.92	0.47
1:A4:101:PHE:O	1:A4:199:SER:CB	2.62	0.47
1:A4:156:PHE:CG	3:D5:25:LEU:HD12	2.49	0.47
1:A6:17:HIS:O	2:C6:48:SER:HA	2.15	0.47
1:A8:17:HIS:O	2:Cd:48:SER:HA	2.14	0.47
1:A8:38:PHE:CD1	1:Ab:137:GLY:HA2	2.49	0.47
1:A8:128:VAL:HG11	1:A9:89:LYS:HG2	1.96	0.47
1:A8:137:GLY:HA2	1:A9:38:PHE:CD1	2.49	0.47
1:AA:101:PHE:O	1:AA:199:SER:CB	2.62	0.47
1:AA:156:PHE:CG	3:DA:25:LEU:HD12	2.49	0.47
1:AB:101:PHE:O	1:AB:199:SER:CB	2.62	0.47
1:AB:120:GLN:HB2	1:AB:129:ARG:HD3	1.96	0.47
1:AB:176:ALA:C	1:AB:178:THR:H	2.22	0.47
1:AC:27:HIS:O	1:AC:33:LEU:HD21	2.13	0.47
1:AC:40:VAL:HG22	1:AC:211:TYR:HE1	1.77	0.47
1:AF:224:ILE:HD11	3:DF:89:TYR:CZ	2.49	0.47
1:AG:105:LYS:HE3	1:AG:139:SER:OG	2.13	0.47
1:AG:156:PHE:CG	3:DG:25:LEU:HD12	2.49	0.47
1:AH:103:TRP:HB2	1:AH:198:THR:HG23	1.96	0.47
1:AJ:113:THR:O	1:AJ:133:LEU:HD12	2.14	0.47
1:AM:17:HIS:O	2:CL:48:SER:HA	2.14	0.47
1:AN:4:VAL:HG22	3:DN:151:ASN:O	2.14	0.47
1:AP:187:LEU:HD22	1:AP:188:PRO:N	2.30	0.47
1:AP:224:ILE:HD11	3:DP:89:TYR:CZ	2.49	0.47
1:AP:237:HIS:O	3:DP:171:SER:HB2	2.13	0.47
1:AQ:79:PHE:CD1	1:AQ:79:PHE:C	2.92	0.47
1:AS:17:HIS:O	2:CS:48:SER:HA	2.14	0.47
1:AT:101:PHE:O	1:AT:199:SER:CB	2.62	0.47
1:AU:37:PHE:CD1	1:AU:212:ARG:HB2	2.49	0.47
1:AU:237:HIS:HB2	3:DV:81:SER:O	2.14	0.47
1:AW:37:PHE:CD1	1:AW:212:ARG:HB2	2.49	0.47
1:AW:170:PHE:CD2	1:AW:222:ARG:CZ	2.87	0.47
1:AX:120:GLN:HB2	1:AX:129:ARG:HD3	1.97	0.47
1:AY:86:ILE:HD12	1:AY:86:ILE:H	1.72	0.47
1:AY:156:PHE:CG	3:DZ:25:LEU:HD12	2.49	0.47
1:Aa:103:TRP:HB2	1:Aa:198:THR:HG23	1.96	0.47
1:Ac:101:PHE:O	1:Ac:199:SER:CB	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:156:PHE:CG	3:Df:25:LEU:HD12	2.49	0.47
1:Af:4:VAL:HG22	3:Dh:151:ASN:O	2.14	0.47
1:Af:17:HIS:O	2:Cg:48:SER:HA	2.14	0.47
1:Af:113:THR:O	1:Af:133:LEU:HD12	2.14	0.47
1:Af:170:PHE:CD2	1:Af:222:ARG:CZ	2.87	0.47
1:Ah:176:ALA:C	1:Ah:178:THR:H	2.22	0.47
1:Ah:237:HIS:HB2	3:Dj:81:SER:O	2.14	0.47
1:Ai:156:PHE:CG	3:Dk:25:LEU:HD12	2.49	0.47
1:Ak:237:HIS:HB2	3:Dm:81:SER:O	2.14	0.47
1:Am:103:TRP:HB2	1:Am:198:THR:HG23	1.96	0.47
1:Ao:113:THR:O	1:Ao:133:LEU:HD12	2.14	0.47
1:Ao:120:GLN:HB2	1:Ao:129:ARG:HD3	1.96	0.47
1:BA:101:PHE:O	1:BA:199:SER:CB	2.62	0.47
1:BA:128:VAL:HG11	1:BB:89:LYS:HG2	1.96	0.47
1:BA:170:PHE:CD2	1:BA:222:ARG:CZ	2.87	0.47
1:BB:4:VAL:HG22	3:Dq:151:ASN:O	2.14	0.47
1:BB:120:GLN:HB2	1:BB:129:ARG:HD3	1.96	0.47
1:BB:128:VAL:HG11	1:BC:89:LYS:HG2	1.96	0.47
1:BC:37:PHE:CD1	1:BC:212:ARG:HB2	2.49	0.47
1:BD:237:HIS:O	3:Ds:171:SER:HB2	2.13	0.47
1:BE:37:PHE:CD1	1:BE:212:ARG:HB2	2.49	0.47
1:BE:187:LEU:HD22	1:BE:188:PRO:N	2.30	0.47
1:BF:105:LYS:HE3	1:BF:139:SER:OG	2.13	0.47
1:BG:101:PHE:O	1:BG:199:SER:CB	2.62	0.47
1:BG:120:GLN:HB2	1:BG:129:ARG:HD3	1.96	0.47
1:BH:27:HIS:O	1:BH:33:LEU:HD21	2.13	0.47
1:BH:224:ILE:HD11	3:ED:89:TYR:CZ	2.49	0.47
1:BI:4:VAL:HG22	3:EE:151:ASN:O	2.14	0.47
2:C2:84:PRO:HG3	2:C2:108:TRP:CH2	2.50	0.47
2:C3:84:PRO:HD3	2:C3:108:TRP:CZ2	2.49	0.47
2:C3:115:ASN:HB2	3:DU:189:THR:HG22	1.96	0.47
2:C4:83:LEU:HA	2:C4:84:PRO:HA	1.60	0.47
2:C4:95:HIS:CD2	2:C4:95:HIS:C	2.92	0.47
2:C5:95:HIS:CD2	2:C5:95:HIS:C	2.93	0.47
2:C5:115:ASN:HB2	3:DG:189:THR:HG22	1.96	0.47
2:C5:200:SER:HA	3:D5:61:TYR:CE2	2.48	0.47
2:C6:32:THR:HG23	2:C6:172:HIS:ND1	2.29	0.47
2:C7:176:PRO:HD2	2:C7:192:TRP:CZ2	2.49	0.47
2:C8:110:VAL:CG1	2:C8:215:VAL:HA	2.43	0.47
2:C9:32:THR:HG23	2:C9:172:HIS:ND1	2.29	0.47
2:CB:134:HIS:HB3	2:CB:135:THR:H	1.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:32:THR:HG23	2:CD:172:HIS:ND1	2.29	0.47
2:CD:140:LEU:HD22	2:CD:190:ASN:CG	2.38	0.47
2:CH:153:GLN:CD	3:DH:55:SER:HB2	2.39	0.47
2:CI:115:ASN:HB2	3:DX:189:THR:HG22	1.96	0.47
2:CJ:134:HIS:HB3	2:CJ:135:THR:H	1.47	0.47
2:CK:167:THR:O	2:CK:168:ASN:HB3	2.13	0.47
2:CM:200:SER:HA	3:DM:61:TYR:CE2	2.48	0.47
2:CN:83:LEU:HA	2:CN:84:PRO:HA	1.60	0.47
2:CP:84:PRO:HG3	2:CP:108:TRP:CH2	2.50	0.47
2:CQ:110:VAL:CG1	2:CQ:213:MET:HE3	2.42	0.47
2:CS:42:ARG:HA	2:CS:43:PRO:HD2	1.64	0.47
2:CX:176:PRO:HD2	2:CX:192:TRP:CZ2	2.49	0.47
2:CY:167:THR:O	2:CY:168:ASN:HB3	2.13	0.47
2:CZ:153:GLN:CD	3:DZ:55:SER:HB2	2.39	0.47
2:Ca:110:VAL:CG1	2:Ca:215:VAL:HA	2.43	0.47
2:Cd:167:THR:O	2:Cd:168:ASN:HB3	2.13	0.47
2:Ce:46:THR:CG2	3:Df:165:ASP:HA	2.38	0.47
2:Ce:95:HIS:CD2	2:Ce:95:HIS:C	2.93	0.47
2:Cf:83:LEU:HA	2:Cf:84:PRO:HA	1.60	0.47
2:Cg:176:PRO:HD2	2:Cg:192:TRP:CZ2	2.49	0.47
2:Ci:115:ASN:HB2	3:Dj:189:THR:HG22	1.96	0.47
2:Ci:153:GLN:CD	3:Di:55:SER:HB2	2.39	0.47
2:Cp:176:PRO:HD2	2:Cp:192:TRP:CZ2	2.49	0.47
2:Cr:167:THR:O	2:Cr:168:ASN:HB3	2.13	0.47
2:Cr:176:PRO:HD2	2:Cr:192:TRP:CZ2	2.49	0.47
2:Cs:83:LEU:HA	2:Cs:84:PRO:HA	1.60	0.47
2:Ct:95:HIS:CD2	2:Ct:95:HIS:C	2.92	0.47
2:Cw:110:VAL:CG1	2:Cw:215:VAL:HA	2.43	0.47
2:Cw:176:PRO:HD2	2:Cw:192:TRP:CZ2	2.49	0.47
3:D0:44:ILE:HG23	3:D0:45:ASP:N	2.29	0.47
3:D1:101:ARG:HD2	3:D1:165:ASP:O	2.14	0.47
3:D2:75:GLN:HA	3:D2:183:LEU:O	2.14	0.47
3:D2:80:LEU:HD12	3:D2:80:LEU:H	1.77	0.47
3:D3:44:ILE:HG23	3:D3:45:ASP:N	2.29	0.47
3:D3:103:SER:HB2	3:D3:159:PRO:HA	1.95	0.47
3:D3:160:TYR:HD1	3:D3:161:SER:N	2.13	0.47
3:D5:53:PHE:HB3	3:D5:60:PRO:HB2	1.96	0.47
3:D6:157:ASN:O	3:D6:159:PRO:HD3	2.14	0.47
3:D6:160:TYR:HD1	3:D6:161:SER:N	2.13	0.47
3:D7:75:GLN:HA	3:D7:183:LEU:O	2.14	0.47
3:D8:103:SER:HB3	3:D8:159:PRO:CA	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:36:VAL:HA	3:DA:37:PRO:HD3	1.53	0.47
3:DC:36:VAL:HA	3:DC:37:PRO:HD3	1.53	0.47
3:DC:53:PHE:HB3	3:DC:60:PRO:HB2	1.96	0.47
3:DC:110:PHE:HB3	3:DC:148:VAL:HG11	1.96	0.47
3:DD:157:ASN:O	3:DD:159:PRO:HD3	2.14	0.47
3:DE:80:LEU:HD12	3:DE:80:LEU:H	1.78	0.47
3:DG:70:ASP:HA	3:DG:135:ARG:HH12	1.79	0.47
3:DG:130:ALA:O	3:DG:131:ALA:HB3	2.13	0.47
3:DI:70:ASP:HA	3:DI:135:ARG:HH12	1.79	0.47
3:DI:101:ARG:HD2	3:DI:165:ASP:O	2.14	0.47
3:DK:101:ARG:HD2	3:DK:165:ASP:O	2.14	0.47
3:DQ:157:ASN:O	3:DQ:159:PRO:HD3	2.14	0.47
3:DR:70:ASP:HA	3:DR:135:ARG:HH12	1.79	0.47
3:DS:19:PRO:HG3	4:FS:17:ASN:ND2	2.26	0.47
3:DS:25:LEU:HD21	3:DT:15:MET:CG	2.45	0.47
3:DU:130:ALA:O	3:DU:131:ALA:HB3	2.13	0.47
3:DV:44:ILE:HG23	3:DV:45:ASP:N	2.29	0.47
3:DW:75:GLN:HA	3:DW:183:LEU:O	2.14	0.47
3:DW:157:ASN:O	3:DW:159:PRO:HD3	2.14	0.47
3:DX:53:PHE:HB3	3:DX:60:PRO:HB2	1.96	0.47
3:DY:44:ILE:HG23	3:DY:45:ASP:N	2.29	0.47
3:DZ:70:ASP:HA	3:DZ:135:ARG:HH12	1.79	0.47
3:Da:25:LEU:HD21	3:Db:15:MET:CG	2.45	0.47
3:Da:75:GLN:HA	3:Da:183:LEU:O	2.14	0.47
3:Db:25:LEU:HD21	3:Dc:15:MET:CG	2.45	0.47
3:Db:110:PHE:HB3	3:Db:148:VAL:HG11	1.96	0.47
3:Dc:130:ALA:O	3:Dc:131:ALA:HB3	2.13	0.47
3:Dd:75:GLN:HA	3:Dd:183:LEU:O	2.14	0.47
3:De:73:LEU:HB3	3:De:185:VAL:O	2.14	0.47
3:Dg:53:PHE:HB3	3:Dg:60:PRO:HB2	1.96	0.47
3:Dg:73:LEU:HB3	3:Dg:185:VAL:O	2.14	0.47
3:Di:73:LEU:HB3	3:Di:185:VAL:O	2.14	0.47
3:Dk:53:PHE:HB3	3:Dk:60:PRO:CB	2.44	0.47
3:Dl:75:GLN:HA	3:Dl:183:LEU:O	2.14	0.47
3:Dn:101:ARG:HD2	3:Dn:165:ASP:O	2.14	0.47
3:Dn:157:ASN:O	3:Dn:159:PRO:HD3	2.14	0.47
3:Dp:101:ARG:HA	3:Dp:160:TYR:CE2	2.48	0.47
3:Dq:80:LEU:HD12	3:Dq:80:LEU:H	1.77	0.47
3:Dq:157:ASN:O	3:Dq:159:PRO:HD3	2.14	0.47
3:Dr:75:GLN:HA	3:Dr:183:LEU:O	2.14	0.47
3:Ds:53:PHE:HB3	3:Ds:60:PRO:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ds:84:GLU:N	3:Ds:84:GLU:OE1	2.48	0.47
3:Ds:101:ARG:HD2	3:Ds:165:ASP:O	2.14	0.47
3:Ds:157:ASN:O	3:Ds:159:PRO:HD3	2.14	0.47
3:EA:25:LEU:HD21	3:EB:15:MET:CG	2.45	0.47
3:EB:53:PHE:HB3	3:EB:60:PRO:CB	2.44	0.47
3:EB:84:GLU:CD	3:EB:84:GLU:H	2.21	0.47
3:EB:110:PHE:HB3	3:EB:148:VAL:HG11	1.96	0.47
3:EC:53:PHE:HB3	3:EC:60:PRO:HB2	1.96	0.47
3:EC:157:ASN:O	3:EC:159:PRO:HD3	2.14	0.47
3:EE:44:ILE:HG23	3:EE:45:ASP:N	2.29	0.47
3:EE:101:ARG:HA	3:EE:160:TYR:CE2	2.48	0.47
4:Ff:30:TYR:N	4:Ff:30:TYR:CD1	2.81	0.47
1:A0:237:HIS:HB2	3:D1:81:SER:O	2.14	0.47
1:A1:27:HIS:O	1:A1:33:LEU:HD21	2.13	0.47
1:A1:237:HIS:HB2	3:D2:81:SER:O	2.14	0.47
1:A4:120:GLN:HB2	1:A4:129:ARG:HD3	1.96	0.47
1:A6:101:PHE:CD2	1:A6:143:VAL:HG11	2.44	0.47
1:A8:79:PHE:CD1	1:A8:79:PHE:C	2.92	0.47
1:A8:176:ALA:C	1:A8:178:THR:H	2.22	0.47
1:A9:105:LYS:HE3	1:A9:139:SER:OG	2.13	0.47
1:A9:110:GLY:H	1:An:242:ASN:ND2	2.12	0.47
1:AA:37:PHE:CD1	1:AA:212:ARG:HB2	2.49	0.47
1:AA:239:PHE:CD1	3:DA:170:TYR:CD2	2.96	0.47
1:AC:171:TYR:N	1:AC:185:ASN:OD1	2.45	0.47
1:AD:120:GLN:HB2	1:AD:129:ARG:HD3	1.96	0.47
1:AD:224:ILE:HD11	3:DD:89:TYR:CZ	2.49	0.47
1:AF:120:GLN:HB2	1:AF:129:ARG:HD3	1.96	0.47
1:AF:176:ALA:C	1:AF:178:THR:H	2.22	0.47
1:AH:121:LEU:HD23	1:AI:42:THR:OG1	2.13	0.47
1:AJ:4:VAL:HG22	3:DJ:151:ASN:O	2.13	0.47
1:AK:176:ALA:C	1:AK:178:THR:H	2.22	0.47
1:AL:120:GLN:HB2	1:AL:129:ARG:HD3	1.96	0.47
1:AM:105:LYS:HE3	1:AM:139:SER:OG	2.14	0.47
1:AS:89:LYS:HG2	1:Ao:128:VAL:HG11	1.96	0.47
1:AT:17:HIS:O	2:CY:48:SER:HA	2.14	0.47
1:AU:101:PHE:O	1:AU:199:SER:CB	2.62	0.47
1:AV:160:TYR:CE1	1:AV:167:VAL:HG23	2.48	0.47
1:AW:17:HIS:O	2:CW:48:SER:HA	2.15	0.47
1:AW:187:LEU:HD22	1:AW:188:PRO:N	2.30	0.47
1:AX:17:HIS:O	2:CX:48:SER:HA	2.15	0.47
1:AY:101:PHE:CD2	1:AY:143:VAL:HG11	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:103:TRP:HB2	1:Ab:198:THR:HG23	1.96	0.47
1:Ad:171:TYR:N	1:Ad:185:ASN:OD1	2.45	0.47
1:Af:120:GLN:HB2	1:Af:129:ARG:HD3	1.96	0.47
1:Af:187:LEU:HD22	1:Af:188:PRO:N	2.30	0.47
1:Ag:176:ALA:C	1:Ag:178:THR:H	2.22	0.47
1:Ag:237:HIS:O	3:Di:171:SER:HB2	2.13	0.47
1:Ai:103:TRP:HB2	1:Ai:198:THR:HG23	1.96	0.47
1:Ak:17:HIS:O	2:Cl:48:SER:HA	2.14	0.47
1:Ak:103:TRP:HB2	1:Ak:198:THR:HG23	1.96	0.47
1:Am:17:HIS:O	2:Cs:48:SER:HA	2.15	0.47
1:Am:101:PHE:CD2	1:Am:143:VAL:HG11	2.44	0.47
1:An:79:PHE:CD1	1:An:79:PHE:C	2.92	0.47
1:An:176:ALA:C	1:An:178:THR:H	2.22	0.47
1:BA:120:GLN:HB2	1:BA:129:ARG:HD3	1.96	0.47
1:BC:17:HIS:O	2:Cq:48:SER:HA	2.14	0.47
1:BE:17:HIS:O	2:Cx:48:SER:HA	2.14	0.47
1:BE:38:PHE:CD1	1:BI:137:GLY:HA2	2.49	0.47
1:BG:237:HIS:HB2	3:EC:81:SER:O	2.14	0.47
1:BH:4:VAL:HG22	3:ED:151:ASN:O	2.14	0.47
1:BH:17:HIS:O	2:Cv:48:SER:HA	2.14	0.47
1:BH:79:PHE:CD1	1:BH:79:PHE:C	2.92	0.47
1:BH:137:GLY:HA2	1:BI:38:PHE:CD1	2.49	0.47
2:C2:223:ASN:ND2	2:C2:223:ASN:N	2.60	0.47
2:C5:32:THR:HG23	2:C5:172:HIS:ND1	2.29	0.47
2:C6:153:GLN:CD	3:D6:55:SER:HB2	2.39	0.47
2:C6:167:THR:O	2:C6:168:ASN:HB3	2.13	0.47
2:C7:76:GLY:HA2	2:C7:197:LEU:HD21	1.97	0.47
2:CA:13:ARG:HD3	2:CA:13:ARG:HA	1.72	0.47
2:CA:115:ASN:HB2	3:DW:189:THR:HG22	1.96	0.47
2:CC:134:HIS:HB3	2:CC:135:THR:H	1.46	0.47
2:CD:176:PRO:HD2	2:CD:192:TRP:CZ2	2.49	0.47
2:CF:95:HIS:CD2	2:CF:95:HIS:C	2.93	0.47
2:CG:223:ASN:ND2	2:CG:223:ASN:N	2.60	0.47
2:CI:49:ASP:HA	2:CI:50:PRO:HD2	1.80	0.47
2:CJ:84:PRO:HD2	2:CJ:186:LEU:HD22	1.94	0.47
2:CJ:176:PRO:HD2	2:CJ:192:TRP:CZ2	2.49	0.47
2:CK:176:PRO:HD2	2:CK:192:TRP:CZ2	2.49	0.47
2:CL:167:THR:O	2:CL:168:ASN:HB3	2.13	0.47
2:CM:153:GLN:CD	3:DM:55:SER:HB2	2.39	0.47
2:CN:115:ASN:HB2	3:D2:189:THR:HG22	1.96	0.47
2:CN:176:PRO:HD2	2:CN:192:TRP:CZ2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CP:95:HIS:CD2	2:CP:95:HIS:C	2.93	0.47
2:CP:167:THR:O	2:CP:168:ASN:HB3	2.13	0.47
2:CQ:84:PRO:HD2	2:CQ:186:LEU:HD22	1.94	0.47
2:CQ:153:GLN:CD	3:DQ:55:SER:HB2	2.39	0.47
2:CS:84:PRO:HG3	2:CS:108:TRP:CH2	2.50	0.47
2:CT:153:GLN:CD	3:DT:55:SER:HB2	2.39	0.47
2:CV:115:ASN:HB2	3:DB:189:THR:HG22	1.96	0.47
2:CW:153:GLN:CD	3:DW:55:SER:HB2	2.39	0.47
2:CX:42:ARG:HA	2:CX:43:PRO:HD2	1.64	0.47
2:CZ:115:ASN:HB2	3:Dq:189:THR:HG22	1.96	0.47
2:Ca:167:THR:O	2:Ca:168:ASN:HB3	2.13	0.47
2:Cb:176:PRO:HD2	2:Cb:192:TRP:CZ2	2.49	0.47
2:Cd:23:ILE:HD12	2:Cd:23:ILE:H	1.80	0.47
2:Cd:84:PRO:HD3	2:Cd:108:TRP:CZ2	2.49	0.47
2:Ce:134:HIS:HB3	2:Ce:135:THR:H	1.47	0.47
2:Cg:115:ASN:HB2	3:D3:189:THR:HG22	1.96	0.47
2:Ch:167:THR:O	2:Ch:168:ASN:HB3	2.13	0.47
2:Ci:95:HIS:CD2	2:Ci:95:HIS:C	2.93	0.47
2:Cj:176:PRO:HD2	2:Cj:192:TRP:CZ2	2.49	0.47
2:Cl:115:ASN:HB2	3:D8:189:THR:HG22	1.97	0.47
2:Cl:176:PRO:HD2	2:Cl:192:TRP:CZ2	2.49	0.47
2:Cm:84:PRO:HD3	2:Cm:108:TRP:CZ2	2.49	0.47
2:Cn:83:LEU:HA	2:Cn:84:PRO:HA	1.60	0.47
2:Cn:140:LEU:HD22	2:Cn:190:ASN:CG	2.38	0.47
2:Cn:167:THR:O	2:Cn:168:ASN:HB3	2.13	0.47
2:Co:167:THR:O	2:Co:168:ASN:HB3	2.13	0.47
2:Co:212:THR:HG23	3:DR:188:LEU:HD22	1.96	0.47
2:Cp:84:PRO:HG2	2:Cp:88:LEU:HG	1.97	0.47
2:Cx:153:GLN:CD	3:EE:55:SER:HB2	2.39	0.47
3:D1:44:ILE:HG23	3:D1:45:ASP:N	2.29	0.47
3:D2:44:ILE:HG23	3:D2:45:ASP:N	2.29	0.47
3:D2:53:PHE:HB3	3:D2:60:PRO:HB2	1.96	0.47
3:D4:103:SER:HB2	3:D4:159:PRO:HA	1.95	0.47
3:D6:56:ILE:CD1	3:D6:206:VAL:HG11	2.43	0.47
3:D6:70:ASP:HA	3:D6:135:ARG:HH12	1.79	0.47
3:D7:101:ARG:HD2	3:D7:165:ASP:O	2.14	0.47
3:D9:103:SER:HB2	3:D9:159:PRO:HA	1.95	0.47
3:DA:15:MET:CG	3:DE:25:LEU:HD21	2.45	0.47
3:DA:70:ASP:HA	3:DA:135:ARG:HH12	1.79	0.47
3:DA:73:LEU:HB3	3:DA:185:VAL:O	2.14	0.47
3:DD:25:LEU:HD21	3:DE:15:MET:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:110:PHE:HB3	3:DD:148:VAL:HG11	1.96	0.47
3:DF:73:LEU:HB3	3:DF:185:VAL:O	2.14	0.47
3:DI:25:LEU:HD21	3:DJ:15:MET:CG	2.45	0.47
3:DI:53:PHE:HB3	3:DI:60:PRO:HB2	1.96	0.47
3:DI:157:ASN:O	3:DI:159:PRO:HD3	2.14	0.47
3:DJ:73:LEU:HB3	3:DJ:185:VAL:O	2.14	0.47
3:DL:75:GLN:HA	3:DL:183:LEU:O	2.14	0.47
3:DL:160:TYR:HD1	3:DL:161:SER:N	2.13	0.47
3:DO:84:GLU:N	3:DO:84:GLU:OE1	2.48	0.47
3:DP:84:GLU:CD	3:DP:84:GLU:H	2.21	0.47
3:DP:157:ASN:O	3:DP:159:PRO:HD3	2.14	0.47
3:DP:160:TYR:HD1	3:DP:161:SER:N	2.13	0.47
3:DS:53:PHE:HB3	3:DS:60:PRO:CB	2.44	0.47
3:DT:80:LEU:HD12	3:DT:80:LEU:H	1.77	0.47
3:DU:103:SER:HB2	3:DU:159:PRO:HA	1.95	0.47
3:DW:53:PHE:HB3	3:DW:60:PRO:HB2	1.96	0.47
3:DX:25:LEU:HD21	3:DY:15:MET:CG	2.45	0.47
3:DX:84:GLU:CD	3:DX:84:GLU:H	2.21	0.47
3:DY:53:PHE:HB3	3:DY:60:PRO:HB2	1.96	0.47
3:Da:53:PHE:HB3	3:Da:60:PRO:CB	2.44	0.47
3:Dd:53:PHE:HB3	3:Dd:60:PRO:HB2	1.96	0.47
3:De:70:ASP:HA	3:De:135:ARG:HH12	1.79	0.47
3:Dg:19:PRO:HG3	4:Fg:17:ASN:ND2	2.26	0.47
3:Dg:44:ILE:HG23	3:Dg:45:ASP:N	2.30	0.47
3:Dg:157:ASN:O	3:Dg:159:PRO:HD3	2.14	0.47
3:Dh:53:PHE:HB3	3:Dh:60:PRO:HB2	1.96	0.47
3:Dh:101:ARG:HA	3:Dh:160:TYR:CE2	2.48	0.47
3:Di:75:GLN:HA	3:Di:183:LEU:O	2.14	0.47
3:Dm:53:PHE:HB3	3:Dm:60:PRO:HB2	1.96	0.47
3:Dm:73:LEU:HB3	3:Dm:185:VAL:O	2.14	0.47
3:Dn:36:VAL:HA	3:Dn:37:PRO:HD3	1.53	0.47
3:Dn:44:ILE:HG23	3:Dn:45:ASP:N	2.30	0.47
3:Do:110:PHE:HB3	3:Do:148:VAL:HG11	1.96	0.47
3:Dp:53:PHE:HB3	3:Dp:60:PRO:HB2	1.95	0.47
3:Dp:80:LEU:HD12	3:Dp:80:LEU:H	1.77	0.47
3:Dp:101:ARG:HD2	3:Dp:165:ASP:O	2.14	0.47
3:Ds:130:ALA:O	3:Ds:131:ALA:HB3	2.13	0.47
4:F6:30:TYR:N	4:F6:30:TYR:CD1	2.81	0.47
4:FD:30:TYR:N	4:FD:30:TYR:CD1	2.81	0.47
4:FH:30:TYR:N	4:FH:30:TYR:CD1	2.81	0.47
4:FN:30:TYR:N	4:FN:30:TYR:CD1	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FP:30:TYR:N	4:FP:30:TYR:CD1	2.81	0.47
4:FV:30:TYR:N	4:FV:30:TYR:CD1	2.81	0.47
1:A0:17:HIS:O	2:C0:48:SER:HA	2.15	0.47
1:A0:105:LYS:HE3	1:A0:139:SER:OG	2.13	0.47
1:A0:113:THR:O	1:A0:133:LEU:HD12	2.14	0.47
1:A0:128:VAL:HG11	1:A1:89:LYS:HG2	1.96	0.47
1:A1:37:PHE:CD1	1:A1:212:ARG:HB2	2.49	0.47
1:A2:176:ALA:C	1:A2:178:THR:H	2.22	0.47
1:A3:37:PHE:CD1	1:A3:212:ARG:HB2	2.49	0.47
1:A3:113:THR:O	1:A3:133:LEU:HD12	2.14	0.47
1:A4:13:THR:C	1:A4:14:GLU:HG3	2.38	0.47
1:A4:37:PHE:CD1	1:A4:212:ARG:HB2	2.49	0.47
1:A4:139:SER:HA	1:A4:140:PRO:HD3	1.62	0.47
1:A4:171:TYR:N	1:A4:185:ASN:OD1	2.45	0.47
1:A5:13:THR:C	1:A5:14:GLU:HG3	2.38	0.47
1:A5:110:GLY:H	1:A6:242:ASN:ND2	2.12	0.47
1:A5:224:ILE:HD11	3:D6:89:TYR:CZ	2.49	0.47
1:A8:187:LEU:HD22	1:A8:188:PRO:N	2.30	0.47
1:A8:224:ILE:HD11	3:D9:89:TYR:CZ	2.49	0.47
1:A9:103:TRP:HB2	1:A9:198:THR:HG23	1.96	0.47
1:AA:101:PHE:CD2	1:AA:143:VAL:CG1	2.91	0.47
1:AA:139:SER:HA	1:AA:140:PRO:HD3	1.62	0.47
1:AC:17:HIS:O	2:CB:48:SER:HA	2.14	0.47
1:AC:105:LYS:HE3	1:AC:139:SER:OG	2.13	0.47
1:AD:156:PHE:CG	3:DD:25:LEU:HD12	2.49	0.47
1:AD:187:LEU:HD22	1:AD:188:PRO:N	2.30	0.47
1:AF:103:TRP:HB2	1:AF:198:THR:HG23	1.96	0.47
1:AF:113:THR:O	1:AF:133:LEU:HD12	2.14	0.47
1:AG:17:HIS:O	2:CF:48:SER:HA	2.14	0.47
1:AG:103:TRP:HB2	1:AG:198:THR:HG23	1.96	0.47
1:AG:110:GLY:H	1:AH:242:ASN:ND2	2.12	0.47
1:AK:237:HIS:HB2	3:DK:81:SER:O	2.14	0.47
1:AL:171:TYR:N	1:AL:185:ASN:OD1	2.44	0.47
1:AN:17:HIS:O	2:CM:48:SER:HA	2.15	0.47
1:AN:113:THR:O	1:AN:133:LEU:HD12	2.14	0.47
1:AO:13:THR:C	1:AO:14:GLU:HG3	2.38	0.47
1:AQ:17:HIS:O	2:CP:48:SER:HA	2.14	0.47
1:AQ:37:PHE:CD1	1:AQ:212:ARG:HB2	2.49	0.47
1:AS:105:LYS:HE3	1:AS:139:SER:OG	2.14	0.47
1:AT:156:PHE:CG	3:DU:25:LEU:HD12	2.49	0.47
1:AU:79:PHE:CD1	1:AU:79:PHE:C	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:103:TRP:HB2	1:AU:198:THR:HG23	1.96	0.47
1:AU:120:GLN:HB2	1:AU:129:ARG:HD3	1.96	0.47
1:AV:187:LEU:HD22	1:AV:188:PRO:N	2.30	0.47
1:AW:156:PHE:CG	3:DX:25:LEU:HD12	2.49	0.47
1:AZ:105:LYS:HE3	1:AZ:139:SER:OG	2.13	0.47
1:AZ:156:PHE:CG	3:D0:25:LEU:HD12	2.49	0.47
1:Aa:113:THR:O	1:Aa:133:LEU:HD12	2.14	0.47
1:Ab:105:LYS:HE3	1:Ab:139:SER:OG	2.13	0.47
1:Ac:38:PHE:CD1	1:Ag:137:GLY:HA2	2.48	0.47
1:Ad:137:GLY:HA2	1:Ae:38:PHE:CD1	2.49	0.47
1:Ae:105:LYS:HE3	1:Ae:139:SER:OG	2.13	0.47
1:Ae:110:GLY:H	1:Af:242:ASN:ND2	2.12	0.47
1:Af:79:PHE:CD1	1:Af:79:PHE:C	2.92	0.47
1:Af:101:PHE:O	1:Af:199:SER:CB	2.62	0.47
1:Ag:17:HIS:O	2:Ch:48:SER:HA	2.14	0.47
1:Ah:43:LEU:N	1:Ah:43:LEU:CD2	2.74	0.47
1:Ah:79:PHE:CD1	1:Ah:79:PHE:C	2.92	0.47
1:Ah:120:GLN:HB2	1:Ah:129:ARG:HD3	1.96	0.47
1:Aj:187:LEU:HD22	1:Aj:188:PRO:N	2.30	0.47
1:An:87:GLN:O	1:An:88:PHE:CB	2.62	0.47
1:Ao:87:GLN:O	1:Ao:88:PHE:CB	2.62	0.47
1:Ao:101:PHE:CD2	1:Ao:143:VAL:HG11	2.44	0.47
1:BC:176:ALA:C	1:BC:178:THR:H	2.22	0.47
1:BG:79:PHE:CD1	1:BG:79:PHE:C	2.92	0.47
1:BG:113:THR:O	1:BG:133:LEU:HD12	2.14	0.47
1:BG:157:SER:CB	3:EC:24:PRO:HA	2.35	0.47
1:BG:170:PHE:CD2	1:BG:222:ARG:CZ	2.87	0.47
2:C2:167:THR:O	2:C2:168:ASN:HB3	2.13	0.47
2:C4:32:THR:HG23	2:C4:172:HIS:ND1	2.29	0.47
2:C4:176:PRO:HD2	2:C4:192:TRP:CZ2	2.49	0.47
2:C6:207:GLN:HB3	3:DE:196:ILE:CG2	2.45	0.47
2:C8:84:PRO:HG3	2:C8:108:TRP:CH2	2.50	0.47
2:C9:207:GLN:HB3	3:DI:196:ILE:CG2	2.45	0.47
2:CB:84:PRO:HG3	2:CB:108:TRP:CH2	2.50	0.47
2:CB:84:PRO:HD2	2:CB:186:LEU:HD22	1.95	0.47
2:CC:32:THR:HG23	2:CC:172:HIS:ND1	2.29	0.47
2:CD:153:GLN:CD	3:DD:55:SER:HB2	2.39	0.47
2:CG:167:THR:O	2:CG:168:ASN:HB3	2.13	0.47
2:CH:115:ASN:HB2	3:Ds:189:THR:HG22	1.96	0.47
2:CI:167:THR:O	2:CI:168:ASN:HB3	2.13	0.47
2:CJ:140:LEU:HD22	2:CJ:190:ASN:CG	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:32:THR:HG23	2:CL:172:HIS:ND1	2.29	0.47
2:CR:167:THR:O	2:CR:168:ASN:HB3	2.13	0.47
2:CS:84:PRO:HG2	2:CS:88:LEU:HG	1.97	0.47
2:CS:176:PRO:HD2	2:CS:192:TRP:CZ2	2.49	0.47
2:CV:84:PRO:HG2	2:CV:88:LEU:HG	1.97	0.47
2:CW:115:ASN:HB2	3:DJ:189:THR:HG22	1.96	0.47
2:CX:36:TYR:CE2	2:CX:130:PRO:CG	2.98	0.47
2:CZ:13:ARG:HA	2:CZ:13:ARG:HD3	1.72	0.47
2:CZ:95:HIS:CD2	2:CZ:95:HIS:C	2.93	0.47
2:Ca:95:HIS:CD2	2:Ca:95:HIS:C	2.93	0.47
2:Ca:115:ASN:HB2	3:DL:189:THR:HG22	1.96	0.47
2:Cd:84:PRO:HG3	2:Cd:108:TRP:CH2	2.50	0.47
2:Ce:152:TYR:HE1	3:De:60:PRO:HB3	1.78	0.47
2:Cg:23:ILE:HD12	2:Cg:23:ILE:H	1.80	0.47
2:Ci:32:THR:HG23	2:Ci:172:HIS:ND1	2.29	0.47
2:Cj:84:PRO:HD3	2:Cj:108:TRP:CZ2	2.49	0.47
2:Cj:84:PRO:HG3	2:Cj:108:TRP:CH2	2.50	0.47
2:Cn:115:ASN:HB2	3:De:189:THR:HG22	1.97	0.47
2:Cn:176:PRO:HD2	2:Cn:192:TRP:CZ2	2.49	0.47
2:Cs:115:ASN:HB2	3:EA:189:THR:HG22	1.97	0.47
2:Ct:140:LEU:HD22	2:Ct:190:ASN:CG	2.38	0.47
2:Ct:180:PRO:HD2	2:Ct:189:HIS:HE1	1.77	0.47
2:Cv:140:LEU:HD22	2:Cv:190:ASN:CG	2.38	0.47
2:Cv:167:THR:O	2:Cv:168:ASN:HB3	2.13	0.47
2:Cx:115:ASN:HB2	3:Do:189:THR:HG22	1.96	0.47
3:D0:15:MET:HG2	3:DZ:25:LEU:HD21	1.97	0.47
3:D0:53:PHE:HB3	3:D0:60:PRO:CB	2.44	0.47
3:D1:80:LEU:HD12	3:D1:80:LEU:H	1.77	0.47
3:D2:73:LEU:HB3	3:D2:185:VAL:O	2.14	0.47
3:D3:53:PHE:HB3	3:D3:60:PRO:CB	2.44	0.47
3:D4:70:ASP:HA	3:D4:135:ARG:HH12	1.79	0.47
3:D9:25:LEU:HD21	3:Da:15:MET:HG2	1.97	0.47
3:DA:25:LEU:HD21	3:DB:15:MET:CG	2.44	0.47
3:DA:101:ARG:HD2	3:DA:165:ASP:O	2.14	0.47
3:DE:101:ARG:HD2	3:DE:165:ASP:O	2.14	0.47
3:DE:157:ASN:O	3:DE:159:PRO:HD3	2.14	0.47
3:DF:25:LEU:HD21	3:DG:15:MET:HG2	1.97	0.47
3:DF:53:PHE:HB3	3:DF:60:PRO:HB2	1.96	0.47
3:DF:70:ASP:HA	3:DF:135:ARG:HH12	1.79	0.47
3:DG:25:LEU:HD21	3:DH:15:MET:CG	2.44	0.47
3:DJ:157:ASN:O	3:DJ:159:PRO:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DK:75:GLN:HA	3:DK:183:LEU:O	2.14	0.47
3:DK:110:PHE:HB3	3:DK:148:VAL:HG11	1.96	0.47
3:DL:70:ASP:HA	3:DL:135:ARG:HH12	1.79	0.47
3:DL:157:ASN:O	3:DL:159:PRO:HD3	2.14	0.47
3:DO:53:PHE:HB3	3:DO:60:PRO:HB2	1.96	0.47
3:DP:53:PHE:HB3	3:DP:60:PRO:CB	2.44	0.47
3:DQ:25:LEU:HD21	3:DR:15:MET:CG	2.44	0.47
3:DS:25:LEU:HD21	3:DT:15:MET:HG2	1.97	0.47
3:DS:84:GLU:CD	3:DS:84:GLU:H	2.21	0.47
3:DS:101:ARG:HD2	3:DS:165:ASP:O	2.14	0.47
3:DU:84:GLU:N	3:DU:84:GLU:OE1	2.48	0.47
3:DU:101:ARG:HD2	3:DU:165:ASP:O	2.14	0.47
3:DV:101:ARG:HD2	3:DV:165:ASP:O	2.14	0.47
3:DW:25:LEU:HD21	3:DX:15:MET:CG	2.45	0.47
3:DW:44:ILE:HG23	3:DW:45:ASP:N	2.29	0.47
3:Da:44:ILE:HG23	3:Da:45:ASP:N	2.29	0.47
3:Da:101:ARG:HD2	3:Da:165:ASP:O	2.14	0.47
3:Db:75:GLN:HA	3:Db:183:LEU:O	2.14	0.47
3:Db:157:ASN:O	3:Db:159:PRO:HD3	2.14	0.47
3:Dd:160:TYR:HD1	3:Dd:161:SER:N	2.13	0.47
3:Df:25:LEU:HD21	3:Dg:15:MET:HG2	1.97	0.47
3:Di:84:GLU:H	3:Di:84:GLU:CD	2.21	0.47
3:Dj:110:PHE:HB3	3:Dj:148:VAL:HG11	1.96	0.47
3:Dl:84:GLU:H	3:Dl:84:GLU:CD	2.21	0.47
3:Dm:53:PHE:HB3	3:Dm:60:PRO:CB	2.44	0.47
3:Do:44:ILE:HG23	3:Do:45:ASP:N	2.29	0.47
3:Dq:36:VAL:HA	3:Dq:37:PRO:HD3	1.53	0.47
3:Dr:25:LEU:HD21	3:Ds:15:MET:CG	2.45	0.47
3:Dr:160:TYR:HD1	3:Dr:161:SER:N	2.13	0.47
3:EA:19:PRO:HG3	4:Ft:17:ASN:ND2	2.26	0.47
3:EA:44:ILE:HG23	3:EA:45:ASP:N	2.30	0.47
3:EB:101:ARG:HD2	3:EB:165:ASP:O	2.14	0.47
3:EC:25:LEU:HD21	3:ED:15:MET:CG	2.45	0.47
3:EC:75:GLN:HA	3:EC:183:LEU:O	2.14	0.47
3:ED:53:PHE:HB3	3:ED:60:PRO:HB2	1.96	0.47
3:EE:53:PHE:HB3	3:EE:60:PRO:HB2	1.96	0.47
4:FS:30:TYR:N	4:FS:30:TYR:CD1	2.81	0.47
1:A0:187:LEU:HD22	1:A0:188:PRO:N	2.30	0.47
1:A1:79:PHE:CD1	1:A1:79:PHE:C	2.92	0.47
1:A3:27:HIS:O	1:A3:33:LEU:HD21	2.13	0.47
1:A3:128:VAL:HG11	1:A4:89:LYS:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:156:PHE:CG	3:D4:25:LEU:HD12	2.49	0.47
1:A5:79:PHE:C	1:A5:79:PHE:CD1	2.92	0.47
1:A5:120:GLN:HB2	1:A5:129:ARG:HD3	1.96	0.47
1:A7:79:PHE:CD1	1:A7:79:PHE:C	2.92	0.47
1:A8:113:THR:O	1:A8:133:LEU:HD12	2.14	0.47
1:A8:156:PHE:CG	3:D9:25:LEU:HD12	2.49	0.47
1:A9:4:VAL:HG22	3:Da:151:ASN:O	2.14	0.47
1:A9:17:HIS:O	2:C9:48:SER:HA	2.15	0.47
1:A9:27:HIS:O	1:A9:33:LEU:HD21	2.13	0.47
1:AA:242:ASN:ND2	1:AE:110:GLY:H	2.12	0.47
1:AC:13:THR:C	1:AC:14:GLU:HG3	2.38	0.47
1:AD:121:LEU:HD23	1:AE:42:THR:OG1	2.13	0.47
1:AH:120:GLN:HB2	1:AH:129:ARG:HD3	1.96	0.47
1:AH:156:PHE:CG	3:DH:25:LEU:HD12	2.49	0.47
1:AI:79:PHE:CD1	1:AI:79:PHE:C	2.92	0.47
1:AL:187:LEU:HD22	1:AL:188:PRO:N	2.30	0.47
1:AL:237:HIS:HB2	3:DL:81:SER:O	2.14	0.47
1:AO:156:PHE:CG	3:DO:25:LEU:HD12	2.49	0.47
1:AO:176:ALA:C	1:AO:178:THR:H	2.22	0.47
1:AP:37:PHE:CD1	1:AP:212:ARG:HB2	2.49	0.47
1:AP:156:PHE:CG	3:DP:25:LEU:HD12	2.49	0.47
1:AQ:105:LYS:HE3	1:AQ:139:SER:OG	2.14	0.47
1:AT:13:THR:C	1:AT:14:GLU:HG3	2.38	0.47
1:AU:170:PHE:CD2	1:AU:222:ARG:CZ	2.87	0.47
1:AU:176:ALA:C	1:AU:178:THR:H	2.22	0.47
1:AU:224:ILE:HD11	3:DV:89:TYR:CZ	2.49	0.47
1:AV:101:PHE:O	1:AV:199:SER:CB	2.62	0.47
1:AV:237:HIS:HB2	3:DW:81:SER:O	2.14	0.47
1:AX:171:TYR:N	1:AX:185:ASN:OD1	2.45	0.47
1:Aa:101:PHE:CD2	1:Aa:143:VAL:CG1	2.91	0.47
1:Ab:17:HIS:O	2:Cc:48:SER:HA	2.14	0.47
1:Ab:176:ALA:C	1:Ab:178:THR:H	2.22	0.47
1:Ad:139:SER:HA	1:Ad:140:PRO:HD3	1.62	0.47
1:Ak:101:PHE:CD2	1:Ak:143:VAL:HG11	2.44	0.47
1:Ak:113:THR:O	1:Ak:133:LEU:HD12	2.14	0.47
1:Am:120:GLN:HB2	1:Am:129:ARG:HD3	1.96	0.47
1:Am:237:HIS:O	3:Do:171:SER:HB2	2.13	0.47
1:Ao:156:PHE:CG	3:DS:25:LEU:HD12	2.49	0.47
1:BC:79:PHE:CD1	1:BC:79:PHE:C	2.92	0.47
1:BC:137:GLY:HA2	1:BD:38:PHE:CD1	2.49	0.47
1:BC:187:LEU:HD22	1:BC:188:PRO:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:120:GLN:HB2	1:BD:129:ARG:HD3	1.96	0.47
1:BF:103:TRP:HB2	1:BF:198:THR:HG23	1.96	0.47
1:BG:101:PHE:CD2	1:BG:143:VAL:CG1	2.91	0.47
1:BH:156:PHE:CG	3:ED:25:LEU:HD12	2.49	0.47
1:BI:103:TRP:HB2	1:BI:198:THR:HG23	1.96	0.47
1:BI:171:TYR:N	1:BI:185:ASN:OD1	2.45	0.47
2:C0:84:PRO:HD3	2:C0:108:TRP:CZ2	2.49	0.47
2:C8:207:GLN:HB3	3:D9:196:ILE:CG2	2.45	0.47
2:C9:115:ASN:CA	3:DI:119:LYS:HZ3	2.28	0.47
2:C9:212:THR:HG23	3:DI:188:LEU:HD22	1.96	0.47
2:CA:84:PRO:HG2	2:CA:88:LEU:HG	1.97	0.47
2:CA:153:GLN:CD	3:DA:55:SER:HB2	2.39	0.47
2:CB:74:SER:O	2:CB:75:HIS:C	2.58	0.47
2:CB:83:LEU:HA	2:CB:84:PRO:HA	1.60	0.47
2:CB:84:PRO:HD3	2:CB:108:TRP:CZ2	2.49	0.47
2:CB:115:ASN:HB2	3:Df:189:THR:HG22	1.96	0.47
2:CD:74:SER:O	2:CD:75:HIS:C	2.58	0.47
2:CD:84:PRO:HG2	2:CD:88:LEU:HG	1.97	0.47
2:CE:176:PRO:HD2	2:CE:192:TRP:CZ2	2.49	0.47
2:CF:74:SER:O	2:CF:75:HIS:C	2.58	0.47
2:CF:84:PRO:HG3	2:CF:108:TRP:CH2	2.50	0.47
2:CG:32:THR:HG23	2:CG:172:HIS:ND1	2.29	0.47
2:CG:84:PRO:HG3	2:CG:108:TRP:CH2	2.50	0.47
2:CH:74:SER:O	2:CH:75:HIS:C	2.58	0.47
2:CH:84:PRO:HG2	2:CH:88:LEU:HG	1.97	0.47
2:CH:95:HIS:CD2	2:CH:95:HIS:C	2.93	0.47
2:CH:212:THR:HG23	3:Ds:188:LEU:HD22	1.96	0.47
2:CJ:115:ASN:HB2	3:DA:189:THR:HG22	1.96	0.47
2:CK:32:THR:HG23	2:CK:172:HIS:ND1	2.29	0.47
2:CK:83:LEU:HA	2:CK:84:PRO:HA	1.60	0.47
2:CN:84:PRO:HG3	2:CN:108:TRP:CH2	2.50	0.47
2:CN:134:HIS:HB3	2:CN:135:THR:H	1.46	0.47
2:CT:115:ASN:HB2	3:DK:189:THR:HG22	1.97	0.47
2:CU:153:GLN:CD	3:DU:55:SER:HB2	2.39	0.47
2:CW:84:PRO:HG2	2:CW:88:LEU:HG	1.97	0.47
2:CW:95:HIS:CD2	2:CW:95:HIS:C	2.93	0.47
2:CY:115:ASN:HD22	3:DZ:190:ALA:C	2.17	0.47
2:CY:180:PRO:HD2	2:CY:189:HIS:HE1	1.77	0.47
2:Ca:46:THR:CG2	3:Db:165:ASP:HA	2.38	0.47
2:Ca:76:GLY:HA2	2:Ca:197:LEU:HD21	1.97	0.47
2:Ce:84:PRO:HG2	2:Ce:88:LEU:HG	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cf:95:HIS:CD2	2:Cf:95:HIS:C	2.92	0.47
2:Cg:153:GLN:CD	3:Dg:55:SER:HB2	2.39	0.47
2:Ch:32:THR:HG23	2:Ch:172:HIS:ND1	2.29	0.47
2:Ch:212:THR:HG23	3:DN:188:LEU:HD22	1.96	0.47
2:Ci:158:PHE:O	2:Ci:159:PRO:C	2.55	0.47
2:Cj:13:ARG:HD3	2:Cj:13:ARG:HA	1.72	0.47
2:Ck:32:THR:HG23	2:Ck:172:HIS:ND1	2.29	0.47
2:Ck:115:ASN:HB2	3:Da:189:THR:HG22	1.96	0.47
2:Cn:84:PRO:HG2	2:Cn:88:LEU:HG	1.97	0.47
2:Cn:95:HIS:CD2	2:Cn:95:HIS:C	2.93	0.47
2:Cp:32:THR:HG23	2:Cp:172:HIS:ND1	2.29	0.47
2:Cq:76:GLY:HA2	2:Cq:197:LEU:HD21	1.97	0.47
2:Cs:74:SER:O	2:Cs:75:HIS:C	2.58	0.47
2:Cw:84:PRO:HG2	2:Cw:88:LEU:HG	1.97	0.47
2:Cx:84:PRO:HG2	2:Cx:88:LEU:HG	1.97	0.47
3:D0:15:MET:CG	3:DZ:25:LEU:HD21	2.44	0.47
3:D2:130:ALA:O	3:D2:131:ALA:HB3	2.13	0.47
3:D3:84:GLU:CD	3:D3:84:GLU:H	2.21	0.47
3:D3:101:ARG:HD2	3:D3:165:ASP:O	2.14	0.47
3:D5:25:LEU:HD21	3:D6:15:MET:HG2	1.97	0.47
3:D7:110:PHE:HB3	3:D7:148:VAL:HG11	1.96	0.47
3:D9:53:PHE:HB3	3:D9:60:PRO:HB2	1.96	0.47
3:DA:53:PHE:HB3	3:DA:60:PRO:HB2	1.96	0.47
3:DB:25:LEU:HD21	3:DC:15:MET:HG2	1.97	0.47
3:DB:53:PHE:HB3	3:DB:60:PRO:CB	2.44	0.47
3:DD:84:GLU:N	3:DD:84:GLU:OE1	2.48	0.47
3:DD:101:ARG:HD2	3:DD:165:ASP:O	2.14	0.47
3:DE:44:ILE:HG23	3:DE:45:ASP:N	2.29	0.47
3:DE:73:LEU:HB3	3:DE:185:VAL:O	2.14	0.47
3:DF:75:GLN:HA	3:DF:183:LEU:O	2.14	0.47
3:DF:101:ARG:HD2	3:DF:165:ASP:O	2.14	0.47
3:DG:44:ILE:HG23	3:DG:45:ASP:N	2.29	0.47
3:DG:84:GLU:N	3:DG:84:GLU:OE1	2.48	0.47
3:DK:103:SER:HB2	3:DK:159:PRO:HA	1.95	0.47
3:DM:160:TYR:HD1	3:DM:161:SER:N	2.13	0.47
3:DN:44:ILE:HG23	3:DN:45:ASP:N	2.30	0.47
3:DN:160:TYR:HD1	3:DN:161:SER:N	2.13	0.47
3:DP:25:LEU:HD21	3:DQ:15:MET:HG2	1.97	0.47
3:DR:84:GLU:H	3:DR:84:GLU:CD	2.21	0.47
3:DS:157:ASN:O	3:DS:159:PRO:HD3	2.14	0.47
3:DV:25:LEU:HD21	3:DW:15:MET:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DW:70:ASP:HA	3:DW:135:ARG:HH12	1.79	0.47
3:DX:73:LEU:HB3	3:DX:185:VAL:O	2.14	0.47
3:DX:110:PHE:HB3	3:DX:148:VAL:HG11	1.96	0.47
3:DZ:44:ILE:HG23	3:DZ:45:ASP:N	2.30	0.47
3:Da:25:LEU:HD21	3:Db:15:MET:HG2	1.97	0.47
3:Da:53:PHE:HB3	3:Da:60:PRO:HB2	1.96	0.47
3:Da:84:GLU:OE1	3:Da:84:GLU:N	2.48	0.47
3:Db:84:GLU:OE1	3:Db:84:GLU:N	2.48	0.47
3:Db:160:TYR:HD1	3:Db:161:SER:N	2.13	0.47
3:Dc:25:LEU:HD21	3:Dd:15:MET:CG	2.45	0.47
3:Dc:25:LEU:HD21	3:Dd:15:MET:HG2	1.97	0.47
3:De:25:LEU:HD21	3:Df:15:MET:HG2	1.97	0.47
3:De:36:VAL:HA	3:De:37:PRO:HD3	1.53	0.47
3:Df:110:PHE:HB3	3:Df:148:VAL:HG11	1.96	0.47
3:Dg:101:ARG:HD2	3:Dg:165:ASP:O	2.14	0.47
3:Dg:160:TYR:HD1	3:Dg:161:SER:N	2.13	0.47
3:Dh:44:ILE:HG23	3:Dh:45:ASP:N	2.30	0.47
3:Dj:25:LEU:HD21	3:Dk:15:MET:HG2	1.97	0.47
3:Dj:44:ILE:HG23	3:Dj:45:ASP:N	2.30	0.47
3:Dk:25:LEU:HD21	3:Dl:15:MET:HG2	1.97	0.47
3:Dk:70:ASP:HA	3:Dk:135:ARG:HH12	1.79	0.47
3:Dn:73:LEU:HB3	3:Dn:185:VAL:O	2.14	0.47
3:Dn:84:GLU:OE1	3:Dn:84:GLU:N	2.48	0.47
3:Do:15:MET:CG	3:Ds:25:LEU:HD21	2.45	0.47
3:Dp:44:ILE:HG23	3:Dp:45:ASP:N	2.30	0.47
3:Dp:157:ASN:O	3:Dp:159:PRO:HD3	2.14	0.47
3:Dq:25:LEU:HD21	3:Dr:15:MET:CG	2.45	0.47
3:Dr:157:ASN:O	3:Dr:159:PRO:HD3	2.14	0.47
3:EA:15:MET:HG2	3:EE:25:LEU:HD21	1.97	0.47
3:EA:110:PHE:HB3	3:EA:148:VAL:HG11	1.96	0.47
3:EC:84:GLU:CD	3:EC:84:GLU:H	2.20	0.47
3:EC:130:ALA:O	3:EC:131:ALA:HB3	2.13	0.47
3:EE:70:ASP:HA	3:EE:135:ARG:HH12	1.79	0.47
4:Fu:30:TYR:N	4:Fu:30:TYR:CD1	2.81	0.47
1:A1:113:THR:O	1:A1:133:LEU:HD12	2.14	0.47
1:A2:17:HIS:O	2:C2:48:SER:HA	2.14	0.47
1:A2:37:PHE:CD1	1:A2:212:ARG:HB2	2.49	0.47
1:A3:87:GLN:O	1:A3:88:PHE:CB	2.62	0.47
1:A3:101:PHE:CD2	1:A3:143:VAL:CG1	2.91	0.47
1:A3:103:TRP:HB2	1:A3:198:THR:HG23	1.96	0.47
1:A4:103:TRP:HB2	1:A4:198:THR:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:187:LEU:HD22	1:A4:188:PRO:N	2.30	0.47
1:A5:105:LYS:HE3	1:A5:139:SER:OG	2.14	0.47
1:A5:128:VAL:HG11	1:A6:89:LYS:HG2	1.96	0.47
1:A5:237:HIS:HB2	3:D6:81:SER:O	2.14	0.47
1:A7:120:GLN:HB2	1:A7:129:ARG:HD3	1.96	0.47
1:A8:4:VAL:HG22	3:D9:151:ASN:O	2.14	0.47
1:A8:237:HIS:HB2	3:D9:81:SER:O	2.14	0.47
1:A9:87:GLN:O	1:A9:88:PHE:CB	2.62	0.47
1:AA:137:GLY:HA2	1:AB:38:PHE:CD1	2.48	0.47
1:AA:187:LEU:HD22	1:AA:188:PRO:N	2.30	0.47
1:AB:113:THR:O	1:AB:133:LEU:HD12	2.14	0.47
1:AB:128:VAL:HG11	1:AC:89:LYS:HG2	1.96	0.47
1:AB:224:ILE:HD11	3:DB:89:TYR:CZ	2.49	0.47
1:AC:46:SER:HB2	1:AC:197:LEU:O	2.15	0.47
1:AC:113:THR:O	1:AC:133:LEU:HD12	2.14	0.47
1:AC:120:GLN:HB2	1:AC:129:ARG:HD3	1.96	0.47
1:AC:224:ILE:HD11	3:DC:89:TYR:CZ	2.49	0.47
1:AD:103:TRP:HB2	1:AD:198:THR:HG23	1.96	0.47
1:AD:128:VAL:HG11	1:AE:89:LYS:HG2	1.96	0.47
1:AE:4:VAL:HG22	3:DE:151:ASN:O	2.14	0.47
1:AE:120:GLN:HB2	1:AE:129:ARG:HD3	1.96	0.47
1:AF:171:TYR:N	1:AF:185:ASN:OD1	2.45	0.47
1:AH:101:PHE:O	1:AH:199:SER:CB	2.62	0.47
1:AH:113:THR:O	1:AH:133:LEU:HD12	2.14	0.47
1:AH:176:ALA:C	1:AH:178:THR:H	2.22	0.47
1:AJ:237:HIS:HB2	3:DJ:81:SER:O	2.14	0.47
1:AK:17:HIS:O	2:CO:48:SER:HA	2.14	0.47
1:AK:38:PHE:CD1	1:AO:137:GLY:HA2	2.49	0.47
1:AK:103:TRP:HB2	1:AK:198:THR:HG23	1.96	0.47
1:AL:4:VAL:HG22	3:DL:151:ASN:O	2.14	0.47
1:AL:101:PHE:O	1:AL:199:SER:CB	2.62	0.47
1:AM:79:PHE:CD1	1:AM:79:PHE:C	2.92	0.47
1:AN:105:LYS:HE3	1:AN:139:SER:OG	2.14	0.47
1:AN:187:LEU:HD22	1:AN:188:PRO:N	2.29	0.47
1:AO:113:THR:O	1:AO:133:LEU:HD12	2.14	0.47
1:AP:113:THR:O	1:AP:133:LEU:HD12	2.14	0.47
1:AP:176:ALA:C	1:AP:178:THR:H	2.22	0.47
1:AR:219:TYR:HD2	3:DR:39:ARG:HB2	1.79	0.47
1:AU:156:PHE:CG	3:DV:25:LEU:HD12	2.49	0.47
1:AV:171:TYR:N	1:AV:185:ASN:OD1	2.45	0.47
1:AW:157:SER:CB	3:DX:24:PRO:HA	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:4:VAL:HG22	3:DY:151:ASN:O	2.14	0.47
1:AX:87:GLN:O	1:AX:88:PHE:CB	2.62	0.47
1:AY:40:VAL:HG22	1:AY:211:TYR:HE1	1.77	0.47
1:AY:170:PHE:CD2	1:AY:222:ARG:CZ	2.87	0.47
1:AY:176:ALA:C	1:AY:178:THR:H	2.22	0.47
1:AY:187:LEU:HD22	1:AY:188:PRO:N	2.30	0.47
1:Aa:17:HIS:O	2:Cb:48:SER:HA	2.14	0.47
1:Ac:17:HIS:O	2:Cb:48:SER:HA	2.14	0.47
1:Ac:42:THR:OG1	1:Ag:121:LEU:HD23	2.13	0.47
1:Ad:101:PHE:O	1:Ad:199:SER:CB	2.62	0.47
1:Ad:121:LEU:HD23	1:Ae:42:THR:OG1	2.13	0.47
1:Ae:4:VAL:HG22	3:Dg:151:ASN:O	2.14	0.47
1:Af:103:TRP:HB2	1:Af:198:THR:HG23	1.96	0.47
1:Af:156:PHE:CG	3:Dh:25:LEU:HD12	2.49	0.47
1:Ag:46:SER:HB2	1:Ag:197:LEU:O	2.15	0.47
1:Ag:103:TRP:HB2	1:Ag:198:THR:HG23	1.96	0.47
1:Ag:113:THR:O	1:Ag:133:LEU:HD12	2.14	0.47
1:Ag:156:PHE:CG	3:Di:25:LEU:HD12	2.49	0.47
1:Ah:101:PHE:CD2	1:Ah:143:VAL:HG11	2.44	0.47
1:Ai:17:HIS:O	2:Cj:48:SER:HA	2.14	0.47
1:Ai:101:PHE:O	1:Ai:199:SER:CB	2.62	0.47
1:Aj:37:PHE:CD1	1:Aj:212:ARG:HB2	2.49	0.47
1:Aj:79:PHE:CD1	1:Aj:79:PHE:C	2.92	0.47
1:Aj:101:PHE:O	1:Aj:199:SER:OG	2.33	0.47
1:Aj:176:ALA:C	1:Aj:178:THR:H	2.22	0.47
1:Ak:105:LYS:HE3	1:Ak:139:SER:OG	2.13	0.47
1:Ak:171:TYR:N	1:Ak:185:ASN:OD1	2.45	0.47
1:Al:120:GLN:HB2	1:Al:129:ARG:HD3	1.96	0.47
1:Al:224:ILE:HD11	3:Dn:89:TYR:CZ	2.49	0.47
1:An:101:PHE:O	1:An:199:SER:CB	2.62	0.47
1:An:113:THR:O	1:An:133:LEU:HD12	2.14	0.47
1:An:187:LEU:HD22	1:An:188:PRO:N	2.29	0.47
1:Ao:43:LEU:N	1:Ao:43:LEU:CD2	2.74	0.47
1:BA:224:ILE:HD11	3:Dp:89:TYR:CZ	2.49	0.47
1:BC:101:PHE:O	1:BC:199:SER:CB	2.62	0.47
1:BD:30:VAL:CG1	1:BD:218:MET:HE3	2.34	0.47
1:BE:101:PHE:CD2	1:BE:143:VAL:HG11	2.44	0.47
1:BE:103:TRP:HB2	1:BE:198:THR:HG23	1.96	0.47
1:BG:156:PHE:CG	3:EC:25:LEU:HD12	2.49	0.47
1:BG:187:LEU:HD22	1:BG:188:PRO:N	2.30	0.47
1:BH:46:SER:HB2	1:BH:197:LEU:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:101:PHE:O	1:BH:199:SER:CB	2.62	0.47
1:BI:87:GLN:O	1:BI:88:PHE:CB	2.62	0.47
1:BI:187:LEU:HD22	1:BI:188:PRO:N	2.30	0.47
2:C0:176:PRO:HD2	2:C0:192:TRP:CZ2	2.49	0.47
2:C1:84:PRO:HG2	2:C1:88:LEU:HG	1.97	0.47
2:C2:76:GLY:HA2	2:C2:197:LEU:HD21	1.97	0.47
2:C2:207:GLN:HB3	3:Dh:196:ILE:CG2	2.45	0.47
2:C3:115:ASN:CA	3:DU:119:LYS:HZ3	2.27	0.47
2:C4:115:ASN:HB2	3:EC:189:THR:HG22	1.96	0.47
2:C5:76:GLY:HA2	2:C5:197:LEU:HD21	1.97	0.47
2:C5:84:PRO:HD3	2:C5:108:TRP:CZ2	2.49	0.47
2:C5:153:GLN:CD	3:D5:55:SER:HB2	2.39	0.47
2:C5:176:PRO:HD2	2:C5:192:TRP:CZ2	2.49	0.47
2:C6:212:THR:HG22	2:C6:213:MET:N	2.30	0.47
2:C8:176:PRO:HD2	2:C8:192:TRP:CZ2	2.49	0.47
2:C8:212:THR:HG22	2:C8:213:MET:N	2.30	0.47
2:C9:167:THR:O	2:C9:168:ASN:HB3	2.13	0.47
2:CA:212:THR:HG23	3:DW:188:LEU:HD22	1.96	0.47
2:CB:84:PRO:HG2	2:CB:88:LEU:HG	1.97	0.47
2:CB:95:HIS:CD2	2:CB:95:HIS:C	2.93	0.47
2:CC:23:ILE:HD12	2:CC:23:ILE:H	1.80	0.47
2:CC:176:PRO:HD2	2:CC:192:TRP:CZ2	2.49	0.47
2:CC:207:GLN:HB3	3:Dn:196:ILE:CG2	2.45	0.47
2:CD:76:GLY:HA2	2:CD:197:LEU:HD21	1.97	0.47
2:CD:84:PRO:HD3	2:CD:108:TRP:CZ2	2.49	0.47
2:CD:115:ASN:HB2	3:D7:189:THR:HG22	1.96	0.47
2:CE:32:THR:HG23	2:CE:172:HIS:ND1	2.29	0.47
2:CE:95:HIS:CD2	2:CE:95:HIS:C	2.92	0.47
2:CE:115:ASN:HB2	3:DF:189:THR:HG22	1.96	0.47
2:CE:212:THR:HG22	2:CE:213:MET:N	2.30	0.47
2:CF:13:ARG:HD3	2:CF:13:ARG:HA	1.72	0.47
2:CF:84:PRO:HG2	2:CF:88:LEU:HG	1.97	0.47
2:CF:212:THR:HG23	3:D6:188:LEU:HD22	1.96	0.47
2:CH:76:GLY:HA2	2:CH:197:LEU:HD21	1.97	0.47
2:CI:74:SER:O	2:CI:75:HIS:C	2.58	0.47
2:CI:212:THR:HG22	2:CI:213:MET:N	2.30	0.47
2:CK:84:PRO:HG2	2:CK:88:LEU:HG	1.97	0.47
2:CK:115:ASN:HB2	3:Db:189:THR:HG22	1.96	0.47
2:CL:84:PRO:HG3	2:CL:108:TRP:CH2	2.50	0.47
2:CL:84:PRO:HG2	2:CL:88:LEU:HG	1.97	0.47
2:CL:176:PRO:HD2	2:CL:192:TRP:CZ2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:83:LEU:HA	2:CM:84:PRO:HA	1.60	0.47
2:CM:207:GLN:HB3	3:Di:196:ILE:CG2	2.45	0.47
2:CN:207:GLN:HB3	3:D2:196:ILE:CG2	2.45	0.47
2:CN:212:THR:HG22	2:CN:213:MET:N	2.30	0.47
2:CO:32:THR:HG23	2:CO:172:HIS:ND1	2.29	0.47
2:CO:76:GLY:HA2	2:CO:197:LEU:HD21	1.97	0.47
2:CO:84:PRO:HD3	2:CO:108:TRP:CZ2	2.49	0.47
2:CO:115:ASN:HB2	3:DP:189:THR:HG22	1.96	0.47
2:CP:76:GLY:HA2	2:CP:197:LEU:HD21	1.97	0.47
2:CP:176:PRO:HD2	2:CP:192:TRP:CZ2	2.49	0.47
2:CP:212:THR:HG22	2:CP:213:MET:N	2.30	0.47
2:CQ:32:THR:HG23	2:CQ:172:HIS:ND1	2.29	0.47
2:CR:153:GLN:CD	3:DR:55:SER:HB2	2.39	0.47
2:CR:212:THR:HG23	3:EE:188:LEU:HD22	1.96	0.47
2:CT:23:ILE:HD12	2:CT:23:ILE:H	1.80	0.47
2:CT:32:THR:HG23	2:CT:172:HIS:ND1	2.29	0.47
2:CT:176:PRO:HD2	2:CT:192:TRP:CZ2	2.49	0.47
2:CV:74:SER:O	2:CV:75:HIS:C	2.58	0.47
2:CY:46:THR:CG2	3:DU:165:ASP:HA	2.38	0.47
2:CY:73:GLN:HA	2:CY:73:GLN:NE2	2.17	0.47
2:CY:84:PRO:HG2	2:CY:88:LEU:HG	1.97	0.47
2:CZ:207:GLN:HB3	3:Dq:196:ILE:CG2	2.45	0.47
2:Ca:176:PRO:HD2	2:Ca:192:TRP:CZ2	2.49	0.47
2:Cb:212:THR:HG23	3:DT:188:LEU:HD22	1.96	0.47
2:Cc:32:THR:HG23	2:Cc:172:HIS:ND1	2.29	0.47
2:Cc:180:PRO:HD2	2:Cc:189:HIS:HE1	1.77	0.47
2:Cc:207:GLN:HB3	3:ED:196:ILE:CG2	2.45	0.47
2:Cc:212:THR:HG23	3:ED:188:LEU:HD22	1.96	0.47
2:Ce:115:ASN:HB2	3:DC:189:THR:HG22	1.96	0.47
2:Ce:212:THR:HG22	2:Ce:213:MET:N	2.30	0.47
2:Cf:74:SER:O	2:Cf:75:HIS:C	2.58	0.47
2:Cg:167:THR:O	2:Cg:168:ASN:HB3	2.13	0.47
2:Cj:84:PRO:HG2	2:Cj:88:LEU:HG	1.97	0.47
2:Cj:207:GLN:HB3	3:DM:196:ILE:CG2	2.45	0.47
2:Ck:84:PRO:HG2	2:Ck:88:LEU:HG	1.97	0.47
2:Ck:167:THR:O	2:Ck:168:ASN:HB3	2.14	0.47
2:Ck:176:PRO:HD2	2:Ck:192:TRP:CZ2	2.49	0.47
2:Ck:207:GLN:HB3	3:Da:196:ILE:CG2	2.45	0.47
2:Ck:212:THR:HG22	2:Ck:213:MET:N	2.30	0.47
2:Cl:207:GLN:HB3	3:D8:196:ILE:CG2	2.45	0.47
2:Cm:76:GLY:HA2	2:Cm:197:LEU:HD21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cn:32:THR:HG23	2:Cn:172:HIS:ND1	2.29	0.47
2:Co:115:ASN:HB2	3:DR:189:THR:HG22	1.96	0.47
2:Co:153:GLN:CD	3:Do:55:SER:HB2	2.39	0.47
2:Co:176:PRO:HD2	2:Co:192:TRP:CZ2	2.49	0.47
2:Co:212:THR:HG22	2:Co:213:MET:N	2.30	0.47
2:Cq:153:GLN:CD	3:Dq:55:SER:HB2	2.39	0.47
2:Cq:212:THR:HG22	2:Cq:213:MET:N	2.30	0.47
2:Cr:115:ASN:HB2	3:DI:189:THR:HG22	1.96	0.47
2:Cr:226:LEU:CD2	3:Ds:126:PRO:HG2	2.36	0.47
2:Cs:153:GLN:CD	3:Ds:55:SER:HB2	2.39	0.47
2:Ct:84:PRO:HG3	2:Ct:108:TRP:CH2	2.50	0.47
2:Cu:115:ASN:HB2	3:D5:189:THR:HG22	1.96	0.47
2:Cv:74:SER:O	2:Cv:75:HIS:C	2.58	0.47
2:Cv:212:THR:HG22	2:Cv:213:MET:N	2.30	0.47
2:Cw:84:PRO:HD2	2:Cw:186:LEU:HD22	1.95	0.47
3:D0:25:LEU:HD21	3:D1:15:MET:CG	2.45	0.47
3:D0:157:ASN:O	3:D0:159:PRO:HD3	2.15	0.47
3:D3:53:PHE:HB3	3:D3:60:PRO:HB2	1.96	0.47
3:D4:53:PHE:HB3	3:D4:60:PRO:HB2	1.96	0.47
3:D4:75:GLN:HA	3:D4:183:LEU:O	2.14	0.47
3:D4:84:GLU:N	3:D4:84:GLU:OE1	2.48	0.47
3:D5:157:ASN:O	3:D5:159:PRO:HD3	2.14	0.47
3:D5:160:TYR:HD1	3:D5:161:SER:N	2.13	0.47
3:D6:36:VAL:HA	3:D6:37:PRO:HD3	1.53	0.47
3:D7:70:ASP:HA	3:D7:135:ARG:HH12	1.79	0.47
3:D7:84:GLU:OE1	3:D7:84:GLU:N	2.48	0.47
3:D8:160:TYR:HD1	3:D8:161:SER:N	2.13	0.47
3:D9:73:LEU:HB3	3:D9:185:VAL:O	2.14	0.47
3:D9:84:GLU:N	3:D9:84:GLU:OE1	2.48	0.47
3:DB:19:PRO:HG3	4:FB:17:ASN:ND2	2.26	0.47
3:DB:157:ASN:O	3:DB:159:PRO:HD3	2.14	0.47
3:DC:25:LEU:HD21	3:DD:15:MET:HG2	1.97	0.47
3:DC:84:GLU:OE1	3:DC:84:GLU:N	2.48	0.47
3:DD:53:PHE:HB3	3:DD:60:PRO:HB2	1.96	0.47
3:DD:62:PHE:CE2	3:DD:204:VAL:HG11	2.50	0.47
3:DD:160:TYR:HD1	3:DD:161:SER:N	2.13	0.47
3:DE:84:GLU:N	3:DE:84:GLU:OE1	2.48	0.47
3:DE:110:PHE:HB3	3:DE:148:VAL:HG11	1.96	0.47
3:DE:117:LYS:O	3:DE:191:LEU:HD22	2.15	0.47
3:DF:103:SER:HB2	3:DF:159:PRO:HA	1.95	0.47
3:DF:122:VAL:HG22	3:DF:123:ALA:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:157:ASN:O	3:DF:159:PRO:HD3	2.14	0.47
3:DG:53:PHE:HB3	3:DG:60:PRO:CB	2.44	0.47
3:DH:25:LEU:HD21	3:DI:15:MET:CG	2.45	0.47
3:DH:160:TYR:HD1	3:DH:161:SER:N	2.13	0.47
3:DJ:84:GLU:N	3:DJ:84:GLU:OE1	2.48	0.47
3:DJ:110:PHE:HB3	3:DJ:148:VAL:HG11	1.97	0.47
3:DJ:117:LYS:O	3:DJ:191:LEU:HD22	2.15	0.47
3:DK:15:MET:HG2	3:DO:25:LEU:HD21	1.97	0.47
3:DK:15:MET:CG	3:DO:25:LEU:HD21	2.45	0.47
3:DL:25:LEU:HD21	3:DM:15:MET:HG2	1.97	0.47
3:DM:25:LEU:HD21	3:DN:15:MET:HG2	1.97	0.47
3:DM:36:VAL:HA	3:DM:37:PRO:HD3	1.53	0.47
3:DM:62:PHE:CE2	3:DM:204:VAL:HG11	2.50	0.47
3:DM:70:ASP:HA	3:DM:135:ARG:HH12	1.79	0.47
3:DM:73:LEU:HB3	3:DM:185:VAL:O	2.14	0.47
3:DM:84:GLU:OE1	3:DM:84:GLU:N	2.48	0.47
3:DN:73:LEU:HB3	3:DN:185:VAL:O	2.14	0.47
3:DO:73:LEU:HB3	3:DO:185:VAL:O	2.14	0.47
3:DO:157:ASN:O	3:DO:159:PRO:HD3	2.14	0.47
3:DP:15:MET:HG2	3:DT:25:LEU:HD21	1.97	0.47
3:DQ:84:GLU:CD	3:DQ:84:GLU:H	2.20	0.47
3:DR:25:LEU:HD21	3:DS:15:MET:HG2	1.97	0.47
3:DR:25:LEU:HD21	3:DS:15:MET:CG	2.45	0.47
3:DR:84:GLU:N	3:DR:84:GLU:OE1	2.48	0.47
3:DS:75:GLN:HA	3:DS:183:LEU:O	2.14	0.47
3:DS:84:GLU:N	3:DS:84:GLU:OE1	2.48	0.47
3:DT:44:ILE:HG23	3:DT:45:ASP:N	2.29	0.47
3:DU:15:MET:CG	3:DY:25:LEU:HD21	2.44	0.47
3:DV:53:PHE:HB3	3:DV:60:PRO:CB	2.44	0.47
3:DV:157:ASN:O	3:DV:159:PRO:HD3	2.14	0.47
3:DV:160:TYR:HD1	3:DV:161:SER:N	2.13	0.47
3:DW:84:GLU:OE1	3:DW:84:GLU:N	2.48	0.47
3:DX:101:ARG:HD2	3:DX:165:ASP:O	2.14	0.47
3:DY:19:PRO:HG3	4:FY:17:ASN:ND2	2.26	0.47
3:DY:84:GLU:OE1	3:DY:84:GLU:N	2.48	0.47
3:DZ:157:ASN:O	3:DZ:159:PRO:HD3	2.14	0.47
3:Db:25:LEU:HD21	3:Dc:15:MET:HG2	1.97	0.47
3:Db:36:VAL:HA	3:Db:37:PRO:HD3	1.53	0.47
3:Dc:62:PHE:CE2	3:Dc:204:VAL:HG11	2.50	0.47
3:Dc:157:ASN:O	3:Dc:159:PRO:HD3	2.14	0.47
3:Dd:70:ASP:HA	3:Dd:135:ARG:HH12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dd:84:GLU:OE1	3:Dd:84:GLU:N	2.48	0.47
3:De:75:GLN:HA	3:De:183:LEU:O	2.14	0.47
3:De:84:GLU:N	3:De:84:GLU:OE1	2.48	0.47
3:De:160:TYR:HD1	3:De:161:SER:N	2.13	0.47
3:Df:53:PHE:HB3	3:Df:60:PRO:HB2	1.96	0.47
3:Dg:75:GLN:HA	3:Dg:183:LEU:O	2.14	0.47
3:Dg:117:LYS:O	3:Dg:191:LEU:HD22	2.15	0.47
3:Dh:25:LEU:HD21	3:Di:15:MET:HG2	1.97	0.47
3:Dh:36:VAL:HA	3:Dh:37:PRO:HD3	1.53	0.47
3:Dh:73:LEU:HB3	3:Dh:185:VAL:O	2.14	0.47
3:Di:53:PHE:HB3	3:Di:60:PRO:CB	2.44	0.47
3:Di:84:GLU:N	3:Di:84:GLU:OE1	2.48	0.47
3:Dj:15:MET:HG2	3:Dn:25:LEU:HD21	1.97	0.47
3:Dj:15:MET:CG	3:Dn:25:LEU:HD21	2.45	0.47
3:Dj:122:VAL:HA	3:Dj:185:VAL:HA	1.97	0.47
3:Dj:157:ASN:O	3:Dj:159:PRO:HD3	2.14	0.47
3:Dl:25:LEU:HD21	3:Dm:15:MET:HG2	1.97	0.47
3:Dl:73:LEU:HB3	3:Dl:185:VAL:O	2.14	0.47
3:Dl:84:GLU:OE1	3:Dl:84:GLU:N	2.48	0.47
3:Dm:70:ASP:HA	3:Dm:135:ARG:HH12	1.79	0.47
3:Dm:117:LYS:O	3:Dm:191:LEU:HD22	2.15	0.47
3:Dm:160:TYR:HD1	3:Dm:161:SER:N	2.13	0.47
3:Do:25:LEU:HD21	3:Dp:15:MET:HG2	1.97	0.47
3:Do:117:LYS:O	3:Do:191:LEU:HD22	2.15	0.47
3:Dp:53:PHE:HB3	3:Dp:60:PRO:CB	2.44	0.47
3:Dp:84:GLU:N	3:Dp:84:GLU:OE1	2.48	0.47
3:Dp:160:TYR:HD1	3:Dp:161:SER:N	2.13	0.47
3:Dq:73:LEU:HB3	3:Dq:185:VAL:O	2.14	0.47
3:Dq:84:GLU:N	3:Dq:84:GLU:OE1	2.48	0.47
3:Dq:101:ARG:HA	3:Dq:160:TYR:CE2	2.48	0.47
3:Eb:25:LEU:HD21	3:Ec:15:MET:CG	2.45	0.47
3:Ec:84:GLU:OE1	3:Ec:84:GLU:N	2.48	0.47
3:Ed:44:ILE:HG23	3:Ed:45:ASP:N	2.30	0.47
3:Ed:157:ASN:O	3:Ed:159:PRO:HD3	2.14	0.47
3:Ee:80:LEU:HD12	3:Ee:80:LEU:H	1.77	0.47
4:Fp:30:TYR:N	4:Fp:30:TYR:CD1	2.81	0.47
1:A0:176:ALA:C	1:A0:178:THR:H	2.22	0.47
1:A1:46:SER:HB2	1:A1:197:LEU:O	2.15	0.47
1:A1:87:GLN:O	1:A1:88:PHE:CB	2.62	0.47
1:A1:101:PHE:O	1:A1:199:SER:CB	2.62	0.47
1:A1:176:ALA:C	1:A1:178:THR:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:101:PHE:CD2	1:A2:143:VAL:HG11	2.44	0.47
1:A6:101:PHE:O	1:A6:199:SER:OG	2.33	0.47
1:A7:84:LEU:CD2	1:A7:209:LEU:HD11	2.45	0.47
1:A7:237:HIS:HB2	3:D8:81:SER:O	2.14	0.47
1:A8:120:GLN:HB2	1:A8:129:ARG:HD3	1.96	0.47
1:A9:30:VAL:CG1	1:A9:218:MET:HE3	2.34	0.47
1:AC:176:ALA:C	1:AC:178:THR:H	2.22	0.47
1:AE:79:PHE:CD1	1:AE:79:PHE:C	2.92	0.47
1:AF:84:LEU:CD2	1:AF:209:LEU:HD11	2.45	0.47
1:AG:128:VAL:HG11	1:AH:89:LYS:HG2	1.96	0.47
1:AH:17:HIS:O	2:CG:48:SER:HA	2.14	0.47
1:AI:84:LEU:CD2	1:AI:209:LEU:HD11	2.45	0.47
1:AI:113:THR:O	1:AI:133:LEU:HD12	2.14	0.47
1:AP:17:HIS:O	2:CT:48:SER:HA	2.14	0.47
1:AU:43:LEU:N	1:AU:43:LEU:CD2	2.74	0.47
1:AV:79:PHE:CD1	1:AV:79:PHE:C	2.92	0.47
1:AX:101:PHE:CD2	1:AX:143:VAL:CG1	2.91	0.47
1:AY:46:SER:HB2	1:AY:197:LEU:O	2.15	0.47
1:AZ:120:GLN:HB2	1:AZ:129:ARG:HD3	1.96	0.47
1:AZ:187:LEU:HD22	1:AZ:188:PRO:N	2.30	0.47
1:Aa:101:PHE:O	1:Aa:199:SER:CB	2.62	0.47
1:Ac:84:LEU:CD2	1:Ac:209:LEU:HD11	2.45	0.47
1:Ac:101:PHE:O	1:Ac:199:SER:OG	2.33	0.47
1:Ac:103:TRP:HB2	1:Ac:198:THR:HG23	1.96	0.47
1:Ad:46:SER:HB2	1:Ad:197:LEU:O	2.15	0.47
1:Ad:187:LEU:HD22	1:Ad:188:PRO:N	2.30	0.47
1:Ae:17:HIS:O	2:Cf:48:SER:HA	2.14	0.47
1:Ae:79:PHE:CD1	1:Ae:79:PHE:C	2.92	0.47
1:Ag:101:PHE:O	1:Ag:199:SER:CB	2.62	0.47
1:Ag:171:TYR:N	1:Ag:185:ASN:OD1	2.45	0.47
1:Ai:105:LYS:HE3	1:Ai:139:SER:OG	2.13	0.47
1:Ai:113:THR:O	1:Ai:133:LEU:HD12	2.14	0.47
1:Ai:187:LEU:HD22	1:Ai:188:PRO:N	2.29	0.47
1:Ai:224:ILE:HD11	3:Dk:89:TYR:CZ	2.49	0.47
1:Aj:87:GLN:O	1:Aj:88:PHE:CB	2.62	0.47
1:Ak:4:VAL:HG22	3:Dm:151:ASN:O	2.14	0.47
1:Ak:137:GLY:HA2	1:Al:38:PHE:CD1	2.49	0.47
1:Am:46:SER:HB2	1:Am:197:LEU:O	2.15	0.47
1:Am:224:ILE:HD11	3:Do:89:TYR:CZ	2.49	0.47
1:An:17:HIS:O	2:Ca:48:SER:HA	2.14	0.47
1:An:120:GLN:HB2	1:An:129:ARG:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:17:HIS:O	2:CR:48:SER:HA	2.14	0.47
1:BA:17:HIS:O	2:Co:48:SER:HA	2.14	0.47
1:BA:43:LEU:N	1:BA:43:LEU:CD2	2.74	0.47
1:BC:156:PHE:CG	3:Dr:25:LEU:HD12	2.49	0.47
1:BC:224:ILE:HD11	3:Dr:89:TYR:CZ	2.49	0.47
1:BF:46:SER:HB2	1:BF:197:LEU:O	2.15	0.47
1:BH:87:GLN:O	1:BH:88:PHE:CB	2.62	0.47
1:BH:120:GLN:HB2	1:BH:129:ARG:HD3	1.96	0.47
2:C0:207:GLN:HB3	3:DQ:196:ILE:CG2	2.45	0.47
2:C2:115:ASN:CA	3:Dh:119:LYS:HZ3	2.28	0.47
2:C3:76:GLY:HA2	2:C3:197:LEU:HD21	1.97	0.47
2:C4:207:GLN:HB3	3:EC:196:ILE:CG2	2.45	0.47
2:C6:76:GLY:HA2	2:C6:197:LEU:HD21	1.97	0.47
2:C8:84:PRO:HG2	2:C8:88:LEU:HG	1.97	0.47
2:C9:115:ASN:HD22	3:DI:190:ALA:C	2.17	0.47
2:C9:212:THR:HG22	2:C9:213:MET:N	2.30	0.47
2:CB:176:PRO:HD2	2:CB:192:TRP:CZ2	2.49	0.47
2:CE:76:GLY:HA2	2:CE:197:LEU:HD21	1.97	0.47
2:CE:134:HIS:HB3	2:CE:135:THR:H	1.46	0.47
2:CI:153:GLN:CD	3:DI:55:SER:HB2	2.39	0.47
2:CJ:83:LEU:HA	2:CJ:84:PRO:HA	1.60	0.47
2:CJ:212:THR:HG22	2:CJ:213:MET:N	2.30	0.47
2:CK:76:GLY:HA2	2:CK:197:LEU:HD21	1.97	0.47
2:CM:84:PRO:HG3	2:CM:108:TRP:CH2	2.50	0.47
2:CN:95:HIS:CD2	2:CN:95:HIS:C	2.93	0.47
2:CO:95:HIS:CD2	2:CO:95:HIS:C	2.93	0.47
2:CP:84:PRO:HG2	2:CP:88:LEU:HG	1.97	0.47
2:CQ:95:HIS:CD2	2:CQ:95:HIS:C	2.93	0.47
2:CQ:212:THR:HG22	2:CQ:213:MET:N	2.30	0.47
2:CR:84:PRO:HD3	2:CR:108:TRP:CZ2	2.49	0.47
2:CS:74:SER:O	2:CS:75:HIS:C	2.58	0.47
2:CS:207:GLN:HB3	3:Dc:196:ILE:CG2	2.45	0.47
2:CU:95:HIS:CD2	2:CU:95:HIS:C	2.93	0.47
2:CU:207:GLN:HB3	3:Dg:196:ILE:CG2	2.45	0.47
2:CW:212:THR:HG22	2:CW:213:MET:N	2.30	0.47
2:CX:212:THR:HG22	2:CX:213:MET:N	2.30	0.47
2:CY:84:PRO:HD3	2:CY:108:TRP:CZ2	2.49	0.47
2:CY:207:GLN:HB3	3:DZ:196:ILE:CG2	2.45	0.47
2:Cb:84:PRO:HG2	2:Cb:88:LEU:HG	1.97	0.47
2:Cc:84:PRO:HD3	2:Cc:108:TRP:CZ2	2.49	0.47
2:Cc:212:THR:HG22	2:Cc:213:MET:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cd:176:PRO:HD2	2:Cd:192:TRP:CZ2	2.49	0.47
2:Cd:207:GLN:HB3	3:D4:196:ILE:CG2	2.45	0.47
2:Ce:153:GLN:CD	3:De:55:SER:HB2	2.39	0.47
2:Cg:84:PRO:HD3	2:Cg:108:TRP:CZ2	2.49	0.47
2:Ch:153:GLN:CD	3:Dh:55:SER:HB2	2.39	0.47
2:Ci:73:GLN:HA	2:Ci:73:GLN:NE2	2.17	0.47
2:Ci:176:PRO:HD2	2:Ci:192:TRP:CZ2	2.49	0.47
2:Ck:84:PRO:HG3	2:Ck:108:TRP:CH2	2.50	0.47
2:Cl:212:THR:HG22	2:Cl:213:MET:N	2.30	0.47
2:Cm:95:HIS:CD2	2:Cm:95:HIS:C	2.93	0.47
2:Cm:115:ASN:HB2	3:DD:189:THR:HG22	1.96	0.47
2:Cn:23:ILE:HD12	2:Cn:23:ILE:H	1.80	0.47
2:Cr:84:PRO:HG2	2:Cr:88:LEU:HG	1.97	0.47
2:Cs:176:PRO:HD2	2:Cs:192:TRP:CZ2	2.49	0.47
2:Cu:13:ARG:HA	2:Cu:13:ARG:HD3	1.72	0.47
2:Cu:49:ASP:HA	2:Cu:50:PRO:HD2	1.80	0.47
3:D0:84:GLU:N	3:D0:84:GLU:OE1	2.48	0.47
3:D2:62:PHE:CE2	3:D2:204:VAL:HG11	2.50	0.47
3:D2:160:TYR:HD1	3:D2:161:SER:N	2.13	0.47
3:D2:220:VAL:HG12	3:D2:221:ASP:O	2.15	0.47
3:D4:62:PHE:CE2	3:D4:204:VAL:HG11	2.50	0.47
3:D5:25:LEU:HD21	3:D6:15:MET:CG	2.45	0.47
3:D5:122:VAL:HA	3:D5:185:VAL:HA	1.97	0.47
3:D7:25:LEU:HD21	3:D8:15:MET:CG	2.45	0.47
3:D8:62:PHE:CE2	3:D8:204:VAL:HG11	2.50	0.47
3:D9:117:LYS:O	3:D9:191:LEU:HD22	2.15	0.47
3:D9:160:TYR:HD1	3:D9:161:SER:N	2.13	0.47
3:DB:25:LEU:HD21	3:DC:15:MET:CG	2.45	0.47
3:DC:44:ILE:HG23	3:DC:45:ASP:N	2.29	0.47
3:DC:117:LYS:O	3:DC:191:LEU:HD22	2.15	0.47
3:DE:122:VAL:HG22	3:DE:123:ALA:N	2.30	0.47
3:DF:15:MET:CG	3:DJ:25:LEU:HD21	2.44	0.47
3:DF:15:MET:HG2	3:DJ:25:LEU:HD21	1.97	0.47
3:DF:25:LEU:HD21	3:DG:15:MET:CG	2.44	0.47
3:DF:62:PHE:CE2	3:DF:204:VAL:HG11	2.50	0.47
3:DG:103:SER:HB2	3:DG:159:PRO:HA	1.95	0.47
3:DK:157:ASN:O	3:DK:159:PRO:HD3	2.14	0.47
3:DL:103:SER:HB3	3:DL:159:PRO:C	2.40	0.47
3:DL:122:VAL:HA	3:DL:185:VAL:HA	1.97	0.47
3:DN:25:LEU:HD21	3:DO:15:MET:CG	2.45	0.47
3:DN:84:GLU:CD	3:DN:84:GLU:H	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DO:84:GLU:CD	3:DO:84:GLU:H	2.21	0.47
3:DP:44:ILE:HG23	3:DP:45:ASP:N	2.30	0.47
3:DQ:44:ILE:HG23	3:DQ:45:ASP:N	2.29	0.47
3:DR:44:ILE:HG23	3:DR:45:ASP:N	2.29	0.47
3:DR:122:VAL:HA	3:DR:185:VAL:HA	1.97	0.47
3:DS:36:VAL:HA	3:DS:37:PRO:HD3	1.53	0.47
3:DS:70:ASP:HA	3:DS:135:ARG:HH12	1.79	0.47
3:DU:15:MET:HG2	3:DY:25:LEU:HD21	1.97	0.47
3:DU:25:LEU:HD21	3:DV:15:MET:CG	2.44	0.47
3:DU:53:PHE:HB3	3:DU:60:PRO:HB2	1.96	0.47
3:DU:220:VAL:HG12	3:DU:221:ASP:O	2.15	0.47
3:DW:122:VAL:HG22	3:DW:123:ALA:N	2.30	0.47
3:DX:160:TYR:HD1	3:DX:161:SER:N	2.13	0.47
3:DZ:75:GLN:HA	3:DZ:183:LEU:O	2.14	0.47
3:Da:220:VAL:HG12	3:Da:221:ASP:O	2.15	0.47
3:Db:73:LEU:HB3	3:Db:185:VAL:O	2.14	0.47
3:Db:103:SER:HB3	3:Db:159:PRO:C	2.40	0.47
3:Dc:160:TYR:HD1	3:Dc:161:SER:N	2.13	0.47
3:Dd:44:ILE:HG23	3:Dd:45:ASP:N	2.30	0.47
3:Dd:157:ASN:O	3:Dd:159:PRO:HD3	2.14	0.47
3:De:15:MET:CG	3:Di:25:LEU:HD21	2.45	0.47
3:Df:44:ILE:HG23	3:Df:45:ASP:N	2.30	0.47
3:Df:220:VAL:HG12	3:Df:221:ASP:O	2.15	0.47
3:Dh:62:PHE:CE2	3:Dh:204:VAL:HG11	2.50	0.47
3:Di:53:PHE:HB3	3:Di:60:PRO:HB2	1.96	0.47
3:Di:62:PHE:CE2	3:Di:204:VAL:HG11	2.50	0.47
3:Di:103:SER:HB3	3:Di:159:PRO:C	2.40	0.47
3:Di:110:PHE:HB3	3:Di:148:VAL:HG11	1.96	0.47
3:Di:157:ASN:O	3:Di:159:PRO:HD3	2.14	0.47
3:Dj:53:PHE:HB3	3:Dj:60:PRO:CB	2.44	0.47
3:Dj:84:GLU:N	3:Dj:84:GLU:OE1	2.48	0.47
3:Dj:122:VAL:HG22	3:Dj:123:ALA:N	2.30	0.47
3:Dk:84:GLU:N	3:Dk:84:GLU:OE1	2.48	0.47
3:DI:25:LEU:HD21	3:Dm:15:MET:CG	2.44	0.47
3:DI:157:ASN:O	3:DI:159:PRO:HD3	2.14	0.47
3:Dn:70:ASP:HA	3:Dn:135:ARG:HH12	1.79	0.47
3:Do:15:MET:HG2	3:Ds:25:LEU:HD21	1.97	0.47
3:Dq:110:PHE:HB3	3:Dq:148:VAL:HG11	1.96	0.47
3:Dr:25:LEU:HD21	3:Ds:15:MET:HG2	1.97	0.47
3:Dr:56:ILE:CG1	3:Dr:74:PHE:CE1	2.98	0.47
3:Ds:70:ASP:HA	3:Ds:135:ARG:HH12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EA:15:MET:CG	3:EE:25:LEU:HD21	2.45	0.47
3:EA:70:ASP:HA	3:EA:135:ARG:HH12	1.79	0.47
3:EA:117:LYS:O	3:EA:191:LEU:HD22	2.15	0.47
3:EB:70:ASP:HA	3:EB:135:ARG:HH12	1.79	0.47
3:EB:108:PHE:O	3:EB:153:ALA:HA	2.15	0.47
3:ED:53:PHE:HB3	3:ED:60:PRO:CB	2.44	0.47
3:ED:62:PHE:CE2	3:ED:204:VAL:HG11	2.50	0.47
3:EE:75:GLN:HA	3:EE:183:LEU:O	2.14	0.47
3:EE:84:GLU:N	3:EE:84:GLU:OE1	2.48	0.47
1:A1:17:HIS:O	2:C1:48:SER:HA	2.15	0.47
1:A1:187:LEU:HD22	1:A1:188:PRO:N	2.30	0.47
1:A2:187:LEU:HD22	1:A2:188:PRO:N	2.30	0.47
1:A3:187:LEU:HD22	1:A3:188:PRO:N	2.30	0.47
1:A4:46:SER:HB2	1:A4:197:LEU:O	2.15	0.47
1:A5:101:PHE:CD2	1:A5:143:VAL:HG11	2.44	0.47
1:A6:84:LEU:CD2	1:A6:209:LEU:HD11	2.45	0.47
1:AA:84:LEU:CD2	1:AA:209:LEU:HD11	2.45	0.47
1:AA:176:ALA:C	1:AA:178:THR:H	2.22	0.47
1:AB:84:LEU:CD2	1:AB:209:LEU:HD11	2.45	0.47
1:AB:101:PHE:CD2	1:AB:143:VAL:HG11	2.44	0.47
1:AC:237:HIS:O	3:DC:171:SER:HB2	2.13	0.47
1:AD:30:VAL:CG1	1:AD:218:MET:HE3	2.34	0.47
1:AD:110:GLY:H	1:AE:242:ASN:ND2	2.12	0.47
1:AD:237:HIS:HB2	3:DD:81:SER:O	2.14	0.47
1:AH:43:LEU:N	1:AH:43:LEU:CD2	2.74	0.47
1:AH:187:LEU:HD22	1:AH:188:PRO:N	2.29	0.47
1:AI:101:PHE:O	1:AI:199:SER:OG	2.33	0.47
1:AI:120:GLN:HB2	1:AI:129:ARG:HD3	1.96	0.47
1:AJ:101:PHE:O	1:AJ:199:SER:OG	2.33	0.47
1:AJ:120:GLN:HB2	1:AJ:129:ARG:HD3	1.96	0.47
1:AM:120:GLN:HB2	1:AM:129:ARG:HD3	1.96	0.47
1:AM:187:LEU:HD22	1:AM:188:PRO:N	2.30	0.47
1:AN:79:PHE:CD1	1:AN:79:PHE:C	2.92	0.47
1:AO:187:LEU:HD22	1:AO:188:PRO:N	2.30	0.47
1:AS:187:LEU:HD22	1:AS:188:PRO:N	2.30	0.47
1:AS:224:ILE:HD11	3:DT:89:TYR:CZ	2.49	0.47
1:AT:101:PHE:CD2	1:AT:143:VAL:HG11	2.44	0.47
1:AT:187:LEU:HD22	1:AT:188:PRO:N	2.29	0.47
1:AU:87:GLN:O	1:AU:88:PHE:CB	2.62	0.47
1:AX:46:SER:HB2	1:AX:197:LEU:O	2.15	0.47
1:Aa:120:GLN:HB2	1:Aa:129:ARG:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:113:THR:O	1:Ab:133:LEU:HD12	2.14	0.47
1:Ac:242:ASN:ND2	1:Ag:110:GLY:H	2.12	0.47
1:Af:101:PHE:O	1:Af:199:SER:OG	2.33	0.47
1:Af:237:HIS:HB2	3:Dh:81:SER:O	2.14	0.47
1:Aj:237:HIS:HB2	3:Dl:81:SER:O	2.14	0.47
1:Ak:170:PHE:CD2	1:Ak:222:ARG:CZ	2.87	0.47
1:Al:84:LEU:CD2	1:Al:209:LEU:HD11	2.45	0.47
1:An:84:LEU:CD2	1:An:209:LEU:HD11	2.45	0.47
1:BA:84:LEU:CD2	1:BA:209:LEU:HD11	2.45	0.47
1:BA:187:LEU:HD22	1:BA:188:PRO:N	2.30	0.47
1:BC:43:LEU:N	1:BC:43:LEU:CD2	2.74	0.47
1:BC:120:GLN:HB2	1:BC:129:ARG:HD3	1.96	0.47
1:BG:176:ALA:C	1:BG:178:THR:H	2.22	0.47
2:C0:75:HIS:NE2	3:D0:59:LYS:HB3	2.30	0.47
2:C1:36:TYR:CE2	2:C1:130:PRO:CG	2.98	0.47
2:C1:207:GLN:HB3	3:DO:196:ILE:CG2	2.45	0.47
2:C2:74:SER:O	2:C2:75:HIS:C	2.58	0.47
2:C2:84:PRO:HG2	2:C2:88:LEU:HG	1.97	0.47
2:C4:212:THR:HG22	2:C4:213:MET:N	2.30	0.47
2:C5:207:GLN:HB3	3:DG:196:ILE:CG2	2.45	0.47
2:C6:74:SER:O	2:C6:75:HIS:C	2.58	0.47
2:C7:88:LEU:C	2:C7:90:LYS:H	2.23	0.47
2:C7:95:HIS:CD2	2:C7:95:HIS:C	2.93	0.47
2:C8:76:GLY:HA2	2:C8:197:LEU:HD21	1.97	0.47
2:C8:88:LEU:C	2:C8:90:LYS:H	2.23	0.47
2:CB:212:THR:HG22	2:CB:213:MET:N	2.30	0.47
2:CC:115:ASN:HB2	3:Dn:189:THR:HG22	1.96	0.47
2:CD:84:PRO:HG3	2:CD:108:TRP:CH2	2.50	0.47
2:CD:167:THR:O	2:CD:168:ASN:HB3	2.13	0.47
2:CG:212:THR:HG22	2:CG:213:MET:N	2.30	0.47
2:CL:207:GLN:HB3	3:Dk:196:ILE:CG2	2.45	0.47
2:CL:212:THR:HG22	2:CL:213:MET:N	2.30	0.47
2:CM:212:THR:HG22	2:CM:213:MET:N	2.30	0.47
2:CN:88:LEU:C	2:CN:90:LYS:H	2.23	0.47
2:CO:75:HIS:NE2	3:DO:59:LYS:HB3	2.30	0.47
2:CP:207:GLN:HB3	3:D1:196:ILE:CG2	2.45	0.47
2:CQ:83:LEU:HA	2:CQ:84:PRO:HA	1.60	0.47
2:CR:23:ILE:HD12	2:CR:23:ILE:H	1.80	0.47
2:CR:84:PRO:HG3	2:CR:108:TRP:CH2	2.50	0.47
2:CR:84:PRO:HG2	2:CR:88:LEU:HG	1.97	0.47
2:CS:212:THR:HG22	2:CS:213:MET:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:75:HIS:NE2	3:DT:59:LYS:HB3	2.30	0.47
2:CT:76:GLY:HA2	2:CT:197:LEU:HD21	1.97	0.47
2:CU:84:PRO:HG3	2:CU:108:TRP:CH2	2.50	0.47
2:CU:84:PRO:HG2	2:CU:88:LEU:HG	1.97	0.47
2:CX:153:GLN:CD	3:DX:55:SER:HB2	2.39	0.47
2:Ca:32:THR:HG23	2:Ca:172:HIS:ND1	2.29	0.47
2:Ca:74:SER:O	2:Ca:75:HIS:C	2.58	0.47
2:Ca:212:THR:HG22	2:Ca:213:MET:N	2.30	0.47
2:Cb:153:GLN:CD	3:Db:55:SER:HB2	2.39	0.47
2:Cc:74:SER:O	2:Cc:75:HIS:C	2.58	0.47
2:Cd:134:HIS:HB3	2:Cd:135:THR:H	1.46	0.47
2:Cf:76:GLY:HA2	2:Cf:197:LEU:HD21	1.97	0.47
2:Cf:84:PRO:HG3	2:Cf:108:TRP:CH2	2.50	0.47
2:Cg:212:THR:HG22	2:Cg:213:MET:N	2.30	0.47
2:Ci:36:TYR:CE2	2:Ci:130:PRO:CG	2.98	0.47
2:Ci:74:SER:O	2:Ci:75:HIS:C	2.58	0.47
2:Ci:76:GLY:HA2	2:Ci:197:LEU:HD21	1.97	0.47
2:Ci:212:THR:HG22	2:Ci:213:MET:N	2.30	0.47
2:Cj:180:PRO:HD2	2:Cj:189:HIS:HE1	1.77	0.47
2:Cn:212:THR:HG22	2:Cn:213:MET:N	2.30	0.47
2:Co:84:PRO:HG2	2:Co:88:LEU:HG	1.97	0.47
2:Co:207:GLN:HB3	3:DR:196:ILE:CG2	2.45	0.47
2:Cp:76:GLY:HA2	2:Cp:197:LEU:HD21	1.97	0.47
2:Cq:74:SER:O	2:Cq:75:HIS:C	2.58	0.47
2:Ct:74:SER:O	2:Ct:75:HIS:C	2.58	0.47
2:Ct:76:GLY:HA2	2:Ct:197:LEU:HD21	1.97	0.47
2:Cv:36:TYR:CE2	2:Cv:130:PRO:CG	2.98	0.47
2:Cv:84:PRO:HG2	2:Cv:88:LEU:HG	1.97	0.47
3:D0:122:VAL:HG22	3:D0:123:ALA:N	2.30	0.47
3:D1:36:VAL:HA	3:D1:37:PRO:HD3	1.53	0.47
3:D1:103:SER:HB3	3:D1:159:PRO:CA	2.35	0.47
3:D1:157:ASN:O	3:D1:159:PRO:HD3	2.14	0.47
3:D2:19:PRO:HG3	4:F2:17:ASN:ND2	2.26	0.47
3:D3:84:GLU:N	3:D3:84:GLU:OE1	2.48	0.47
3:D4:44:ILE:HG23	3:D4:45:ASP:N	2.29	0.47
3:D5:103:SER:HB3	3:D5:159:PRO:C	2.40	0.47
3:D6:25:LEU:HD21	3:D7:15:MET:HG2	1.97	0.47
3:D6:101:ARG:HA	3:D6:160:TYR:CE2	2.48	0.47
3:D6:103:SER:HB3	3:D6:159:PRO:C	2.40	0.47
3:D8:36:VAL:HA	3:D8:37:PRO:HD3	1.53	0.47
3:D8:157:ASN:O	3:D8:159:PRO:HD3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:15:MET:CG	3:Dd:25:LEU:HD21	2.45	0.47
3:D9:56:ILE:CG1	3:D9:74:PHE:CE1	2.98	0.47
3:D9:62:PHE:CE2	3:D9:204:VAL:HG11	2.50	0.47
3:DA:103:SER:HB3	3:DA:159:PRO:C	2.40	0.47
3:DA:122:VAL:HA	3:DA:185:VAL:HA	1.97	0.47
3:DA:157:ASN:O	3:DA:159:PRO:HD3	2.14	0.47
3:DA:160:TYR:HD1	3:DA:161:SER:N	2.13	0.47
3:DA:220:VAL:HG12	3:DA:221:ASP:O	2.15	0.47
3:DC:157:ASN:O	3:DC:159:PRO:HD3	2.14	0.47
3:DD:70:ASP:HA	3:DD:135:ARG:HH12	1.79	0.47
3:DF:160:TYR:HD1	3:DF:161:SER:N	2.13	0.47
3:DG:157:ASN:O	3:DG:159:PRO:HD3	2.14	0.47
3:DI:84:GLU:N	3:DI:84:GLU:OE1	2.48	0.47
3:DI:122:VAL:HA	3:DI:185:VAL:HA	1.97	0.47
3:DJ:160:TYR:HD1	3:DJ:161:SER:N	2.13	0.47
3:DK:25:LEU:HD21	3:DL:15:MET:CG	2.44	0.47
3:DK:56:ILE:CG1	3:DK:74:PHE:CE1	2.98	0.47
3:DL:62:PHE:CE2	3:DL:204:VAL:HG11	2.50	0.47
3:DN:103:SER:HB3	3:DN:159:PRO:CA	2.35	0.47
3:DP:19:PRO:HG3	4:FP:17:ASN:ND2	2.26	0.47
3:DQ:84:GLU:N	3:DQ:84:GLU:OE1	2.48	0.47
3:DQ:160:TYR:HD1	3:DQ:161:SER:N	2.13	0.47
3:DT:117:LYS:O	3:DT:191:LEU:HD22	2.15	0.47
3:DW:25:LEU:HD21	3:DX:15:MET:HG2	1.97	0.47
3:DX:25:LEU:HD21	3:DY:15:MET:HG2	1.97	0.47
3:DX:84:GLU:OE1	3:DX:84:GLU:N	2.48	0.47
3:DX:122:VAL:HA	3:DX:185:VAL:HA	1.97	0.47
3:DX:130:ALA:O	3:DX:131:ALA:HB3	2.13	0.47
3:DY:117:LYS:O	3:DY:191:LEU:HD22	2.15	0.47
3:DY:160:TYR:HD1	3:DY:161:SER:N	2.13	0.47
3:DZ:19:PRO:HG3	4:FZ:17:ASN:ND2	2.26	0.47
3:Da:103:SER:HB3	3:Da:159:PRO:CA	2.35	0.47
3:Db:62:PHE:CE2	3:Db:204:VAL:HG11	2.50	0.47
3:Dc:220:VAL:HG12	3:Dc:221:ASP:O	2.15	0.47
3:De:25:LEU:HD21	3:Df:15:MET:CG	2.45	0.47
3:De:117:LYS:O	3:De:191:LEU:HD22	2.15	0.47
3:Df:36:VAL:HA	3:Df:37:PRO:HD3	1.53	0.47
3:Dg:25:LEU:HD21	3:Dh:15:MET:CG	2.45	0.47
3:Dg:70:ASP:HA	3:Dg:135:ARG:HH12	1.79	0.47
3:Dg:84:GLU:N	3:Dg:84:GLU:OE1	2.48	0.47
3:Dh:220:VAL:HG12	3:Dh:221:ASP:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Di:70:ASP:HA	3:Di:135:ARG:HH12	1.79	0.47
3:Di:220:VAL:HG12	3:Di:221:ASP:O	2.15	0.47
3:Dj:62:PHE:CE2	3:Dj:204:VAL:HG11	2.50	0.47
3:Dk:53:PHE:HB3	3:Dk:60:PRO:HB2	1.96	0.47
3:Dl:160:TYR:HD1	3:Dl:161:SER:N	2.13	0.47
3:Dl:220:VAL:HG12	3:Dl:221:ASP:O	2.15	0.47
3:Dn:160:TYR:HD1	3:Dn:161:SER:N	2.13	0.47
3:Dn:220:VAL:HG12	3:Dn:221:ASP:O	2.15	0.47
3:Do:62:PHE:CE2	3:Do:204:VAL:HG11	2.50	0.47
3:Do:84:GLU:N	3:Do:84:GLU:OE1	2.48	0.47
3:Do:157:ASN:O	3:Do:159:PRO:HD3	2.14	0.47
3:Dp:25:LEU:HD21	3:Dq:15:MET:HG2	1.97	0.47
3:Dp:70:ASP:HA	3:Dp:135:ARG:HH12	1.79	0.47
3:Dq:108:PHE:O	3:Dq:153:ALA:HA	2.15	0.47
3:Ds:122:VAL:HA	3:Ds:185:VAL:HA	1.97	0.47
3:EA:25:LEU:HD21	3:EB:15:MET:HG2	1.97	0.47
3:EA:56:ILE:CG1	3:EA:74:PHE:CE1	2.98	0.47
3:EA:73:LEU:HB3	3:EA:185:VAL:O	2.14	0.47
3:EC:160:TYR:HD1	3:EC:161:SER:N	2.13	0.47
3:EE:56:ILE:CG1	3:EE:74:PHE:CE1	2.98	0.47
4:Fa:30:TYR:N	4:Fa:30:TYR:CD1	2.81	0.47
1:A0:120:GLN:HB2	1:A0:129:ARG:HD3	1.96	0.47
1:A5:46:SER:HB2	1:A5:197:LEU:O	2.15	0.47
1:A5:187:LEU:HD22	1:A5:188:PRO:N	2.30	0.47
1:A6:112:PRO:HB2	3:D8:223:PRO:HB3	1.97	0.47
1:A7:46:SER:HB2	1:A7:197:LEU:O	2.15	0.47
1:A8:170:PHE:CD2	1:A8:222:ARG:CZ	2.87	0.47
1:A9:187:LEU:HD22	1:A9:188:PRO:N	2.30	0.47
1:AC:187:LEU:HD22	1:AC:188:PRO:N	2.30	0.47
1:AE:143:VAL:H	3:DA:14:PHE:CB	2.28	0.47
1:AE:176:ALA:C	1:AE:178:THR:H	2.22	0.47
1:AG:84:LEU:CD2	1:AG:209:LEU:HD11	2.45	0.47
1:AH:220:CYS:HA	1:AH:221:PRO:HD2	1.82	0.47
1:AI:17:HIS:O	2:CH:48:SER:HA	2.14	0.47
1:AI:143:VAL:H	3:DJ:14:PHE:CB	2.28	0.47
1:AK:113:THR:O	1:AK:133:LEU:HD12	2.14	0.47
1:AM:101:PHE:O	1:AM:199:SER:CB	2.62	0.47
1:AO:46:SER:HB2	1:AO:197:LEU:O	2.15	0.47
1:AO:120:GLN:HB2	1:AO:129:ARG:HD3	1.96	0.47
1:AO:139:SER:HA	1:AO:140:PRO:HD3	1.62	0.47
1:AP:46:SER:HB2	1:AP:197:LEU:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:128:VAL:HG11	1:AQ:89:LYS:HG2	1.96	0.47
1:AR:84:LEU:CD2	1:AR:209:LEU:HD11	2.45	0.47
1:AT:128:VAL:HG11	1:AU:89:LYS:HG2	1.96	0.47
1:AV:225:PRO:HA	1:AV:226:PRO:HD2	1.88	0.47
1:AY:17:HIS:O	2:C3:48:SER:HA	2.14	0.47
1:Aa:87:GLN:O	1:Aa:88:PHE:CB	2.62	0.47
1:Ac:137:GLY:HA2	1:Ad:38:PHE:CD1	2.49	0.47
1:Ae:176:ALA:C	1:Ae:178:THR:H	2.22	0.47
1:Af:110:GLY:H	1:Ag:242:ASN:ND2	2.12	0.47
1:Ag:84:LEU:CD2	1:Ag:209:LEU:HD11	2.45	0.47
1:Ah:17:HIS:O	2:Cn:48:SER:HA	2.14	0.47
1:Ak:46:SER:HB2	1:Ak:197:LEU:O	2.15	0.47
1:Ak:120:GLN:HB2	1:Ak:129:ARG:HD3	1.96	0.47
1:Al:170:PHE:CD2	1:Al:222:ARG:CZ	2.87	0.47
1:Am:139:SER:HA	1:Am:140:PRO:HD3	1.62	0.47
1:Am:187:LEU:HD22	1:Am:188:PRO:N	2.30	0.47
1:Ao:84:LEU:CD2	1:Ao:209:LEU:HD11	2.45	0.47
1:Ao:103:TRP:HB2	1:Ao:198:THR:HG23	1.96	0.47
1:BD:84:LEU:CD2	1:BD:209:LEU:HD11	2.45	0.47
1:BF:87:GLN:O	1:BF:88:PHE:CB	2.62	0.47
1:BG:143:VAL:H	3:ED:14:PHE:CB	2.28	0.47
1:BH:103:TRP:HB2	1:BH:198:THR:HG23	1.96	0.47
2:C0:88:LEU:C	2:C0:90:LYS:H	2.23	0.47
2:C0:212:THR:HG23	3:DQ:188:LEU:HD22	1.96	0.47
2:C1:115:ASN:CA	3:DO:119:LYS:HZ3	2.28	0.47
2:C1:115:ASN:HB2	3:DO:189:THR:HG22	1.96	0.47
2:C2:58:LEU:HB3	2:C2:59:SER:H	1.65	0.47
2:C4:76:GLY:HA2	2:C4:197:LEU:HD21	1.97	0.47
2:C4:84:PRO:HG3	2:C4:108:TRP:CH2	2.50	0.47
2:C5:49:ASP:HA	2:C5:50:PRO:HD2	1.80	0.47
2:C6:49:ASP:HA	2:C6:50:PRO:HD2	1.81	0.47
2:C6:88:LEU:C	2:C6:90:LYS:H	2.23	0.47
2:C6:115:ASN:HB2	3:DE:189:THR:HG22	1.96	0.47
2:C7:84:PRO:HG2	2:C7:88:LEU:HG	1.97	0.47
2:C7:207:GLN:HB3	3:Dm:196:ILE:CG2	2.45	0.47
2:C7:212:THR:HG22	2:C7:213:MET:N	2.30	0.47
2:C8:84:PRO:HD3	2:C8:108:TRP:CZ2	2.49	0.47
2:CB:58:LEU:HB3	2:CB:59:SER:H	1.65	0.47
2:CC:36:TYR:CE2	2:CC:130:PRO:CG	2.98	0.47
2:CC:76:GLY:HA2	2:CC:197:LEU:HD21	1.97	0.47
2:CC:212:THR:HG23	3:Dn:188:LEU:HD22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:212:THR:HG22	2:CD:213:MET:N	2.30	0.47
2:CE:212:THR:HG23	3:DF:188:LEU:HD22	1.96	0.47
2:CF:207:GLN:HB3	3:D6:196:ILE:CG2	2.45	0.47
2:CG:207:GLN:HB3	3:EB:196:ILE:CG2	2.45	0.47
2:CH:84:PRO:HD3	2:CH:108:TRP:CZ2	2.49	0.47
2:CH:110:VAL:CG1	2:CH:215:VAL:HA	2.43	0.47
2:CJ:207:GLN:HB3	3:DA:196:ILE:CG2	2.45	0.47
2:CP:74:SER:O	2:CP:75:HIS:C	2.58	0.47
2:CQ:75:HIS:NE2	3:DQ:59:LYS:HB3	2.30	0.47
2:CT:207:GLN:HB3	3:DK:196:ILE:CG2	2.45	0.47
2:CV:176:PRO:HD2	2:CV:192:TRP:CZ2	2.49	0.47
2:CW:74:SER:O	2:CW:75:HIS:C	2.58	0.47
2:CX:84:PRO:HG3	2:CX:108:TRP:CH2	2.50	0.47
2:CX:180:PRO:HD2	2:CX:189:HIS:HE1	1.76	0.47
2:CY:226:LEU:CD2	3:DU:126:PRO:HG2	2.36	0.47
2:Cb:207:GLN:HB3	3:DT:196:ILE:CG2	2.45	0.47
2:Ch:212:THR:HG22	2:Ch:213:MET:N	2.30	0.47
2:Ci:84:PRO:HG2	2:Ci:88:LEU:HG	1.97	0.47
2:Cj:76:GLY:HA2	2:Cj:197:LEU:HD21	1.97	0.47
2:Ck:23:ILE:HD12	2:Ck:23:ILE:H	1.80	0.47
2:Cl:74:SER:O	2:Cl:75:HIS:C	2.58	0.47
2:Cm:207:GLN:HB3	3:DD:196:ILE:CG2	2.45	0.47
2:Cp:95:HIS:CD2	2:Cp:95:HIS:C	2.92	0.47
2:Cq:152:TYR:HB2	2:Cq:197:LEU:HD22	1.98	0.47
2:Cq:207:GLN:HB3	3:DY:196:ILE:CG2	2.45	0.47
2:Cr:75:HIS:NE2	3:Dr:59:LYS:HB3	2.31	0.47
2:Cs:76:GLY:HA2	2:Cs:197:LEU:HD21	1.97	0.47
2:Cs:95:HIS:CD2	2:Cs:95:HIS:C	2.92	0.47
2:Ct:88:LEU:C	2:Ct:90:LYS:H	2.23	0.47
2:Cu:84:PRO:HG2	2:Cu:88:LEU:HG	1.97	0.47
2:Cv:115:ASN:HB2	3:Dd:189:THR:HG22	1.96	0.47
2:Cx:167:THR:O	2:Cx:168:ASN:HB3	2.14	0.47
3:D0:70:ASP:HA	3:D0:135:ARG:HH12	1.79	0.47
3:D1:25:LEU:HD21	3:D2:15:MET:CG	2.45	0.47
3:D1:25:LEU:HD21	3:D2:15:MET:HG2	1.97	0.47
3:D2:70:ASP:HA	3:D2:135:ARG:HH12	1.79	0.47
3:D2:157:ASN:O	3:D2:159:PRO:HD3	2.14	0.47
3:D4:15:MET:CG	3:D8:25:LEU:HD21	2.45	0.47
3:D5:122:VAL:HG22	3:D5:123:ALA:N	2.30	0.47
3:D6:101:ARG:HD2	3:D6:165:ASP:O	2.14	0.47
3:D9:84:GLU:CD	3:D9:84:GLU:H	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:103:SER:HB3	3:D9:159:PRO:C	2.40	0.47
3:D9:157:ASN:O	3:D9:159:PRO:HD3	2.15	0.47
3:DB:108:PHE:O	3:DB:153:ALA:HA	2.15	0.47
3:DB:117:LYS:O	3:DB:191:LEU:HD22	2.15	0.47
3:DB:160:TYR:HD1	3:DB:161:SER:N	2.13	0.47
3:DC:122:VAL:HG22	3:DC:123:ALA:N	2.30	0.47
3:DF:84:GLU:N	3:DF:84:GLU:OE1	2.48	0.47
3:DG:117:LYS:O	3:DG:191:LEU:HD22	2.15	0.47
3:DG:220:VAL:HG12	3:DG:221:ASP:O	2.15	0.47
3:DH:157:ASN:O	3:DH:159:PRO:HD3	2.14	0.47
3:DI:25:LEU:HD21	3:DJ:15:MET:HG2	1.97	0.47
3:DI:62:PHE:CE2	3:DI:204:VAL:HG11	2.50	0.47
3:DJ:122:VAL:HA	3:DJ:185:VAL:HA	1.97	0.47
3:DJ:220:VAL:HG12	3:DJ:221:ASP:O	2.15	0.47
3:DK:84:GLU:OE1	3:DK:84:GLU:N	2.48	0.47
3:DK:220:VAL:HG12	3:DK:221:ASP:O	2.15	0.47
3:DL:122:VAL:HG22	3:DL:123:ALA:N	2.30	0.47
3:DM:25:LEU:HD21	3:DN:15:MET:CG	2.45	0.47
3:DM:157:ASN:O	3:DM:159:PRO:HD3	2.15	0.47
3:DN:84:GLU:OE1	3:DN:84:GLU:N	2.48	0.47
3:DO:160:TYR:HD1	3:DO:161:SER:N	2.13	0.47
3:DQ:53:PHE:HB3	3:DQ:60:PRO:HB2	1.96	0.47
3:DR:101:ARG:HD2	3:DR:165:ASP:O	2.14	0.47
3:DR:103:SER:HB3	3:DR:159:PRO:C	2.40	0.47
3:DS:62:PHE:CE2	3:DS:204:VAL:HG11	2.50	0.47
3:DS:103:SER:HB3	3:DS:159:PRO:C	2.40	0.47
3:DS:117:LYS:O	3:DS:191:LEU:HD22	2.15	0.47
3:DT:53:PHE:HB3	3:DT:60:PRO:HB2	1.96	0.47
3:DU:157:ASN:O	3:DU:159:PRO:HD3	2.15	0.47
3:DW:122:VAL:HA	3:DW:185:VAL:HA	1.97	0.47
3:DX:157:ASN:O	3:DX:159:PRO:HD3	2.14	0.47
3:DZ:108:PHE:O	3:DZ:153:ALA:HA	2.15	0.47
3:DZ:122:VAL:HG22	3:DZ:123:ALA:N	2.30	0.47
3:DZ:122:VAL:HA	3:DZ:185:VAL:HA	1.97	0.47
3:DZ:160:TYR:HD1	3:DZ:161:SER:N	2.13	0.47
3:Db:70:ASP:HA	3:Db:135:ARG:HH12	1.79	0.47
3:Db:122:VAL:HG22	3:Db:123:ALA:N	2.30	0.47
3:Dc:103:SER:HB3	3:Dc:159:PRO:CA	2.35	0.47
3:De:103:SER:HB3	3:De:159:PRO:C	2.40	0.47
3:Df:157:ASN:O	3:Df:159:PRO:HD3	2.14	0.47
3:Dh:110:PHE:HB3	3:Dh:148:VAL:HG11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dh:160:TYR:HD1	3:Dh:161:SER:N	2.13	0.47
3:Di:117:LYS:O	3:Di:191:LEU:HD22	2.15	0.47
3:Dj:103:SER:HB3	3:Dj:159:PRO:C	2.40	0.47
3:Dk:62:PHE:CE2	3:Dk:204:VAL:HG11	2.50	0.47
3:Dk:117:LYS:O	3:Dk:191:LEU:HD22	2.15	0.47
3:Dk:160:TYR:HD1	3:Dk:161:SER:N	2.13	0.47
3:Dm:110:PHE:HB3	3:Dm:148:VAL:HG11	1.96	0.47
3:Dn:103:SER:HB3	3:Dn:159:PRO:C	2.40	0.47
3:Dr:70:ASP:HA	3:Dr:135:ARG:HH12	1.79	0.47
3:Ds:122:VAL:HG22	3:Ds:123:ALA:N	2.30	0.47
3:EA:122:VAL:HA	3:EA:185:VAL:HA	1.97	0.47
3:EC:220:VAL:HG12	3:EC:221:ASP:O	2.15	0.47
3:ED:84:GLU:CD	3:ED:84:GLU:H	2.20	0.47
3:ED:160:TYR:HD1	3:ED:161:SER:N	2.13	0.47
3:EE:19:PRO:HG3	4:Fx:17:ASN:ND2	2.26	0.47
1:A0:89:LYS:HG2	1:AZ:128:VAL:HG11	1.96	0.46
1:A0:101:PHE:O	1:A0:199:SER:OG	2.33	0.46
1:A3:143:VAL:H	3:D5:14:PHE:CB	2.28	0.46
1:A5:17:HIS:O	2:C5:48:SER:HA	2.14	0.46
1:A5:156:PHE:CG	3:D6:25:LEU:HD12	2.49	0.46
1:A7:170:PHE:CD2	1:A7:222:ARG:CZ	2.87	0.46
1:AA:237:HIS:HB2	3:DA:81:SER:O	2.14	0.46
1:AC:103:TRP:HB2	1:AC:198:THR:HG23	1.96	0.46
1:AI:187:LEU:HD22	1:AI:188:PRO:N	2.30	0.46
1:AJ:79:PHE:CD1	1:AJ:79:PHE:C	2.92	0.46
1:AJ:103:TRP:HB2	1:AJ:198:THR:HG23	1.96	0.46
1:AK:84:LEU:CD2	1:AK:209:LEU:HD11	2.45	0.46
1:AP:237:HIS:HB2	3:DP:81:SER:O	2.14	0.46
1:AQ:84:LEU:CD2	1:AQ:209:LEU:HD11	2.45	0.46
1:AQ:120:GLN:HB2	1:AQ:129:ARG:HD3	1.96	0.46
1:AR:37:PHE:CD1	1:AR:212:ARG:HB2	2.49	0.46
1:AR:120:GLN:HB2	1:AR:129:ARG:HD3	1.96	0.46
1:AV:103:TRP:HB2	1:AV:198:THR:HG23	1.96	0.46
1:AW:79:PHE:CD1	1:AW:79:PHE:C	2.92	0.46
1:AX:84:LEU:CD2	1:AX:209:LEU:HD11	2.45	0.46
1:AZ:84:LEU:CD2	1:AZ:209:LEU:HD11	2.45	0.46
1:Ab:84:LEU:CD2	1:Ab:209:LEU:HD11	2.45	0.46
1:Ac:176:ALA:C	1:Ac:178:THR:H	2.22	0.46
1:Af:128:VAL:HG11	1:Ag:89:LYS:HG2	1.96	0.46
1:Ag:87:GLN:O	1:Ag:88:PHE:CB	2.62	0.46
1:Ag:120:GLN:HB2	1:Ag:129:ARG:HD3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:112:PRO:HB2	3:Dn:223:PRO:HB3	1.97	0.46
1:Ak:176:ALA:C	1:Ak:178:THR:H	2.22	0.46
1:Al:17:HIS:O	2:Cm:48:SER:HA	2.14	0.46
1:Al:176:ALA:C	1:Al:178:THR:H	2.22	0.46
1:Am:101:PHE:O	1:Am:199:SER:OG	2.33	0.46
1:BA:113:THR:O	1:BA:133:LEU:HD12	2.14	0.46
1:BB:143:VAL:H	3:Dr:14:PHE:CB	2.28	0.46
1:BC:101:PHE:CD2	1:BC:143:VAL:CG1	2.91	0.46
1:BC:103:TRP:HB2	1:BC:198:THR:HG23	1.96	0.46
1:BE:46:SER:HB2	1:BE:197:LEU:O	2.15	0.46
1:BE:101:PHE:O	1:BE:199:SER:CB	2.62	0.46
1:BG:128:VAL:HG11	1:BH:89:LYS:HG2	1.96	0.46
2:C0:74:SER:O	2:C0:75:HIS:C	2.58	0.46
2:C0:76:GLY:HA2	2:C0:197:LEU:HD21	1.97	0.46
2:C1:88:LEU:C	2:C1:90:LYS:H	2.23	0.46
2:C3:207:GLN:HB3	3:DU:196:ILE:CG2	2.45	0.46
2:C3:216:ALA:HA	2:C3:217:PRO:HD3	1.78	0.46
2:C4:153:GLN:CD	3:D4:55:SER:HB2	2.39	0.46
2:C6:75:HIS:NE2	3:D6:59:LYS:HB3	2.30	0.46
2:C6:84:PRO:HD3	2:C6:108:TRP:CZ2	2.49	0.46
2:C7:75:HIS:NE2	3:D7:59:LYS:HB3	2.30	0.46
2:C9:95:HIS:CD2	2:C9:95:HIS:C	2.92	0.46
2:CA:88:LEU:C	2:CA:90:LYS:H	2.23	0.46
2:CA:207:GLN:HB3	3:DW:196:ILE:CG2	2.45	0.46
2:CC:95:HIS:CD2	2:CC:95:HIS:C	2.92	0.46
2:CG:84:PRO:HG2	2:CG:88:LEU:HG	1.97	0.46
2:CG:88:LEU:C	2:CG:90:LYS:H	2.24	0.46
2:CG:95:HIS:CD2	2:CG:95:HIS:C	2.93	0.46
2:CG:152:TYR:HB2	2:CG:197:LEU:HD22	1.98	0.46
2:CH:216:ALA:HA	2:CH:217:PRO:HD3	1.78	0.46
2:CI:23:ILE:HD12	2:CI:23:ILE:H	1.80	0.46
2:CI:76:GLY:HA2	2:CI:197:LEU:HD21	1.97	0.46
2:CI:84:PRO:HG2	2:CI:88:LEU:HG	1.97	0.46
2:CL:134:HIS:HB3	2:CL:135:THR:H	1.46	0.46
2:CM:176:PRO:HD2	2:CM:192:TRP:CZ2	2.49	0.46
2:CN:23:ILE:HD12	2:CN:23:ILE:H	1.80	0.46
2:CO:23:ILE:HD12	2:CO:23:ILE:H	1.80	0.46
2:CO:129:VAL:HA	2:CO:130:PRO:HD3	1.78	0.46
2:CO:212:THR:HG22	2:CO:213:MET:N	2.30	0.46
2:CQ:212:THR:HG23	3:Dp:188:LEU:HD22	1.96	0.46
2:CR:95:HIS:CD2	2:CR:95:HIS:C	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:207:GLN:HB3	3:EE:196:ILE:CG2	2.45	0.46
2:CS:212:THR:HG23	3:Dc:188:LEU:HD22	1.96	0.46
2:CU:36:TYR:CE2	2:CU:130:PRO:CG	2.98	0.46
2:CU:74:SER:O	2:CU:75:HIS:C	2.58	0.46
2:CV:88:LEU:C	2:CV:90:LYS:H	2.23	0.46
2:CW:23:ILE:HD12	2:CW:23:ILE:H	1.80	0.46
2:CY:84:PRO:HG3	2:CY:108:TRP:CH2	2.50	0.46
2:CZ:23:ILE:HD12	2:CZ:23:ILE:H	1.80	0.46
2:CZ:74:SER:O	2:CZ:75:HIS:C	2.58	0.46
2:CZ:152:TYR:HB2	2:CZ:197:LEU:HD22	1.97	0.46
2:Cb:75:HIS:NE2	3:Db:59:LYS:HB3	2.30	0.46
2:Cb:115:ASN:HB2	3:DT:189:THR:HG22	1.96	0.46
2:Ce:76:GLY:HA2	2:Ce:197:LEU:HD21	1.97	0.46
2:Cf:153:GLN:CD	3:Df:55:SER:HB2	2.39	0.46
2:Cf:207:GLN:HB3	3:DV:196:ILE:CG2	2.45	0.46
2:Ch:207:GLN:HB3	3:DN:196:ILE:CG2	2.45	0.46
2:Ci:88:LEU:C	2:Ci:90:LYS:H	2.23	0.46
2:Cj:74:SER:O	2:Cj:75:HIS:C	2.58	0.46
2:Cl:73:GLN:HA	2:Cl:73:GLN:NE2	2.17	0.46
2:Cl:84:PRO:HG2	2:Cl:88:LEU:HG	1.97	0.46
2:Cm:84:PRO:HG3	2:Cm:108:TRP:CH2	2.50	0.46
2:Cn:84:PRO:HG3	2:Cn:108:TRP:CH2	2.50	0.46
2:Cq:88:LEU:C	2:Cq:90:LYS:H	2.23	0.46
2:Cq:95:HIS:CD2	2:Cq:95:HIS:C	2.92	0.46
2:Cq:115:ASN:HB2	3:DY:189:THR:HG22	1.96	0.46
2:Cs:84:PRO:HG2	2:Cs:88:LEU:HG	1.97	0.46
2:Cs:88:LEU:C	2:Cs:90:LYS:H	2.23	0.46
2:Ct:212:THR:HG22	2:Ct:213:MET:N	2.30	0.46
2:Cu:23:ILE:HD12	2:Cu:23:ILE:H	1.80	0.46
2:Cu:212:THR:HG22	2:Cu:213:MET:N	2.30	0.46
2:Cv:95:HIS:CD2	2:Cv:95:HIS:C	2.93	0.46
3:D1:62:PHE:CE2	3:D1:204:VAL:HG11	2.50	0.46
3:D2:25:LEU:HD21	3:D3:15:MET:CG	2.45	0.46
3:D3:25:LEU:HD21	3:DZ:15:MET:HG2	1.97	0.46
3:D3:25:LEU:HD21	3:DZ:15:MET:CG	2.45	0.46
3:D3:62:PHE:CE2	3:D3:204:VAL:HG11	2.50	0.46
3:D3:103:SER:HB3	3:D3:159:PRO:C	2.40	0.46
3:D3:157:ASN:O	3:D3:159:PRO:HD3	2.14	0.46
3:D4:122:VAL:HG22	3:D4:123:ALA:N	2.30	0.46
3:D9:101:ARG:HD2	3:D9:165:ASP:O	2.14	0.46
3:D9:122:VAL:HG22	3:D9:123:ALA:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:44:ILE:HG23	3:DA:45:ASP:N	2.29	0.46
3:DB:36:VAL:HA	3:DB:37:PRO:HD3	1.53	0.46
3:DH:25:LEU:HD21	3:DI:15:MET:HG2	1.97	0.46
3:DH:110:PHE:HB3	3:DH:148:VAL:HG11	1.97	0.46
3:DJ:36:VAL:HA	3:DJ:37:PRO:HD3	1.53	0.46
3:DK:103:SER:HB3	3:DK:159:PRO:C	2.40	0.46
3:DM:122:VAL:HA	3:DM:185:VAL:HA	1.97	0.46
3:DM:220:VAL:HG12	3:DM:221:ASP:O	2.15	0.46
3:DN:70:ASP:HA	3:DN:135:ARG:HH12	1.79	0.46
3:DN:117:LYS:O	3:DN:191:LEU:HD22	2.15	0.46
3:DO:122:VAL:HA	3:DO:185:VAL:HA	1.97	0.46
3:DQ:101:ARG:HD2	3:DQ:165:ASP:O	2.14	0.46
3:DQ:122:VAL:HA	3:DQ:185:VAL:HA	1.97	0.46
3:DR:53:PHE:HB3	3:DR:60:PRO:HB2	1.96	0.46
3:DR:160:TYR:HD1	3:DR:161:SER:N	2.13	0.46
3:DS:122:VAL:HA	3:DS:185:VAL:HA	1.97	0.46
3:DU:44:ILE:HG23	3:DU:45:ASP:N	2.30	0.46
3:DV:62:PHE:CE2	3:DV:204:VAL:HG11	2.50	0.46
3:DW:62:PHE:CE2	3:DW:204:VAL:HG11	2.50	0.46
3:DX:56:ILE:CG1	3:DX:74:PHE:CE1	2.98	0.46
3:DY:101:ARG:HD2	3:DY:165:ASP:O	2.14	0.46
3:DY:122:VAL:HG22	3:DY:123:ALA:N	2.30	0.46
3:Da:70:ASP:HA	3:Da:135:ARG:HH12	1.79	0.46
3:Db:220:VAL:HG12	3:Db:221:ASP:O	2.15	0.46
3:Dd:110:PHE:HB3	3:Dd:148:VAL:HG11	1.96	0.46
3:Df:122:VAL:HA	3:Df:185:VAL:HA	1.97	0.46
3:Dg:103:SER:HB3	3:Dg:159:PRO:C	2.40	0.46
3:Dg:108:PHE:O	3:Dg:153:ALA:HA	2.15	0.46
3:Dg:122:VAL:HA	3:Dg:185:VAL:HA	1.97	0.46
3:Dh:103:SER:HB3	3:Dh:159:PRO:C	2.40	0.46
3:Di:44:ILE:HG23	3:Di:45:ASP:N	2.29	0.46
3:Dj:70:ASP:HA	3:Dj:135:ARG:HH12	1.79	0.46
3:Dk:122:VAL:HA	3:Dk:185:VAL:HA	1.97	0.46
3:Dl:44:ILE:HG23	3:Dl:45:ASP:N	2.30	0.46
3:Dl:101:ARG:HD2	3:Dl:165:ASP:O	2.14	0.46
3:Dl:110:PHE:HB3	3:Dl:148:VAL:HG11	1.96	0.46
3:Dm:25:LEU:HD21	3:Dn:15:MET:CG	2.45	0.46
3:Dm:25:LEU:HD21	3:Dn:15:MET:HG2	1.97	0.46
3:Dm:44:ILE:HG23	3:Dm:45:ASP:N	2.29	0.46
3:Dm:122:VAL:HA	3:Dm:185:VAL:HA	1.97	0.46
3:Dn:62:PHE:CE2	3:Dn:204:VAL:HG11	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dn:122:VAL:HA	3:Dn:185:VAL:HA	1.97	0.46
3:Dp:25:LEU:HD21	3:Dq:15:MET:CG	2.45	0.46
3:Dp:122:VAL:HG22	3:Dp:123:ALA:N	2.30	0.46
3:Dr:103:SER:HB3	3:Dr:159:PRO:C	2.40	0.46
3:Dr:108:PHE:O	3:Dr:153:ALA:HA	2.16	0.46
3:EC:122:VAL:HG22	3:EC:123:ALA:N	2.30	0.46
3:ED:220:VAL:HG12	3:ED:221:ASP:O	2.15	0.46
3:EE:108:PHE:O	3:EE:153:ALA:HA	2.15	0.46
4:F1:30:TYR:N	4:F1:30:TYR:CD1	2.81	0.46
1:A2:43:LEU:N	1:A2:43:LEU:CD2	2.74	0.46
1:A3:84:LEU:CD2	1:A3:209:LEU:HD11	2.45	0.46
1:A5:84:LEU:CD2	1:A5:209:LEU:HD11	2.45	0.46
1:A6:120:GLN:HB2	1:A6:129:ARG:HD3	1.96	0.46
1:A6:239:PHE:CD1	3:D7:170:TYR:CD2	2.96	0.46
1:A8:103:TRP:HB2	1:A8:198:THR:HG23	1.96	0.46
1:A9:46:SER:HB2	1:A9:197:LEU:O	2.15	0.46
1:A9:84:LEU:CD2	1:A9:209:LEU:HD11	2.45	0.46
1:A9:113:THR:O	1:A9:133:LEU:HD12	2.14	0.46
1:A9:239:PHE:CD1	3:Da:170:TYR:CD2	2.96	0.46
1:AF:17:HIS:O	2:CJ:48:SER:HA	2.14	0.46
1:AI:46:SER:HB2	1:AI:197:LEU:O	2.15	0.46
1:AJ:187:LEU:HD22	1:AJ:188:PRO:N	2.30	0.46
1:AL:176:ALA:C	1:AL:178:THR:H	2.22	0.46
1:AP:30:VAL:CG1	1:AP:218:MET:HE3	2.34	0.46
1:AR:17:HIS:O	2:CQ:48:SER:HA	2.14	0.46
1:AR:176:ALA:C	1:AR:178:THR:H	2.22	0.46
1:AS:120:GLN:HB2	1:AS:129:ARG:HD3	1.96	0.46
1:AT:220:CYS:HA	1:AT:221:PRO:HD2	1.82	0.46
1:AV:176:ALA:C	1:AV:178:THR:H	2.22	0.46
1:AZ:43:LEU:N	1:AZ:43:LEU:CD2	2.74	0.46
1:AZ:46:SER:HB2	1:AZ:197:LEU:O	2.15	0.46
1:Aa:187:LEU:HD22	1:Aa:188:PRO:N	2.30	0.46
1:Ab:79:PHE:CD1	1:Ab:79:PHE:C	2.92	0.46
1:Ad:17:HIS:O	2:Ce:48:SER:HA	2.15	0.46
1:Ah:84:LEU:CD2	1:Ah:209:LEU:HD11	2.45	0.46
1:Ai:46:SER:HB2	1:Ai:197:LEU:O	2.15	0.46
1:Aj:46:SER:HB2	1:Aj:197:LEU:O	2.15	0.46
1:Am:84:LEU:CD2	1:Am:209:LEU:HD11	2.45	0.46
1:Am:157:SER:CB	3:Do:24:PRO:HA	2.36	0.46
1:BD:143:VAL:H	3:Do:14:PHE:CB	2.28	0.46
1:BD:171:TYR:N	1:BD:185:ASN:OD1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:84:LEU:CD2	1:BE:209:LEU:HD11	2.45	0.46
1:BE:120:GLN:HB2	1:BE:129:ARG:HD3	1.96	0.46
1:BG:46:SER:HB2	1:BG:197:LEU:O	2.15	0.46
1:BH:187:LEU:HD22	1:BH:188:PRO:N	2.30	0.46
2:C0:212:THR:HG22	2:C0:213:MET:N	2.30	0.46
2:C1:42:ARG:HA	2:C1:43:PRO:HD2	1.64	0.46
2:C4:84:PRO:HG2	2:C4:88:LEU:HG	1.97	0.46
2:C5:88:LEU:C	2:C5:90:LYS:H	2.24	0.46
2:C5:115:ASN:CA	3:DG:119:LYS:HZ3	2.27	0.46
2:C6:23:ILE:HD12	2:C6:23:ILE:H	1.80	0.46
2:C6:36:TYR:CE2	2:C6:130:PRO:CG	2.98	0.46
2:C7:74:SER:O	2:C7:75:HIS:C	2.58	0.46
2:CA:84:PRO:HG3	2:CA:108:TRP:CH2	2.50	0.46
2:CA:226:LEU:CD2	3:DB:126:PRO:HG2	2.36	0.46
2:CE:74:SER:O	2:CE:75:HIS:C	2.58	0.46
2:CF:212:THR:HG22	2:CF:213:MET:N	2.30	0.46
2:CG:76:GLY:HA2	2:CG:197:LEU:HD21	1.97	0.46
2:CH:46:THR:CG2	3:DI:165:ASP:HA	2.38	0.46
2:CI:46:THR:CG2	3:DJ:165:ASP:HA	2.38	0.46
2:CI:95:HIS:CD2	2:CI:95:HIS:C	2.93	0.46
2:CJ:88:LEU:C	2:CJ:90:LYS:H	2.23	0.46
2:CK:23:ILE:HD12	2:CK:23:ILE:H	1.80	0.46
2:CK:42:ARG:HA	2:CK:43:PRO:HD2	1.64	0.46
2:CK:88:LEU:C	2:CK:90:LYS:H	2.23	0.46
2:CM:84:PRO:HG2	2:CM:88:LEU:HG	1.97	0.46
2:CM:152:TYR:HB2	2:CM:197:LEU:HD22	1.98	0.46
2:CQ:84:PRO:HG3	2:CQ:108:TRP:CH2	2.50	0.46
2:CR:88:LEU:C	2:CR:90:LYS:H	2.23	0.46
2:CS:95:HIS:CD2	2:CS:95:HIS:C	2.93	0.46
2:CT:88:LEU:C	2:CT:90:LYS:H	2.23	0.46
2:CU:152:TYR:HB2	2:CU:197:LEU:HD22	1.98	0.46
2:CV:76:GLY:HA2	2:CV:197:LEU:HD21	1.97	0.46
2:CV:153:GLN:CD	3:DV:55:SER:HB2	2.39	0.46
2:CY:212:THR:HG22	2:CY:213:MET:N	2.30	0.46
2:CZ:76:GLY:HA2	2:CZ:197:LEU:HD21	1.97	0.46
2:CZ:212:THR:HG22	2:CZ:213:MET:N	2.30	0.46
2:Ca:84:PRO:HG2	2:Ca:88:LEU:HG	1.97	0.46
2:Cb:36:TYR:CE2	2:Cb:130:PRO:CG	2.98	0.46
2:Cb:180:PRO:HD2	2:Cb:189:HIS:HE1	1.77	0.46
2:Cc:75:HIS:NE2	3:Dc:59:LYS:HB3	2.30	0.46
2:Cc:88:LEU:C	2:Cc:90:LYS:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cd:152:TYR:HB2	2:Cd:197:LEU:HD22	1.97	0.46
2:Ce:36:TYR:CE2	2:Ce:130:PRO:CG	2.98	0.46
2:Cg:152:TYR:HB2	2:Cg:197:LEU:HD22	1.97	0.46
2:Ch:74:SER:O	2:Ch:75:HIS:C	2.58	0.46
2:Ch:180:PRO:HD2	2:Ch:189:HIS:HE1	1.77	0.46
2:Cj:88:LEU:C	2:Cj:90:LYS:H	2.24	0.46
2:Cl:76:GLY:HA2	2:Cl:197:LEU:HD21	1.97	0.46
2:Cl:88:LEU:C	2:Cl:90:LYS:H	2.24	0.46
2:Cl:167:THR:O	2:Cl:168:ASN:HB3	2.13	0.46
2:Co:84:PRO:HD3	2:Co:108:TRP:CZ2	2.49	0.46
2:Cp:74:SER:O	2:Cp:75:HIS:C	2.58	0.46
2:Cp:152:TYR:HB2	2:Cp:197:LEU:HD22	1.97	0.46
2:Cp:207:GLN:HB3	3:D0:196:ILE:CG2	2.45	0.46
2:Cq:32:THR:HG23	2:Cq:172:HIS:ND1	2.29	0.46
2:Cr:76:GLY:HA2	2:Cr:197:LEU:HD21	1.97	0.46
2:Cs:152:TYR:HB2	2:Cs:197:LEU:HD22	1.97	0.46
2:Cs:212:THR:HG23	3:EA:188:LEU:HD22	1.96	0.46
2:Cu:74:SER:O	2:Cu:75:HIS:C	2.58	0.46
2:Cu:152:TYR:HB2	2:Cu:197:LEU:HD22	1.97	0.46
2:Cv:84:PRO:HG3	2:Cv:108:TRP:CH2	2.50	0.46
2:Cv:207:GLN:HB3	3:Dd:196:ILE:CG2	2.45	0.46
2:Cw:36:TYR:CE2	2:Cw:130:PRO:CG	2.98	0.46
3:D1:108:PHE:O	3:D1:153:ALA:HA	2.15	0.46
3:D4:15:MET:HG2	3:D8:25:LEU:HD21	1.97	0.46
3:D4:220:VAL:HG12	3:D4:221:ASP:O	2.15	0.46
3:D5:84:GLU:OE1	3:D5:84:GLU:N	2.48	0.46
3:D7:160:TYR:HD1	3:D7:161:SER:N	2.13	0.46
3:D8:84:GLU:OE1	3:D8:84:GLU:N	2.48	0.46
3:DA:25:LEU:HD21	3:DB:15:MET:HG2	1.97	0.46
3:DB:122:VAL:HA	3:DB:185:VAL:HA	1.97	0.46
3:DE:62:PHE:CE2	3:DE:204:VAL:HG11	2.50	0.46
3:DE:122:VAL:HA	3:DE:185:VAL:HA	1.97	0.46
3:DF:117:LYS:O	3:DF:191:LEU:HD22	2.15	0.46
3:DG:108:PHE:O	3:DG:153:ALA:HA	2.15	0.46
3:DH:62:PHE:CE2	3:DH:204:VAL:HG11	2.50	0.46
3:DH:220:VAL:HG12	3:DH:221:ASP:O	2.15	0.46
3:DL:84:GLU:CD	3:DL:84:GLU:H	2.21	0.46
3:DL:84:GLU:OE1	3:DL:84:GLU:N	2.48	0.46
3:DM:117:LYS:O	3:DM:191:LEU:HD22	2.15	0.46
3:DN:157:ASN:O	3:DN:159:PRO:HD3	2.14	0.46
3:DP:25:LEU:HD21	3:DQ:15:MET:CG	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DP:62:PHE:CE2	3:DP:204:VAL:HG11	2.50	0.46
3:DP:101:ARG:HD2	3:DP:165:ASP:O	2.14	0.46
3:DR:157:ASN:O	3:DR:159:PRO:HD3	2.14	0.46
3:DV:220:VAL:HG12	3:DV:221:ASP:O	2.15	0.46
3:DX:44:ILE:HG23	3:DX:45:ASP:N	2.29	0.46
3:DX:70:ASP:HA	3:DX:135:ARG:HH12	1.79	0.46
3:DX:108:PHE:O	3:DX:153:ALA:HA	2.15	0.46
3:DY:108:PHE:O	3:DY:153:ALA:HA	2.16	0.46
3:DZ:84:GLU:N	3:DZ:84:GLU:OE1	2.48	0.46
3:DZ:220:VAL:HG12	3:DZ:221:ASP:O	2.15	0.46
3:Db:44:ILE:HG23	3:Db:45:ASP:N	2.30	0.46
3:Dc:122:VAL:HA	3:Dc:185:VAL:HA	1.97	0.46
3:Dd:73:LEU:HB3	3:Dd:185:VAL:O	2.14	0.46
3:Dd:103:SER:HB3	3:Dd:159:PRO:C	2.40	0.46
3:De:56:ILE:CG1	3:De:74:PHE:CE1	2.98	0.46
3:De:62:PHE:CE2	3:De:204:VAL:HG11	2.50	0.46
3:Df:108:PHE:O	3:Df:153:ALA:HA	2.16	0.46
3:Dg:53:PHE:HB3	3:Dg:60:PRO:CB	2.44	0.46
3:Dg:220:VAL:HG12	3:Dg:221:ASP:O	2.15	0.46
3:Dl:103:SER:HB3	3:Dl:159:PRO:CA	2.35	0.46
3:Dl:117:LYS:O	3:Dl:191:LEU:HD22	2.15	0.46
3:Dm:84:GLU:OE1	3:Dm:84:GLU:N	2.48	0.46
3:Dn:108:PHE:O	3:Dn:153:ALA:HA	2.15	0.46
3:Dn:122:VAL:HG22	3:Dn:123:ALA:N	2.30	0.46
3:Do:220:VAL:HG12	3:Do:221:ASP:O	2.15	0.46
3:Dq:117:LYS:O	3:Dq:191:LEU:HD22	2.15	0.46
3:Dq:122:VAL:HG22	3:Dq:123:ALA:N	2.30	0.46
3:Dq:122:VAL:HA	3:Dq:185:VAL:HA	1.97	0.46
3:Dq:220:VAL:HG12	3:Dq:221:ASP:O	2.15	0.46
3:Dr:122:VAL:HA	3:Dr:185:VAL:HA	1.97	0.46
3:Ds:36:VAL:HA	3:Ds:37:PRO:HD3	1.53	0.46
3:Ds:80:LEU:HD12	3:Ds:80:LEU:H	1.77	0.46
3:Ds:108:PHE:O	3:Ds:153:ALA:HA	2.15	0.46
3:EA:53:PHE:HB3	3:EA:60:PRO:HB2	1.96	0.46
3:EA:84:GLU:OE1	3:EA:84:GLU:N	2.48	0.46
3:EA:220:VAL:HG12	3:EA:221:ASP:O	2.15	0.46
3:EB:84:GLU:OE1	3:EB:84:GLU:N	2.48	0.46
3:EB:220:VAL:HG12	3:EB:221:ASP:O	2.15	0.46
3:EC:117:LYS:O	3:EC:191:LEU:HD22	2.15	0.46
3:ED:25:LEU:HD21	3:EE:15:MET:CG	2.45	0.46
3:ED:70:ASP:HA	3:ED:135:ARG:HH12	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Fj:30:TYR:N	4:Fj:30:TYR:CD1	2.81	0.46
1:A2:46:SER:HB2	1:A2:197:LEU:O	2.15	0.46
1:A3:17:HIS:O	2:C8:48:SER:HA	2.14	0.46
1:A3:43:LEU:N	1:A3:43:LEU:CD2	2.74	0.46
1:A6:46:SER:HB2	1:A6:197:LEU:O	2.15	0.46
1:A7:17:HIS:O	2:C7:48:SER:HA	2.14	0.46
1:A7:87:GLN:O	1:A7:88:PHE:CB	2.62	0.46
1:A8:46:SER:HB2	1:A8:197:LEU:O	2.15	0.46
1:AD:17:HIS:O	2:CC:48:SER:HA	2.15	0.46
1:AD:171:TYR:N	1:AD:185:ASN:OD1	2.45	0.46
1:AE:84:LEU:CD2	1:AE:209:LEU:HD11	2.45	0.46
1:AF:43:LEU:N	1:AF:43:LEU:CD2	2.74	0.46
1:AH:40:VAL:HG22	1:AH:211:TYR:HE1	1.77	0.46
1:AK:110:GLY:H	1:AL:242:ASN:ND2	2.12	0.46
1:AK:242:ASN:ND2	1:AO:110:GLY:H	2.12	0.46
1:AL:17:HIS:O	2:CK:48:SER:HA	2.14	0.46
1:AL:84:LEU:CD2	1:AL:209:LEU:HD11	2.45	0.46
1:AM:84:LEU:CD2	1:AM:209:LEU:HD11	2.45	0.46
1:AT:112:PRO:HB2	3:DV:223:PRO:HB3	1.98	0.46
1:AU:27:HIS:O	1:AU:33:LEU:HD21	2.13	0.46
1:AU:46:SER:HB2	1:AU:197:LEU:O	2.15	0.46
1:AW:84:LEU:CD2	1:AW:209:LEU:HD11	2.45	0.46
1:AZ:101:PHE:O	1:AZ:199:SER:OG	2.33	0.46
1:Aa:46:SER:HB2	1:Aa:197:LEU:O	2.15	0.46
1:Aa:171:TYR:N	1:Aa:185:ASN:OD1	2.45	0.46
1:Ac:46:SER:HB2	1:Ac:197:LEU:O	2.15	0.46
1:Ac:171:TYR:N	1:Ac:185:ASN:OD1	2.45	0.46
1:Ad:87:GLN:O	1:Ad:88:PHE:CB	2.62	0.46
1:An:112:PRO:HB2	3:Dc:223:PRO:HB3	1.98	0.46
1:BA:30:VAL:CG1	1:BA:218:MET:HE3	2.34	0.46
1:BA:46:SER:HB2	1:BA:197:LEU:O	2.15	0.46
1:BA:103:TRP:HB2	1:BA:198:THR:HG23	1.96	0.46
1:BA:237:HIS:HB2	3:Dp:81:SER:O	2.14	0.46
1:BG:43:LEU:N	1:BG:43:LEU:CD2	2.74	0.46
1:BG:112:PRO:HB2	3:ED:223:PRO:HB3	1.98	0.46
2:C1:23:ILE:HD12	2:C1:23:ILE:H	1.80	0.46
2:C2:36:TYR:CE2	2:C2:130:PRO:CG	2.98	0.46
2:C4:13:ARG:HD3	2:C4:13:ARG:HA	1.72	0.46
2:C4:88:LEU:C	2:C4:90:LYS:H	2.23	0.46
2:C6:212:THR:HG23	3:DE:188:LEU:HD22	1.96	0.46
2:C8:74:SER:O	2:C8:75:HIS:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:95:HIS:CD2	2:C8:95:HIS:C	2.93	0.46
2:C9:129:VAL:HA	2:C9:130:PRO:HD3	1.78	0.46
2:CA:75:HIS:NE2	3:DA:59:LYS:HB3	2.31	0.46
2:CA:84:PRO:HD3	2:CA:108:TRP:CZ2	2.49	0.46
2:CA:152:TYR:HB2	2:CA:197:LEU:HD22	1.97	0.46
2:CB:207:GLN:HB3	3:Df:196:ILE:CG2	2.45	0.46
2:CC:84:PRO:HG2	2:CC:88:LEU:HG	1.97	0.46
2:CE:88:LEU:C	2:CE:90:LYS:H	2.23	0.46
2:CJ:84:PRO:HG2	2:CJ:88:LEU:HG	1.97	0.46
2:CK:212:THR:HG22	2:CK:213:MET:N	2.30	0.46
2:CM:74:SER:O	2:CM:75:HIS:C	2.58	0.46
2:CO:207:GLN:HB3	3:DP:196:ILE:CG2	2.45	0.46
2:CS:115:ASN:HB2	3:Dc:189:THR:HG22	1.96	0.46
2:CT:13:ARG:HA	2:CT:13:ARG:HD3	1.72	0.46
2:CT:84:PRO:HG2	2:CT:88:LEU:HG	1.97	0.46
2:CU:115:ASN:HB2	3:Dg:189:THR:HG22	1.97	0.46
2:CU:167:THR:O	2:CU:168:ASN:HB3	2.13	0.46
2:CW:207:GLN:HB3	3:DJ:196:ILE:CG2	2.45	0.46
2:CY:115:ASN:HB2	3:DZ:189:THR:HG22	1.96	0.46
2:Cb:212:THR:HG22	2:Cb:213:MET:N	2.30	0.46
2:Cb:226:LEU:CD2	3:Dc:126:PRO:HG2	2.36	0.46
2:Cc:95:HIS:CD2	2:Cc:95:HIS:C	2.93	0.46
2:Cc:75:HIS:NE2	3:De:59:LYS:HB3	2.31	0.46
2:Cf:84:PRO:HD3	2:Cf:108:TRP:CZ2	2.49	0.46
2:Cf:88:LEU:C	2:Cf:90:LYS:H	2.23	0.46
2:Cg:115:ASN:HD22	3:D3:190:ALA:C	2.17	0.46
2:Ch:75:HIS:NE2	3:Dh:59:LYS:HB3	2.30	0.46
2:Cm:74:SER:O	2:Cm:75:HIS:C	2.58	0.46
2:Cn:88:LEU:C	2:Cn:90:LYS:H	2.23	0.46
2:Cn:152:TYR:HB2	2:Cn:197:LEU:HD22	1.97	0.46
2:Co:76:GLY:HA2	2:Co:197:LEU:HD21	1.97	0.46
2:Cp:115:ASN:HB2	3:D0:189:THR:HG22	1.96	0.46
2:Cr:207:GLN:HB3	3:DI:196:ILE:CG2	2.45	0.46
2:Cr:209:VAL:N	2:Cr:210:PRO:CD	2.68	0.46
2:Cr:212:THR:HG22	2:Cr:213:MET:N	2.30	0.46
2:Cs:49:ASP:HA	2:Cs:50:PRO:HD2	1.80	0.46
2:Cs:167:THR:O	2:Cs:168:ASN:HB3	2.13	0.46
2:Cs:212:THR:HG22	2:Cs:213:MET:N	2.30	0.46
2:Cu:95:HIS:CD2	2:Cu:95:HIS:C	2.93	0.46
2:Cu:207:GLN:HB3	3:D5:196:ILE:CG2	2.45	0.46
2:Cv:49:ASP:HA	2:Cv:50:PRO:HD2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cw:88:LEU:C	2:Cw:90:LYS:H	2.23	0.46
2:Cw:180:PRO:HD2	2:Cw:189:HIS:HE1	1.77	0.46
2:Cx:76:GLY:HA2	2:Cx:197:LEU:HD21	1.97	0.46
3:D1:110:PHE:HB3	3:D1:148:VAL:HG11	1.96	0.46
3:D4:25:LEU:HD21	3:D5:15:MET:CG	2.44	0.46
3:D4:157:ASN:O	3:D4:159:PRO:HD3	2.14	0.46
3:D5:108:PHE:O	3:D5:153:ALA:HA	2.15	0.46
3:D6:108:PHE:O	3:D6:153:ALA:HA	2.15	0.46
3:D6:122:VAL:HA	3:D6:185:VAL:HA	1.97	0.46
3:D6:122:VAL:HG22	3:D6:123:ALA:N	2.30	0.46
3:D7:25:LEU:HD21	3:D8:15:MET:HG2	1.97	0.46
3:D8:44:ILE:HG23	3:D8:45:ASP:N	2.30	0.46
3:D8:108:PHE:O	3:D8:153:ALA:HA	2.15	0.46
3:D8:122:VAL:HA	3:D8:185:VAL:HA	1.97	0.46
3:D8:220:VAL:HG12	3:D8:221:ASP:O	2.15	0.46
3:DA:62:PHE:CE2	3:DA:204:VAL:HG11	2.50	0.46
3:DB:84:GLU:OE1	3:DB:84:GLU:N	2.48	0.46
3:DB:103:SER:HB3	3:DB:159:PRO:C	2.40	0.46
3:DG:160:TYR:HD1	3:DG:161:SER:N	2.13	0.46
3:DH:56:ILE:CG1	3:DH:74:PHE:CE1	2.98	0.46
3:DH:84:GLU:H	3:DH:84:GLU:CD	2.21	0.46
3:DJ:62:PHE:CE2	3:DJ:204:VAL:HG11	2.50	0.46
3:DO:44:ILE:HG23	3:DO:45:ASP:N	2.29	0.46
3:DO:62:PHE:CE2	3:DO:204:VAL:HG11	2.50	0.46
3:DP:84:GLU:N	3:DP:84:GLU:OE1	2.48	0.46
3:DQ:62:PHE:CE2	3:DQ:204:VAL:HG11	2.50	0.46
3:DQ:122:VAL:HG22	3:DQ:123:ALA:N	2.30	0.46
3:DS:108:PHE:O	3:DS:153:ALA:HA	2.16	0.46
3:DT:220:VAL:HG12	3:DT:221:ASP:O	2.15	0.46
3:DV:36:VAL:HA	3:DV:37:PRO:HD3	1.53	0.46
3:DY:110:PHE:HB3	3:DY:148:VAL:HG11	1.97	0.46
3:Da:122:VAL:HG22	3:Da:123:ALA:N	2.30	0.46
3:Db:122:VAL:HA	3:Db:185:VAL:HA	1.97	0.46
3:Dc:84:GLU:CD	3:Dc:84:GLU:H	2.21	0.46
3:Dc:117:LYS:O	3:Dc:191:LEU:HD22	2.15	0.46
3:Dd:117:LYS:O	3:Dd:191:LEU:HD22	2.15	0.46
3:De:80:LEU:HD12	3:De:80:LEU:H	1.77	0.46
3:De:122:VAL:HG22	3:De:123:ALA:N	2.30	0.46
3:Df:62:PHE:CE2	3:Df:204:VAL:HG11	2.50	0.46
3:Df:84:GLU:N	3:Df:84:GLU:OE1	2.48	0.46
3:Df:103:SER:HB3	3:Df:159:PRO:C	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dg:110:PHE:HB3	3:Dg:148:VAL:HG11	1.96	0.46
3:Dj:108:PHE:O	3:Dj:153:ALA:HA	2.15	0.46
3:Dk:44:ILE:HG23	3:Dk:45:ASP:N	2.29	0.46
3:Dk:220:VAL:HG12	3:Dk:221:ASP:O	2.15	0.46
3:Dl:70:ASP:HA	3:Dl:135:ARG:HH12	1.79	0.46
3:Dm:120:PHE:HD2	3:Dm:146:TRP:CH2	2.34	0.46
3:Ds:19:PRO:HG3	4:Fs:17:ASN:ND2	2.26	0.46
3:Ds:160:TYR:HD1	3:Ds:161:SER:N	2.13	0.46
3:ED:25:LEU:HD21	3:EE:15:MET:HG2	1.97	0.46
3:ED:103:SER:HB3	3:ED:159:PRO:C	2.40	0.46
3:EE:122:VAL:HA	3:EE:185:VAL:HA	1.97	0.46
3:EE:160:TYR:HD1	3:EE:161:SER:N	2.13	0.46
1:A0:84:LEU:CD2	1:A0:209:LEU:HD11	2.45	0.46
1:A0:242:ASN:ND2	1:AZ:110:GLY:H	2.12	0.46
1:A2:171:TYR:N	1:A2:185:ASN:OD1	2.44	0.46
1:A6:128:VAL:HG11	1:A7:89:LYS:HG2	1.96	0.46
1:AA:17:HIS:O	2:CE:48:SER:HA	2.14	0.46
1:AB:103:TRP:HB2	1:AB:198:THR:HG23	1.96	0.46
1:AB:187:LEU:HD22	1:AB:188:PRO:N	2.30	0.46
1:AD:46:SER:HB2	1:AD:197:LEU:O	2.15	0.46
1:AD:84:LEU:CD2	1:AD:209:LEU:HD11	2.45	0.46
1:AE:17:HIS:O	2:CD:48:SER:HA	2.14	0.46
1:AI:87:GLN:O	1:AI:88:PHE:CB	2.62	0.46
1:AL:46:SER:HB2	1:AL:197:LEU:O	2.15	0.46
1:AL:143:VAL:H	3:DM:14:PHE:CB	2.28	0.46
1:AO:45:LEU:HB2	1:AO:202:HIS:HA	1.98	0.46
1:AO:87:GLN:O	1:AO:88:PHE:CB	2.62	0.46
1:AO:165:ARG:HG2	2:CO:180:PRO:O	2.16	0.46
1:AQ:143:VAL:H	3:DR:14:PHE:CB	2.28	0.46
1:AR:46:SER:HB2	1:AR:197:LEU:O	2.15	0.46
1:AS:46:SER:HB2	1:AS:197:LEU:O	2.15	0.46
1:AS:84:LEU:CD2	1:AS:209:LEU:HD11	2.45	0.46
1:AT:45:LEU:HB2	1:AT:202:HIS:HA	1.98	0.46
1:AT:110:GLY:H	1:AU:242:ASN:ND2	2.12	0.46
1:AW:171:TYR:N	1:AW:185:ASN:OD1	2.45	0.46
1:AZ:17:HIS:O	2:CZ:48:SER:HA	2.14	0.46
1:AZ:112:PRO:HB2	3:D1:223:PRO:HB3	1.98	0.46
1:Aa:84:LEU:CD2	1:Aa:209:LEU:HD11	2.45	0.46
1:Ac:120:GLN:HB2	1:Ac:129:ARG:HD3	1.97	0.46
1:Ai:137:GLY:HA2	1:Aj:38:PHE:CD1	2.49	0.46
1:Ak:84:LEU:CD2	1:Ak:209:LEU:HD11	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Al:46:SER:HB2	1:Al:197:LEU:O	2.15	0.46
1:Al:187:LEU:HD22	1:Al:188:PRO:N	2.29	0.46
1:BA:171:TYR:N	1:BA:185:ASN:OD1	2.45	0.46
1:BB:84:LEU:CD2	1:BB:209:LEU:HD11	2.45	0.46
1:BC:45:LEU:HB2	1:BC:202:HIS:HA	1.98	0.46
1:BC:112:PRO:HB2	3:Ds:223:PRO:HB3	1.97	0.46
1:BD:46:SER:HB2	1:BD:197:LEU:O	2.15	0.46
1:BD:113:THR:O	1:BD:133:LEU:HD12	2.14	0.46
1:BG:103:TRP:HB2	1:BG:198:THR:HG23	1.96	0.46
2:C0:84:PRO:HG2	2:C0:88:LEU:HG	1.97	0.46
2:C0:95:HIS:CD2	2:C0:95:HIS:C	2.93	0.46
2:C3:95:HIS:CD2	2:C3:95:HIS:C	2.93	0.46
2:C3:212:THR:HG22	2:C3:213:MET:N	2.30	0.46
2:C7:115:ASN:HB2	3:Dm:189:THR:HG22	1.96	0.46
2:C8:42:ARG:HA	2:C8:43:PRO:HD2	1.65	0.46
2:C8:115:ASN:HD22	3:D9:190:ALA:C	2.17	0.46
2:C9:84:PRO:HD3	2:C9:108:TRP:CZ2	2.49	0.46
2:CB:180:PRO:HD2	2:CB:189:HIS:HE1	1.76	0.46
2:CC:88:LEU:C	2:CC:90:LYS:H	2.23	0.46
2:CD:152:TYR:HB2	2:CD:197:LEU:HD22	1.97	0.46
2:CD:207:GLN:HB3	3:D7:196:ILE:CG2	2.45	0.46
2:CG:74:SER:O	2:CG:75:HIS:C	2.58	0.46
2:CH:75:HIS:NE2	3:DH:59:LYS:HB3	2.31	0.46
2:CK:75:HIS:NE2	3:DK:59:LYS:HB3	2.31	0.46
2:CL:75:HIS:NE2	3:DL:59:LYS:HB3	2.30	0.46
2:CM:88:LEU:C	2:CM:90:LYS:H	2.23	0.46
2:CN:152:TYR:HB2	2:CN:197:LEU:HD22	1.98	0.46
2:CO:74:SER:O	2:CO:75:HIS:C	2.58	0.46
2:CO:84:PRO:HG2	2:CO:88:LEU:HG	1.97	0.46
2:CO:212:THR:HG23	3:DP:188:LEU:HD22	1.96	0.46
2:CS:76:GLY:HA2	2:CS:197:LEU:HD21	1.97	0.46
2:CT:95:HIS:CD2	2:CT:95:HIS:C	2.93	0.46
2:CY:74:SER:O	2:CY:75:HIS:C	2.58	0.46
2:Cb:84:PRO:HG3	2:Cb:108:TRP:CH2	2.50	0.46
2:Cc:115:ASN:HD22	3:ED:190:ALA:C	2.17	0.46
2:Cd:75:HIS:NE2	3:Dd:59:LYS:HB3	2.30	0.46
2:Cd:84:PRO:HG2	2:Cd:88:LEU:HG	1.97	0.46
2:Cd:95:HIS:CD2	2:Cd:95:HIS:C	2.92	0.46
2:Cf:75:HIS:NE2	3:Df:59:LYS:HB3	2.30	0.46
2:Cg:180:PRO:HD2	2:Cg:189:HIS:HE1	1.77	0.46
2:Ch:36:TYR:CE2	2:Ch:130:PRO:CG	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:115:ASN:HB2	3:DN:189:THR:HG22	1.96	0.46
2:Ch:152:TYR:HB2	2:Ch:197:LEU:HD22	1.97	0.46
2:Ci:129:VAL:HA	2:Ci:130:PRO:HD3	1.78	0.46
2:Cj:212:THR:HG22	2:Cj:213:MET:N	2.30	0.46
2:Cl:83:LEU:HA	2:Cl:84:PRO:HA	1.60	0.46
2:Cq:84:PRO:HG2	2:Cq:88:LEU:HG	1.97	0.46
2:Cr:74:SER:O	2:Cr:75:HIS:C	2.58	0.46
2:Ct:46:THR:CG2	3:EB:165:ASP:HA	2.38	0.46
2:Cu:76:GLY:HA2	2:Cu:197:LEU:HD21	1.97	0.46
2:Cu:84:PRO:HD3	2:Cu:108:TRP:CZ2	2.49	0.46
2:Cv:23:ILE:HD12	2:Cv:23:ILE:H	1.80	0.46
2:Cv:42:ARG:HA	2:Cv:43:PRO:HD2	1.64	0.46
2:Cv:152:TYR:HB2	2:Cv:197:LEU:HD22	1.98	0.46
2:Cw:207:GLN:HB3	3:DS:196:ILE:CG2	2.45	0.46
3:D0:25:LEU:HD21	3:D1:15:MET:HG2	1.97	0.46
3:D2:103:SER:HB3	3:D2:159:PRO:C	2.40	0.46
3:D2:117:LYS:O	3:D2:191:LEU:HD22	2.15	0.46
3:D2:122:VAL:HA	3:D2:185:VAL:HA	1.97	0.46
3:D3:110:PHE:HB3	3:D3:148:VAL:HG11	1.96	0.46
3:D5:117:LYS:O	3:D5:191:LEU:HD22	2.15	0.46
3:D6:44:ILE:HG23	3:D6:45:ASP:N	2.29	0.46
3:D7:103:SER:HB3	3:D7:159:PRO:C	2.40	0.46
3:D7:220:VAL:HG12	3:D7:221:ASP:O	2.15	0.46
3:DH:84:GLU:N	3:DH:84:GLU:OE1	2.48	0.46
3:DH:108:PHE:O	3:DH:153:ALA:HA	2.15	0.46
3:DI:44:ILE:HG23	3:DI:45:ASP:N	2.30	0.46
3:DI:160:TYR:HD1	3:DI:161:SER:N	2.13	0.46
3:DJ:103:SER:HB3	3:DJ:159:PRO:C	2.40	0.46
3:DK:62:PHE:CE2	3:DK:204:VAL:HG11	2.50	0.46
3:DK:120:PHE:HD2	3:DK:146:TRP:CH2	2.34	0.46
3:DL:220:VAL:HG12	3:DL:221:ASP:O	2.15	0.46
3:DN:25:LEU:HD21	3:DO:15:MET:HG2	1.97	0.46
3:DN:62:PHE:CE2	3:DN:204:VAL:HG11	2.50	0.46
3:DP:70:ASP:HA	3:DP:135:ARG:HH12	1.79	0.46
3:DP:220:VAL:HG12	3:DP:221:ASP:O	2.15	0.46
3:DS:160:TYR:HD1	3:DS:161:SER:N	2.13	0.46
3:DU:160:TYR:HD1	3:DU:161:SER:N	2.13	0.46
3:DV:84:GLU:H	3:DV:84:GLU:CD	2.21	0.46
3:DV:117:LYS:O	3:DV:191:LEU:HD22	2.15	0.46
3:DW:120:PHE:HD2	3:DW:146:TRP:CH2	2.34	0.46
3:DX:36:VAL:HA	3:DX:37:PRO:HD3	1.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DY:62:PHE:CE2	3:DY:204:VAL:HG11	2.50	0.46
3:Dc:44:ILE:HG23	3:Dc:45:ASP:N	2.29	0.46
3:Dc:84:GLU:OE1	3:Dc:84:GLU:N	2.48	0.46
3:Dc:103:SER:HB3	3:Dc:159:PRO:C	2.40	0.46
3:Dc:120:PHE:HD2	3:Dc:146:TRP:CH2	2.34	0.46
3:Dd:108:PHE:O	3:Dd:153:ALA:HA	2.15	0.46
3:Dd:220:VAL:HG12	3:Dd:221:ASP:O	2.15	0.46
3:De:108:PHE:O	3:De:153:ALA:HA	2.15	0.46
3:Dg:62:PHE:CE2	3:Dg:204:VAL:HG11	2.50	0.46
3:Di:122:VAL:HG22	3:Di:123:ALA:N	2.30	0.46
3:Dj:117:LYS:O	3:Dj:191:LEU:HD22	2.15	0.46
3:Dj:160:TYR:HD1	3:Dj:161:SER:N	2.13	0.46
3:Dk:25:LEU:HD21	3:Dl:15:MET:CG	2.45	0.46
3:Dm:103:SER:HB2	3:Dm:159:PRO:HA	1.95	0.46
3:Do:122:VAL:HA	3:Do:185:VAL:HA	1.97	0.46
3:Dp:220:VAL:HG12	3:Dp:221:ASP:O	2.15	0.46
3:Dq:160:TYR:HD1	3:Dq:161:SER:N	2.13	0.46
3:Dr:62:PHE:CE2	3:Dr:204:VAL:HG11	2.50	0.46
3:EA:103:SER:HB3	3:EA:159:PRO:C	2.40	0.46
3:EA:108:PHE:O	3:EA:153:ALA:HA	2.16	0.46
3:EB:103:SER:HB3	3:EB:159:PRO:C	2.40	0.46
3:EB:122:VAL:HA	3:EB:185:VAL:HA	1.97	0.46
3:EB:160:TYR:HD1	3:EB:161:SER:N	2.13	0.46
3:EC:62:PHE:CE2	3:EC:204:VAL:HG11	2.50	0.46
3:ED:36:VAL:HA	3:ED:37:PRO:HD3	1.53	0.46
1:A1:139:SER:HA	1:A1:140:PRO:HD3	1.62	0.46
1:A1:143:VAL:H	3:D3:14:PHE:CB	2.28	0.46
1:A3:46:SER:HB2	1:A3:197:LEU:O	2.15	0.46
1:A4:84:LEU:CD2	1:A4:209:LEU:HD11	2.45	0.46
1:A7:103:TRP:HB2	1:A7:198:THR:HG23	1.96	0.46
1:A8:84:LEU:CD2	1:A8:209:LEU:HD11	2.45	0.46
1:AA:45:LEU:HB2	1:AA:202:HIS:HA	1.98	0.46
1:AB:17:HIS:O	2:CA:48:SER:HA	2.14	0.46
1:AB:43:LEU:N	1:AB:43:LEU:CD2	2.74	0.46
1:AB:46:SER:HB2	1:AB:197:LEU:O	2.15	0.46
1:AH:45:LEU:HB2	1:AH:202:HIS:HA	1.98	0.46
1:AJ:46:SER:HB2	1:AJ:197:LEU:O	2.15	0.46
1:AL:101:PHE:O	1:AL:199:SER:OG	2.33	0.46
1:AM:225:PRO:HA	1:AM:226:PRO:HD2	1.88	0.46
1:AO:17:HIS:O	2:CN:48:SER:HA	2.14	0.46
1:AO:112:PRO:HB2	3:DK:223:PRO:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:146:ILE:HD13	1:AO:146:ILE:HG21	1.74	0.46
1:AQ:46:SER:HB2	1:AQ:197:LEU:O	2.15	0.46
1:AQ:110:GLY:H	1:AR:242:ASN:ND2	2.12	0.46
1:AQ:112:PRO:HB2	3:DR:223:PRO:HB3	1.98	0.46
1:AR:165:ARG:HG2	2:CR:180:PRO:O	2.16	0.46
1:AV:17:HIS:O	2:CV:48:SER:HA	2.15	0.46
1:AV:120:GLN:HB2	1:AV:129:ARG:HD3	1.96	0.46
1:AV:143:VAL:H	3:DX:14:PHE:CB	2.28	0.46
1:AX:101:PHE:O	1:AX:199:SER:OG	2.33	0.46
1:AX:112:PRO:HB2	3:DU:223:PRO:HB3	1.98	0.46
1:AZ:165:ARG:HG2	2:C0:180:PRO:O	2.16	0.46
1:Aa:176:ALA:C	1:Aa:178:THR:H	2.22	0.46
1:Ac:187:LEU:HD22	1:Ac:188:PRO:N	2.30	0.46
1:Ad:84:LEU:CD2	1:Ad:209:LEU:HD11	2.45	0.46
1:Ae:187:LEU:HD22	1:Ae:188:PRO:N	2.30	0.46
1:Af:101:PHE:CD2	1:Af:143:VAL:CG1	2.91	0.46
1:Ah:187:LEU:HD22	1:Ah:188:PRO:N	2.30	0.46
1:Aj:110:GLY:H	1:Ak:242:ASN:ND2	2.12	0.46
1:An:46:SER:HB2	1:An:197:LEU:O	2.15	0.46
1:An:143:VAL:H	3:Dc:14:PHE:CB	2.28	0.46
1:An:171:TYR:N	1:An:185:ASN:OD1	2.45	0.46
1:Ao:165:ARG:HG2	2:CS:180:PRO:O	2.16	0.46
1:BB:43:LEU:N	1:BB:43:LEU:CD2	2.74	0.46
1:BC:30:VAL:CG1	1:BC:218:MET:HE3	2.34	0.46
1:BF:176:ALA:C	1:BF:178:THR:H	2.22	0.46
1:BI:45:LEU:HB2	1:BI:202:HIS:HA	1.98	0.46
1:BI:46:SER:HB2	1:BI:197:LEU:O	2.15	0.46
2:C0:180:PRO:HD2	2:C0:189:HIS:HE1	1.77	0.46
2:C1:75:HIS:NE2	3:D1:59:LYS:HB3	2.31	0.46
2:C3:84:PRO:HG2	2:C3:88:LEU:HG	1.97	0.46
2:C4:74:SER:O	2:C4:75:HIS:C	2.58	0.46
2:C6:152:TYR:HB2	2:C6:197:LEU:HD22	1.98	0.46
2:C8:36:TYR:CE2	2:C8:130:PRO:CG	2.98	0.46
2:C8:115:ASN:HB2	3:D9:189:THR:HG22	1.96	0.46
2:C9:76:GLY:HA2	2:C9:197:LEU:HD21	1.97	0.46
2:CB:88:LEU:C	2:CB:90:LYS:H	2.23	0.46
2:CB:152:TYR:HB2	2:CB:197:LEU:HD22	1.97	0.46
2:CC:75:HIS:NE2	3:DC:59:LYS:HB3	2.31	0.46
2:CC:212:THR:HG22	2:CC:213:MET:N	2.30	0.46
2:CE:152:TYR:HB2	2:CE:197:LEU:HD22	1.98	0.46
2:CF:84:PRO:HD3	2:CF:108:TRP:CZ2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:115:ASN:HB2	3:D6:189:THR:HG22	1.96	0.46
2:CI:207:GLN:HB3	3:DX:196:ILE:CG2	2.45	0.46
2:CJ:84:PRO:HG3	2:CJ:108:TRP:CH2	2.50	0.46
2:CJ:216:ALA:HA	2:CJ:217:PRO:HD3	1.78	0.46
2:CO:84:PRO:HG3	2:CO:108:TRP:CH2	2.50	0.46
2:CR:152:TYR:HB2	2:CR:197:LEU:HD22	1.98	0.46
2:CR:216:ALA:HA	2:CR:217:PRO:HD3	1.78	0.46
2:CT:65:LYS:CB	3:DK:135:ARG:HH21	2.29	0.46
2:CT:180:PRO:HD2	2:CT:189:HIS:HE1	1.76	0.46
2:CU:88:LEU:C	2:CU:90:LYS:H	2.24	0.46
2:CV:207:GLN:HB3	3:DB:196:ILE:CG2	2.45	0.46
2:CW:134:HIS:HB3	2:CW:135:THR:H	1.46	0.46
2:CX:207:GLN:HB3	3:Dr:196:ILE:CG2	2.45	0.46
2:CY:88:LEU:C	2:CY:90:LYS:H	2.23	0.46
2:CZ:75:HIS:NE2	3:DZ:59:LYS:HB3	2.30	0.46
2:Cd:74:SER:O	2:Cd:75:HIS:C	2.58	0.46
2:Ce:42:ARG:HA	2:Ce:43:PRO:HD2	1.64	0.46
2:Cg:84:PRO:HG2	2:Cg:88:LEU:HG	1.97	0.46
2:Ck:74:SER:O	2:Ck:75:HIS:C	2.58	0.46
2:Ck:75:HIS:NE2	3:Dk:59:LYS:HB3	2.30	0.46
2:Ck:76:GLY:HA2	2:Ck:197:LEU:HD21	1.97	0.46
2:Cl:75:HIS:NE2	3:Dl:59:LYS:HB3	2.30	0.46
2:Cn:76:GLY:HA2	2:Cn:197:LEU:HD21	1.97	0.46
2:Cq:75:HIS:NE2	3:Dq:59:LYS:HB3	2.30	0.46
2:Cu:180:PRO:HD2	2:Cu:189:HIS:HE1	1.77	0.46
2:Cx:75:HIS:NE2	3:EE:59:LYS:HB3	2.30	0.46
3:D1:122:VAL:HG22	3:D1:123:ALA:N	2.30	0.46
3:D2:122:VAL:HG22	3:D2:123:ALA:N	2.30	0.46
3:D4:103:SER:HB3	3:D4:159:PRO:C	2.40	0.46
3:D4:108:PHE:O	3:D4:153:ALA:HA	2.15	0.46
3:D4:120:PHE:HD2	3:D4:146:TRP:CH2	2.34	0.46
3:D5:120:PHE:HD2	3:D5:146:TRP:CH2	2.34	0.46
3:D6:62:PHE:CE2	3:D6:204:VAL:HG11	2.50	0.46
3:D6:110:PHE:HB3	3:D6:148:VAL:HG11	1.96	0.46
3:DB:62:PHE:CE2	3:DB:204:VAL:HG11	2.50	0.46
3:DE:220:VAL:HG12	3:DE:221:ASP:O	2.15	0.46
3:DF:108:PHE:O	3:DF:153:ALA:HA	2.15	0.46
3:DF:120:PHE:HD2	3:DF:146:TRP:CH2	2.34	0.46
3:DF:220:VAL:HG12	3:DF:221:ASP:O	2.15	0.46
3:DH:70:ASP:HA	3:DH:135:ARG:HH12	1.79	0.46
3:DH:117:LYS:O	3:DH:191:LEU:HD22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:122:VAL:HG22	3:DJ:123:ALA:N	2.30	0.46
3:DK:19:PRO:HG3	4:FK:17:ASN:ND2	2.26	0.46
3:DK:122:VAL:HA	3:DK:185:VAL:HA	1.97	0.46
3:DM:120:PHE:HD2	3:DM:146:TRP:CH2	2.34	0.46
3:DN:103:SER:HB3	3:DN:159:PRO:C	2.40	0.46
3:DN:103:SER:HB2	3:DN:159:PRO:HA	1.95	0.46
3:DP:117:LYS:O	3:DP:191:LEU:HD22	2.15	0.46
3:DP:122:VAL:HG22	3:DP:123:ALA:N	2.30	0.46
3:DQ:103:SER:HB3	3:DQ:159:PRO:C	2.40	0.46
3:DS:122:VAL:HG22	3:DS:123:ALA:N	2.30	0.46
3:DT:103:SER:HB3	3:DT:159:PRO:C	2.40	0.46
3:DT:122:VAL:HG22	3:DT:123:ALA:N	2.30	0.46
3:DV:25:LEU:HD21	3:DW:15:MET:HG2	1.97	0.46
3:DV:70:ASP:HA	3:DV:135:ARG:HH12	1.79	0.46
3:DW:160:TYR:HD1	3:DW:161:SER:N	2.13	0.46
3:DY:122:VAL:HA	3:DY:185:VAL:HA	1.97	0.46
3:DY:220:VAL:HG12	3:DY:221:ASP:O	2.15	0.46
3:DZ:62:PHE:CE2	3:DZ:204:VAL:HG11	2.50	0.46
3:DZ:103:SER:HB3	3:DZ:159:PRO:C	2.40	0.46
3:DZ:117:LYS:O	3:DZ:191:LEU:HD22	2.15	0.46
3:Db:117:LYS:O	3:Db:191:LEU:HD22	2.15	0.46
3:Dc:108:PHE:O	3:Dc:153:ALA:HA	2.15	0.46
3:Dd:120:PHE:HD2	3:Dd:146:TRP:CH2	2.34	0.46
3:De:103:SER:HB2	3:De:159:PRO:HA	1.95	0.46
3:Df:56:ILE:CG1	3:Df:74:PHE:CE1	2.98	0.46
3:Dg:120:PHE:HD2	3:Dg:146:TRP:CH2	2.34	0.46
3:Dh:84:GLU:N	3:Dh:84:GLU:OE1	2.48	0.46
3:Dh:120:PHE:HD2	3:Dh:146:TRP:CH2	2.34	0.46
3:Di:108:PHE:O	3:Di:153:ALA:HA	2.16	0.46
3:Di:120:PHE:HD2	3:Di:146:TRP:CH2	2.34	0.46
3:Di:160:TYR:HD1	3:Di:161:SER:N	2.13	0.46
3:Dj:120:PHE:HD2	3:Dj:146:TRP:CH2	2.34	0.46
3:Dn:117:LYS:O	3:Dn:191:LEU:HD22	2.15	0.46
3:Do:103:SER:HB2	3:Do:159:PRO:HA	1.95	0.46
3:Do:122:VAL:HG22	3:Do:123:ALA:N	2.30	0.46
3:EA:103:SER:HB2	3:EA:159:PRO:HA	1.95	0.46
3:EE:220:VAL:HG12	3:EE:221:ASP:O	2.15	0.46
1:A0:103:TRP:HB2	1:A0:198:THR:HG23	1.96	0.46
1:A3:137:GLY:HA2	1:A4:38:PHE:CD1	2.49	0.46
1:A4:43:LEU:N	1:A4:43:LEU:CD2	2.74	0.46
1:A5:225:PRO:HA	1:A5:226:PRO:HD2	1.87	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:165:ARG:HG2	2:C7:180:PRO:O	2.16	0.46
1:A7:187:LEU:HD22	1:A7:188:PRO:N	2.30	0.46
1:A9:120:GLN:HB2	1:A9:129:ARG:HD3	1.96	0.46
1:A9:137:GLY:HA2	1:An:38:PHE:CD1	2.49	0.46
1:AB:165:ARG:HG2	2:CB:180:PRO:O	2.16	0.46
1:AC:84:LEU:CD2	1:AC:209:LEU:HD11	2.45	0.46
1:AD:184:TYR:CE2	2:CD:139:ALA:HB2	2.51	0.46
1:AE:165:ARG:HG2	2:CE:180:PRO:O	2.16	0.46
1:AG:45:LEU:HB2	1:AG:202:HIS:HA	1.98	0.46
1:AH:84:LEU:CD2	1:AH:209:LEU:HD11	2.45	0.46
1:AH:101:PHE:CD2	1:AH:143:VAL:CG1	2.91	0.46
1:AI:171:TYR:N	1:AI:185:ASN:OD1	2.45	0.46
1:AJ:101:PHE:CD2	1:AJ:143:VAL:CG1	2.91	0.46
1:AL:139:SER:HA	1:AL:140:PRO:HD3	1.62	0.46
1:AM:101:PHE:O	1:AM:199:SER:OG	2.33	0.46
1:AQ:187:LEU:HD22	1:AQ:188:PRO:N	2.30	0.46
1:AR:220:CYS:HA	1:AR:221:PRO:HD2	1.82	0.46
1:AS:225:PRO:HA	1:AS:226:PRO:HD2	1.88	0.46
1:AT:84:LEU:CD2	1:AT:209:LEU:HD11	2.45	0.46
1:AU:101:PHE:CD2	1:AU:143:VAL:CG1	2.91	0.46
1:AV:84:LEU:CD2	1:AV:209:LEU:HD11	2.45	0.46
1:AX:165:ARG:HG2	2:CY:180:PRO:O	2.16	0.46
1:AX:219:TYR:HD2	3:DY:39:ARG:HB2	1.79	0.46
1:AY:45:LEU:HB2	1:AY:202:HIS:HA	1.98	0.46
1:Aa:137:GLY:HA2	1:Ab:38:PHE:CD1	2.48	0.46
1:Ab:46:SER:HB2	1:Ab:197:LEU:O	2.15	0.46
1:Ac:143:VAL:H	3:Df:14:PHE:CB	2.28	0.46
1:Ae:46:SER:HB2	1:Ae:197:LEU:O	2.15	0.46
1:Af:84:LEU:CD2	1:Af:209:LEU:HD11	2.45	0.46
1:Ai:45:LEU:HB2	1:Ai:202:HIS:HA	1.98	0.46
1:Ak:45:LEU:HB2	1:Ak:202:HIS:HA	1.98	0.46
1:Ak:187:LEU:HD22	1:Ak:188:PRO:N	2.30	0.46
1:BA:225:PRO:HA	1:BA:226:PRO:HD2	1.88	0.46
1:BF:112:PRO:HB2	3:EC:223:PRO:HB3	1.98	0.46
1:BG:84:LEU:CD2	1:BG:209:LEU:HD11	2.45	0.46
1:BG:101:PHE:O	1:BG:199:SER:OG	2.33	0.46
1:BH:139:SER:HA	1:BH:140:PRO:HD3	1.62	0.46
1:BI:101:PHE:CD2	1:BI:143:VAL:CG1	2.90	0.46
1:BI:143:VAL:H	3:EA:14:PHE:CB	2.28	0.46
1:BI:157:SER:CB	3:EE:24:PRO:HA	2.36	0.46
2:C0:115:ASN:HB2	3:DQ:189:THR:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:84:PRO:HG3	2:C3:108:TRP:CH2	2.50	0.46
2:C4:46:THR:CG2	3:D5:165:ASP:HA	2.38	0.46
2:C5:152:TYR:HB2	2:C5:197:LEU:HD22	1.97	0.46
2:C9:46:THR:CG2	3:Da:165:ASP:HA	2.38	0.46
2:CC:74:SER:O	2:CC:75:HIS:C	2.58	0.46
2:CC:84:PRO:HG3	2:CC:108:TRP:CH2	2.50	0.46
2:CG:36:TYR:CE2	2:CG:130:PRO:CG	2.98	0.46
2:CG:75:HIS:NE2	3:DG:59:LYS:HB3	2.31	0.46
2:CI:152:TYR:HB2	2:CI:197:LEU:HD22	1.97	0.46
2:CN:212:THR:HG23	3:D2:188:LEU:HD22	1.96	0.46
2:CP:88:LEU:C	2:CP:90:LYS:H	2.24	0.46
2:CQ:74:SER:O	2:CQ:75:HIS:C	2.58	0.46
2:CQ:207:GLN:HB3	3:Dp:196:ILE:CG2	2.45	0.46
2:CR:13:ARG:HD3	2:CR:13:ARG:HA	1.72	0.46
2:CT:74:SER:O	2:CT:75:HIS:C	2.58	0.46
2:CU:13:ARG:HA	2:CU:13:ARG:HD3	1.72	0.46
2:CW:49:ASP:HA	2:CW:50:PRO:HD2	1.80	0.46
2:CX:74:SER:O	2:CX:75:HIS:C	2.58	0.46
2:Ca:84:PRO:HG3	2:Ca:108:TRP:CH2	2.50	0.46
2:Cb:46:THR:CG2	3:Dc:165:ASP:HA	2.38	0.46
2:Cc:42:ARG:HA	2:Cc:43:PRO:HD2	1.64	0.46
2:Cc:84:PRO:HG3	2:Cc:108:TRP:CH2	2.50	0.46
2:Ce:84:PRO:HG3	2:Ce:108:TRP:CH2	2.50	0.46
2:Ce:212:THR:HG23	3:DC:188:LEU:HD22	1.96	0.46
2:Cg:76:GLY:HA2	2:Cg:197:LEU:HD21	1.97	0.46
2:Cg:95:HIS:CD2	2:Cg:95:HIS:C	2.93	0.46
2:Cg:207:GLN:HB3	3:D3:196:ILE:CG2	2.45	0.46
2:Ch:129:VAL:HA	2:Ch:130:PRO:HD3	1.78	0.46
2:Ci:13:ARG:HA	2:Ci:13:ARG:HD3	1.72	0.46
2:Ci:84:PRO:HG3	2:Ci:108:TRP:CH2	2.50	0.46
2:Cj:75:HIS:NE2	3:Dj:59:LYS:HB3	2.30	0.46
2:Cj:115:ASN:HB2	3:DM:189:THR:HG22	1.96	0.46
2:Cm:212:THR:HG22	2:Cm:213:MET:N	2.30	0.46
2:Co:88:LEU:C	2:Co:90:LYS:H	2.24	0.46
2:Co:95:HIS:CD2	2:Co:95:HIS:C	2.92	0.46
2:Cq:212:THR:HG23	3:DY:188:LEU:HD22	1.96	0.46
2:Cr:58:LEU:HB3	2:Cr:59:SER:H	1.65	0.46
2:Cr:84:PRO:HD3	2:Cr:108:TRP:CZ2	2.49	0.46
2:Cw:73:GLN:HA	2:Cw:73:GLN:NE2	2.17	0.46
2:Cw:74:SER:O	2:Cw:75:HIS:C	2.58	0.46
2:Cw:75:HIS:NE2	3:ED:59:LYS:HB3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cx:36:TYR:CE2	2:Cx:130:PRO:CG	2.98	0.46
2:Cx:74:SER:O	2:Cx:75:HIS:C	2.58	0.46
2:Cx:129:VAL:HA	2:Cx:130:PRO:HD3	1.78	0.46
3:D0:220:VAL:HG12	3:D0:221:ASP:O	2.15	0.46
3:D1:84:GLU:N	3:D1:84:GLU:OE1	2.48	0.46
3:D1:117:LYS:O	3:D1:191:LEU:HD22	2.15	0.46
3:D3:122:VAL:HA	3:D3:185:VAL:HA	1.97	0.46
3:D4:160:TYR:HD1	3:D4:161:SER:N	2.13	0.46
3:D7:157:ASN:O	3:D7:159:PRO:HD3	2.14	0.46
3:DA:110:PHE:HB3	3:DA:148:VAL:HG11	1.96	0.46
3:DC:220:VAL:HG12	3:DC:221:ASP:O	2.15	0.46
3:DD:25:LEU:HD21	3:DE:15:MET:HG2	1.97	0.46
3:DE:56:ILE:CG1	3:DE:74:PHE:CE1	2.98	0.46
3:DE:70:ASP:HA	3:DE:135:ARG:HH12	1.79	0.46
3:DE:108:PHE:O	3:DE:153:ALA:HA	2.16	0.46
3:DE:160:TYR:HD1	3:DE:161:SER:N	2.13	0.46
3:DF:44:ILE:HG23	3:DF:45:ASP:N	2.30	0.46
3:DF:103:SER:HB3	3:DF:159:PRO:CA	2.35	0.46
3:DG:62:PHE:CE2	3:DG:204:VAL:HG11	2.50	0.46
3:DH:103:SER:HB3	3:DH:159:PRO:C	2.40	0.46
3:DH:122:VAL:HA	3:DH:185:VAL:HA	1.97	0.46
3:DN:108:PHE:O	3:DN:153:ALA:HA	2.15	0.46
3:DN:220:VAL:HG12	3:DN:221:ASP:O	2.15	0.46
3:DO:195:ASP:HB2	3:DO:198:VAL:HG22	1.98	0.46
3:DP:15:MET:CG	3:DT:25:LEU:HD21	2.45	0.46
3:DQ:36:VAL:HA	3:DQ:37:PRO:HD3	1.53	0.46
3:DR:108:PHE:O	3:DR:153:ALA:HA	2.15	0.46
3:DR:120:PHE:HD2	3:DR:146:TRP:CH2	2.34	0.46
3:DS:120:PHE:HD2	3:DS:146:TRP:CH2	2.34	0.46
3:DT:122:VAL:HA	3:DT:185:VAL:HA	1.97	0.46
3:DU:62:PHE:CE2	3:DU:204:VAL:HG11	2.50	0.46
3:DU:122:VAL:HG22	3:DU:123:ALA:N	2.30	0.46
3:DW:19:PRO:HG3	4:FW:17:ASN:ND2	2.26	0.46
3:DY:120:PHE:HD2	3:DY:146:TRP:CH2	2.34	0.46
3:Da:56:ILE:CG1	3:Da:74:PHE:CE1	2.98	0.46
3:Da:62:PHE:CE2	3:Da:204:VAL:HG11	2.50	0.46
3:Da:103:SER:HB3	3:Da:159:PRO:C	2.40	0.46
3:Da:122:VAL:HA	3:Da:185:VAL:HA	1.97	0.46
3:De:15:MET:HG2	3:Di:25:LEU:HD21	1.97	0.46
3:De:110:PHE:HB3	3:De:148:VAL:HG11	1.97	0.46
3:Dj:101:ARG:HD2	3:Dj:165:ASP:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dk:195:ASP:HB2	3:Dk:198:VAL:HG22	1.98	0.46
3:Dl:62:PHE:CE2	3:Dl:204:VAL:HG11	2.50	0.46
3:Dm:62:PHE:CE2	3:Dm:204:VAL:HG11	2.50	0.46
3:Do:25:LEU:HD21	3:Dp:15:MET:CG	2.45	0.46
3:Dp:120:PHE:HD2	3:Dp:146:TRP:CH2	2.34	0.46
3:Dq:62:PHE:CE2	3:Dq:204:VAL:HG11	2.50	0.46
3:Dq:195:ASP:HB2	3:Dq:198:VAL:HG22	1.98	0.46
3:Dr:84:GLU:N	3:Dr:84:GLU:OE1	2.48	0.46
3:Ds:62:PHE:CE2	3:Ds:204:VAL:HG11	2.50	0.46
3:Ds:117:LYS:O	3:Ds:191:LEU:HD22	2.15	0.46
3:Ds:195:ASP:HB2	3:Ds:198:VAL:HG22	1.98	0.46
3:EB:122:VAL:HG22	3:EB:123:ALA:N	2.30	0.46
3:EC:120:PHE:HD2	3:EC:146:TRP:CH2	2.34	0.46
3:ED:84:GLU:N	3:ED:84:GLU:OE1	2.48	0.46
3:ED:110:PHE:HB3	3:ED:148:VAL:HG11	1.96	0.46
3:EE:103:SER:HB3	3:EE:159:PRO:C	2.40	0.46
3:EE:122:VAL:HG22	3:EE:123:ALA:N	2.30	0.46
4:Fw:32:ASN:HB3	4:Fw:33:SER:H	1.58	0.46
1:A0:46:SER:HB2	1:A0:197:LEU:O	2.15	0.46
1:A1:112:PRO:HB2	3:D3:223:PRO:HB3	1.98	0.46
1:A1:165:ARG:HG2	2:C2:180:PRO:O	2.16	0.46
1:A1:220:CYS:HA	1:A1:221:PRO:HD2	1.82	0.46
1:A2:103:TRP:HB2	1:A2:198:THR:HG23	1.96	0.46
1:A3:184:TYR:CE2	2:C4:139:ALA:HB2	2.51	0.46
1:A4:45:LEU:HB2	1:A4:202:HIS:HA	1.98	0.46
1:A5:83:GLU:C	1:A5:84:LEU:HD12	2.41	0.46
1:A6:139:SER:HA	1:A6:140:PRO:HD3	1.62	0.46
1:A9:165:ARG:HG2	2:Ca:180:PRO:O	2.16	0.46
1:AA:7:ASP:O	1:AA:8:GLY:C	2.59	0.46
1:AD:220:CYS:HA	1:AD:221:PRO:HD2	1.82	0.46
1:AF:165:ARG:HG2	2:CF:180:PRO:O	2.16	0.46
1:AF:187:LEU:HD22	1:AF:188:PRO:N	2.30	0.46
1:AL:110:GLY:H	1:AM:242:ASN:ND2	2.12	0.46
1:AM:101:PHE:CD2	1:AM:143:VAL:HG11	2.44	0.46
1:AR:187:LEU:HD22	1:AR:188:PRO:N	2.30	0.46
1:AS:242:ASN:ND2	1:Ao:110:GLY:H	2.12	0.46
1:AT:46:SER:HB2	1:AT:197:LEU:O	2.15	0.46
1:AV:112:PRO:HB2	3:DX:223:PRO:HB3	1.98	0.46
1:AW:22:VAL:CG1	1:AW:23:ASP:N	2.79	0.46
1:AW:120:GLN:HB2	1:AW:129:ARG:HD3	1.96	0.46
1:AX:22:VAL:CG1	1:AX:23:ASP:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:84:LEU:CD2	1:AY:209:LEU:HD11	2.45	0.46
1:AZ:146:ILE:HD13	1:AZ:146:ILE:HG21	1.74	0.46
1:Aa:165:ARG:HG2	2:Cc:180:PRO:O	2.16	0.46
1:Ab:184:TYR:CE2	2:Cd:139:ALA:HB2	2.51	0.46
1:Ac:45:LEU:HB2	1:Ac:202:HIS:HA	1.98	0.46
1:Ad:43:LEU:N	1:Ad:43:LEU:CD2	2.74	0.46
1:Ai:120:GLN:HB2	1:Ai:129:ARG:HD3	1.96	0.46
1:Aj:84:LEU:CD2	1:Aj:209:LEU:HD11	2.45	0.46
1:Al:103:TRP:HB2	1:Al:198:THR:HG23	1.96	0.46
1:Al:165:ARG:HG2	2:Cn:180:PRO:O	2.16	0.46
1:Am:184:TYR:CE2	2:Co:139:ALA:HB2	2.51	0.46
1:Ao:184:TYR:CE2	2:CS:139:ALA:HB2	2.51	0.46
1:BB:45:LEU:HB2	1:BB:202:HIS:HA	1.98	0.46
1:BB:184:TYR:CE2	2:Cq:139:ALA:HB2	2.51	0.46
1:BC:7:ASP:O	1:BC:8:GLY:C	2.59	0.46
1:BC:46:SER:HB2	1:BC:197:LEU:O	2.15	0.46
1:BC:84:LEU:CD2	1:BC:209:LEU:HD11	2.45	0.46
1:BD:176:ALA:C	1:BD:178:THR:H	2.22	0.46
1:BE:22:VAL:CG1	1:BE:23:ASP:N	2.79	0.46
1:BE:43:LEU:N	1:BE:43:LEU:CD2	2.74	0.46
1:BE:112:PRO:HB2	3:EB:223:PRO:HB3	1.98	0.46
1:BF:43:LEU:HD23	1:BF:43:LEU:H	1.81	0.46
1:BF:187:LEU:HD22	1:BF:188:PRO:N	2.30	0.46
1:BH:84:LEU:CD2	1:BH:209:LEU:HD11	2.45	0.46
1:BI:165:ARG:HG2	2:Cx:180:PRO:O	2.16	0.46
2:C1:76:GLY:HA2	2:C1:197:LEU:HD21	1.97	0.46
2:C2:115:ASN:HB2	3:Dh:189:THR:HG22	1.97	0.46
2:C3:92:GLY:HA3	2:CY:228:ASN:OD1	2.16	0.46
2:C3:228:ASN:OD1	2:CY:92:GLY:HA3	2.16	0.46
2:C4:23:ILE:HD12	2:C4:23:ILE:H	1.80	0.46
2:C4:228:ASN:OD1	2:Cu:92:GLY:HA3	2.16	0.46
2:C5:74:SER:O	2:C5:75:HIS:C	2.58	0.46
2:C5:75:HIS:NE2	3:D5:59:LYS:HB3	2.30	0.46
2:C7:23:ILE:HD12	2:C7:23:ILE:H	1.80	0.46
2:C7:84:PRO:HG3	2:C7:108:TRP:CH2	2.50	0.46
2:C7:152:TYR:HB2	2:C7:197:LEU:HD22	1.97	0.46
2:C9:13:ARG:HA	2:C9:13:ARG:HD3	1.72	0.46
2:C9:152:TYR:HB2	2:C9:197:LEU:HD22	1.97	0.46
2:CB:65:LYS:CB	3:Df:135:ARG:HH21	2.29	0.46
2:CC:228:ASN:OD1	2:Cm:92:GLY:HA3	2.16	0.46
2:CF:76:GLY:HA2	2:CF:197:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:88:LEU:C	2:CH:90:LYS:H	2.23	0.46
2:CH:212:THR:HG22	2:CH:213:MET:N	2.30	0.46
2:CK:95:HIS:CD2	2:CK:95:HIS:C	2.93	0.46
2:CK:115:ASN:HD22	3:Db:190:ALA:C	2.17	0.46
2:CK:152:TYR:HB2	2:CK:197:LEU:HD22	1.98	0.46
2:CL:74:SER:O	2:CL:75:HIS:C	2.58	0.46
2:CL:95:HIS:C	2:CL:95:HIS:CD2	2.93	0.46
2:CM:42:ARG:HA	2:CM:43:PRO:HD2	1.65	0.46
2:CM:75:HIS:NE2	3:DM:59:LYS:HB3	2.30	0.46
2:CM:92:GLY:HA3	2:Ch:228:ASN:OD1	2.16	0.46
2:CN:46:THR:CG2	3:DO:165:ASP:HA	2.38	0.46
2:CN:76:GLY:HA2	2:CN:197:LEU:HD21	1.97	0.46
2:CP:65:LYS:CB	3:D1:135:ARG:HH21	2.29	0.46
2:CS:88:LEU:C	2:CS:90:LYS:H	2.23	0.46
2:CU:75:HIS:NE2	3:DU:59:LYS:HB3	2.30	0.46
2:CW:216:ALA:HA	2:CW:217:PRO:HD3	1.78	0.46
2:CZ:88:LEU:C	2:CZ:90:LYS:H	2.23	0.46
2:Ca:49:ASP:HA	2:Ca:50:PRO:HD2	1.81	0.46
2:Cc:152:TYR:HB2	2:Cc:197:LEU:HD22	1.97	0.46
2:Cd:88:LEU:C	2:Cd:90:LYS:H	2.24	0.46
2:Cg:74:SER:O	2:Cg:75:HIS:C	2.58	0.46
2:Ch:84:PRO:HD3	2:Ch:108:TRP:CZ2	2.49	0.46
2:Ch:84:PRO:HG2	2:Ch:88:LEU:HG	1.97	0.46
2:Ci:207:GLN:HB3	3:Dj:196:ILE:CG2	2.45	0.46
2:Cj:95:HIS:CD2	2:Cj:95:HIS:C	2.93	0.46
2:Cj:212:THR:HG23	3:DM:188:LEU:HD22	1.96	0.46
2:Cm:134:HIS:HB3	2:Cm:135:THR:H	1.46	0.46
2:Cn:75:HIS:NE2	3:Dn:59:LYS:HB3	2.30	0.46
2:Cn:207:GLN:HB3	3:De:196:ILE:CG2	2.45	0.46
2:Co:74:SER:O	2:Co:75:HIS:C	2.58	0.46
2:Cp:75:HIS:NE2	3:Dp:59:LYS:HB3	2.30	0.46
2:Cs:207:GLN:HB3	3:EA:196:ILE:CG2	2.45	0.46
2:Ct:75:HIS:NE2	3:EA:59:LYS:HB3	2.30	0.46
3:D0:62:PHE:CE2	3:D0:204:VAL:HG11	2.50	0.46
3:D1:122:VAL:HA	3:D1:185:VAL:HA	1.97	0.46
3:D2:84:GLU:N	3:D2:84:GLU:OE1	2.48	0.46
3:D4:117:LYS:O	3:D4:191:LEU:HD22	2.15	0.46
3:D5:220:VAL:HG12	3:D5:221:ASP:O	2.15	0.46
3:D7:62:PHE:CE2	3:D7:204:VAL:HG11	2.50	0.46
3:D7:108:PHE:O	3:D7:153:ALA:HA	2.15	0.46
3:DB:110:PHE:HB3	3:DB:148:VAL:HG11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:195:ASP:HB2	3:DB:198:VAL:HG22	1.98	0.46
3:DC:25:LEU:HD21	3:DD:15:MET:CG	2.45	0.46
3:DC:62:PHE:CE2	3:DC:204:VAL:HG11	2.50	0.46
3:DC:122:VAL:HA	3:DC:185:VAL:HA	1.97	0.46
3:DD:120:PHE:HD2	3:DD:146:TRP:CH2	2.34	0.46
3:DE:120:PHE:HD2	3:DE:146:TRP:CH2	2.34	0.46
3:DF:80:LEU:HD12	3:DF:80:LEU:H	1.77	0.46
3:DH:36:VAL:HA	3:DH:37:PRO:HD3	1.53	0.46
3:DI:19:PRO:HG3	4:FI:17:ASN:ND2	2.26	0.46
3:DJ:56:ILE:CG1	3:DJ:74:PHE:CE1	2.98	0.46
3:DM:84:GLU:CD	3:DM:84:GLU:H	2.20	0.46
3:DM:103:SER:HB3	3:DM:159:PRO:C	2.40	0.46
3:DN:56:ILE:CG1	3:DN:74:PHE:CE1	2.98	0.46
3:DN:101:ARG:HD2	3:DN:165:ASP:O	2.14	0.46
3:DN:195:ASP:HB2	3:DN:198:VAL:HG22	1.98	0.46
3:DQ:117:LYS:O	3:DQ:191:LEU:HD22	2.15	0.46
3:DR:117:LYS:O	3:DR:191:LEU:HD22	2.15	0.46
3:DT:56:ILE:CG1	3:DT:74:PHE:CE1	2.98	0.46
3:DT:62:PHE:CE2	3:DT:204:VAL:HG11	2.50	0.46
3:DU:110:PHE:HB3	3:DU:148:VAL:HG11	1.96	0.46
3:DU:117:LYS:O	3:DU:191:LEU:HD22	2.15	0.46
3:DW:110:PHE:HB3	3:DW:148:VAL:HG11	1.96	0.46
3:DX:62:PHE:CE2	3:DX:204:VAL:HG11	2.50	0.46
3:Da:108:PHE:O	3:Da:153:ALA:HA	2.16	0.46
3:Da:117:LYS:O	3:Da:191:LEU:HD22	2.15	0.46
3:Da:157:ASN:O	3:Da:159:PRO:HD3	2.14	0.46
3:Db:120:PHE:HD2	3:Db:146:TRP:CH2	2.34	0.46
3:De:122:VAL:HA	3:De:185:VAL:HA	1.97	0.46
3:Dl:195:ASP:HB2	3:Dl:198:VAL:HG22	1.98	0.46
3:Dm:103:SER:HB3	3:Dm:159:PRO:C	2.40	0.46
3:Dm:122:VAL:HG22	3:Dm:123:ALA:N	2.30	0.46
3:Dn:120:PHE:HD2	3:Dn:146:TRP:CH2	2.34	0.46
3:Dp:103:SER:HB3	3:Dp:159:PRO:CA	2.35	0.46
3:Dq:120:PHE:HD2	3:Dq:146:TRP:CH2	2.34	0.46
3:Dr:220:VAL:HG12	3:Dr:221:ASP:O	2.15	0.46
3:Ds:220:VAL:HG12	3:Ds:221:ASP:O	2.15	0.46
3:ED:117:LYS:O	3:ED:191:LEU:HD22	2.15	0.46
4:F2:25:PHE:HZ	4:F3:22:VAL:HG11	1.81	0.46
4:F9:22:VAL:HG11	4:Fd:25:PHE:HZ	1.81	0.46
4:Fw:25:PHE:HZ	4:Fx:22:VAL:HG11	1.81	0.46
1:A0:165:ARG:HG2	2:C1:180:PRO:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:184:TYR:CE2	2:C3:139:ALA:HB2	2.51	0.46
1:A3:22:VAL:CG1	1:A3:23:ASP:N	2.79	0.46
1:A3:38:PHE:CD1	1:A7:137:GLY:HA2	2.49	0.46
1:A3:112:PRO:HB2	3:D5:223:PRO:HB3	1.98	0.46
1:A4:83:GLU:C	1:A4:84:LEU:HD12	2.41	0.46
1:A4:112:PRO:HB2	3:D6:223:PRO:HB3	1.98	0.46
1:A5:165:ARG:HG2	2:C6:180:PRO:O	2.16	0.46
1:A8:43:LEU:HD23	1:A8:43:LEU:H	1.81	0.46
1:A8:45:LEU:HB2	1:A8:202:HIS:HA	1.98	0.46
1:A8:101:PHE:O	1:A8:199:SER:OG	2.33	0.46
1:A9:45:LEU:HB2	1:A9:202:HIS:HA	1.98	0.46
1:AA:46:SER:HB2	1:AA:197:LEU:O	2.15	0.46
1:AA:120:GLN:HB2	1:AA:129:ARG:HD3	1.96	0.46
1:AC:82:LEU:CD2	1:AC:84:LEU:HD11	2.46	0.46
1:AD:165:ARG:HG2	2:CD:180:PRO:O	2.16	0.46
1:AE:82:LEU:CD2	1:AE:84:LEU:HD11	2.46	0.46
1:AE:112:PRO:HB2	3:DA:223:PRO:HB3	1.98	0.46
1:AG:101:PHE:O	1:AG:199:SER:OG	2.33	0.46
1:AH:46:SER:HB2	1:AH:197:LEU:O	2.15	0.46
1:AI:225:PRO:HA	1:AI:226:PRO:HD2	1.88	0.46
1:AJ:170:PHE:CD2	1:AJ:222:ARG:CZ	2.87	0.46
1:AK:45:LEU:HB2	1:AK:202:HIS:HA	1.98	0.46
1:AK:165:ARG:HG2	2:CK:180:PRO:O	2.16	0.46
1:AK:184:TYR:CE2	2:CK:139:ALA:HB2	2.51	0.46
1:AL:22:VAL:CG1	1:AL:23:ASP:N	2.79	0.46
1:AM:43:LEU:HD23	1:AM:43:LEU:H	1.81	0.46
1:AM:239:PHE:CD1	3:DM:170:TYR:CD2	2.96	0.46
1:AO:83:GLU:C	1:AO:84:LEU:HD12	2.41	0.46
1:AO:84:LEU:CD2	1:AO:209:LEU:HD11	2.45	0.46
1:AP:184:TYR:CE2	2:CP:139:ALA:HB2	2.51	0.46
1:AR:45:LEU:HB2	1:AR:202:HIS:HA	1.98	0.46
1:AS:83:GLU:C	1:AS:84:LEU:HD12	2.41	0.46
1:AS:101:PHE:CD2	1:AS:143:VAL:CG1	2.91	0.46
1:AS:184:TYR:CE2	2:CT:139:ALA:HB2	2.51	0.46
1:AT:143:VAL:H	3:DV:14:PHE:CB	2.28	0.46
1:AU:45:LEU:HB2	1:AU:202:HIS:HA	1.98	0.46
1:AU:101:PHE:O	1:AU:199:SER:OG	2.33	0.46
1:AY:43:LEU:HD23	1:AY:43:LEU:H	1.81	0.46
1:AY:219:TYR:HD2	3:DZ:39:ARG:HB2	1.79	0.46
1:AZ:82:LEU:CD2	1:AZ:84:LEU:HD11	2.46	0.46
1:Ab:187:LEU:HD22	1:Ab:188:PRO:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ac:184:TYR:CE2	2:Ce:139:ALA:HB2	2.51	0.46
1:Ad:101:PHE:O	1:Ad:199:SER:OG	2.33	0.46
1:Ae:87:GLN:O	1:Ae:88:PHE:CB	2.62	0.46
1:Af:112:PRO:HB2	3:Di:223:PRO:HB3	1.98	0.46
1:Af:165:ARG:HG2	2:Ch:180:PRO:O	2.16	0.46
1:Ag:82:LEU:CD2	1:Ag:84:LEU:HD11	2.46	0.46
1:Ah:139:SER:HA	1:Ah:140:PRO:HD3	1.62	0.46
1:Ai:82:LEU:CD2	1:Ai:84:LEU:HD11	2.46	0.46
1:Ai:84:LEU:CD2	1:Ai:209:LEU:HD11	2.45	0.46
1:Ai:112:PRO:HB2	3:Di:223:PRO:HB3	1.97	0.46
1:Aj:219:TYR:HD2	3:Di:39:ARG:HB2	1.79	0.46
1:Al:45:LEU:HB2	1:Al:202:HIS:HA	1.98	0.46
1:Al:184:TYR:CE2	2:Cn:139:ALA:HB2	2.51	0.46
1:Am:45:LEU:HB2	1:Am:202:HIS:HA	1.98	0.46
1:An:45:LEU:HB2	1:An:202:HIS:HA	1.98	0.46
1:An:103:TRP:HB2	1:An:198:THR:HG23	1.96	0.46
1:Ao:46:SER:HB2	1:Ao:197:LEU:O	2.15	0.46
1:BB:165:ARG:HG2	2:Cq:180:PRO:O	2.16	0.46
1:BD:139:SER:HA	1:BD:140:PRO:HD3	1.62	0.46
1:BD:187:LEU:HD22	1:BD:188:PRO:N	2.30	0.46
1:BE:184:TYR:CE2	2:Ct:139:ALA:HB2	2.51	0.46
1:BF:82:LEU:CD2	1:BF:84:LEU:HD11	2.46	0.46
1:BG:45:LEU:HB2	1:BG:202:HIS:HA	1.98	0.46
1:BH:43:LEU:HD23	1:BH:43:LEU:H	1.81	0.46
1:BH:82:LEU:CD2	1:BH:84:LEU:HD11	2.46	0.46
1:BI:84:LEU:CD2	1:BI:209:LEU:HD11	2.45	0.46
1:BI:120:GLN:HB2	1:BI:129:ARG:HD3	1.96	0.46
2:C0:152:TYR:HB2	2:C0:197:LEU:HD22	1.98	0.46
2:C1:212:THR:HG22	2:C1:213:MET:N	2.30	0.46
2:C2:49:ASP:HA	2:C2:50:PRO:HD2	1.80	0.46
2:C2:75:HIS:NE2	3:D2:59:LYS:HB3	2.30	0.46
2:C2:129:VAL:HA	2:C2:130:PRO:HD3	1.78	0.46
2:C8:23:ILE:HD12	2:C8:23:ILE:H	1.80	0.46
2:C8:75:HIS:NE2	3:D8:59:LYS:HB3	2.30	0.46
2:C9:23:ILE:HD12	2:C9:23:ILE:H	1.80	0.46
2:C9:115:ASN:HB2	3:DI:189:THR:HG22	1.96	0.46
2:C9:160:HIS:HD1	2:C9:160:HIS:N	2.14	0.46
2:CA:92:GLY:HA3	2:CV:228:ASN:OD1	2.16	0.46
2:CD:65:LYS:CB	3:D7:135:ARG:HH21	2.29	0.46
2:CE:75:HIS:NE2	3:DE:59:LYS:HB3	2.30	0.46
2:CE:207:GLN:HB3	3:DF:196:ILE:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:115:ASN:HB2	3:EB:189:THR:HG22	1.96	0.46
2:CJ:209:VAL:N	2:CJ:210:PRO:CD	2.68	0.46
2:CK:92:GLY:HA3	2:Ca:228:ASN:OD1	2.16	0.46
2:CK:207:GLN:HB3	3:Db:196:ILE:CG2	2.45	0.46
2:CL:115:ASN:HB2	3:Dk:189:THR:HG22	1.96	0.46
2:CM:209:VAL:N	2:CM:210:PRO:CD	2.68	0.46
2:CM:212:THR:HG23	3:Di:188:LEU:HD22	1.96	0.46
2:CN:84:PRO:HG2	2:CN:88:LEU:HG	1.97	0.46
2:CQ:92:GLY:HA3	2:Co:228:ASN:OD1	2.16	0.46
2:CQ:180:PRO:HD2	2:CQ:189:HIS:HE1	1.76	0.46
2:CR:74:SER:O	2:CR:75:HIS:C	2.58	0.46
2:CR:75:HIS:NE2	3:DR:59:LYS:HB3	2.30	0.46
2:CR:92:GLY:HA3	2:Cw:228:ASN:OD1	2.16	0.46
2:CT:212:THR:HG22	2:CT:213:MET:N	2.30	0.46
2:CV:95:HIS:CD2	2:CV:95:HIS:C	2.93	0.46
2:CX:88:LEU:C	2:CX:90:LYS:H	2.23	0.46
2:CZ:46:THR:CG2	3:D0:165:ASP:HA	2.38	0.46
2:CZ:134:HIS:HB3	2:CZ:135:THR:H	1.46	0.46
2:Ca:88:LEU:C	2:Ca:90:LYS:H	2.23	0.46
2:Ca:207:GLN:HB3	3:DL:196:ILE:CG2	2.45	0.46
2:Cb:76:GLY:HA2	2:Cb:197:LEU:HD21	1.97	0.46
2:Cd:212:THR:HG22	2:Cd:213:MET:N	2.30	0.46
2:Cl:134:HIS:HB3	2:Cl:135:THR:H	1.46	0.46
2:Cl:152:TYR:HB2	2:Cl:197:LEU:HD22	1.98	0.46
2:Cm:212:THR:HG23	3:DD:188:LEU:HD22	1.96	0.46
2:Cn:216:ALA:HA	2:Cn:217:PRO:HD3	1.78	0.46
2:Co:216:ALA:HA	2:Co:217:PRO:HD3	1.78	0.46
2:Cr:160:HIS:HE2	3:Dr:51:TYR:HE1	1.64	0.46
2:Ct:207:GLN:HB3	3:DH:196:ILE:CG2	2.45	0.46
2:Cu:84:PRO:HG3	2:Cu:108:TRP:CH2	2.50	0.46
2:Cv:83:LEU:HA	2:Cv:84:PRO:HA	1.60	0.46
2:Cw:76:GLY:HA2	2:Cw:197:LEU:HD21	1.97	0.46
2:Cx:212:THR:HG22	2:Cx:213:MET:N	2.30	0.46
3:D0:122:VAL:HA	3:D0:185:VAL:HA	1.97	0.46
3:D1:103:SER:HB3	3:D1:159:PRO:C	2.40	0.46
3:D2:25:LEU:HD21	3:D3:15:MET:HG2	1.97	0.46
3:D2:103:SER:HB2	3:D2:159:PRO:HA	1.95	0.46
3:D2:120:PHE:HD2	3:D2:146:TRP:CH2	2.34	0.46
3:D3:117:LYS:O	3:D3:191:LEU:HD22	2.15	0.46
3:D3:120:PHE:HD2	3:D3:146:TRP:CH2	2.34	0.46
3:D5:62:PHE:CE2	3:D5:204:VAL:HG11	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:103:SER:HB3	3:D8:159:PRO:C	2.40	0.46
3:D9:122:VAL:HA	3:D9:185:VAL:HA	1.97	0.46
3:D9:220:VAL:HG12	3:D9:221:ASP:O	2.15	0.46
3:DA:15:MET:HG2	3:DE:25:LEU:HD21	1.97	0.46
3:DA:84:GLU:OE1	3:DA:84:GLU:N	2.48	0.46
3:DA:108:PHE:O	3:DA:153:ALA:HA	2.15	0.46
3:DD:195:ASP:HB2	3:DD:198:VAL:HG22	1.98	0.46
3:DG:110:PHE:HB3	3:DG:148:VAL:HG11	1.96	0.46
3:DH:103:SER:HB2	3:DH:159:PRO:HA	1.95	0.46
3:DI:120:PHE:HD2	3:DI:146:TRP:CH2	2.34	0.46
3:DJ:108:PHE:O	3:DJ:153:ALA:HA	2.15	0.46
3:DK:70:ASP:HA	3:DK:135:ARG:HH12	1.79	0.46
3:DK:108:PHE:O	3:DK:153:ALA:HA	2.15	0.46
3:DK:117:LYS:O	3:DK:191:LEU:HD22	2.15	0.46
3:DK:122:VAL:HG22	3:DK:123:ALA:N	2.30	0.46
3:DL:56:ILE:CG1	3:DL:74:PHE:CE1	2.98	0.46
3:DL:108:PHE:O	3:DL:153:ALA:HA	2.15	0.46
3:DL:110:PHE:HB3	3:DL:148:VAL:HG11	1.96	0.46
3:DM:44:ILE:HG23	3:DM:45:ASP:N	2.30	0.46
3:DM:122:VAL:HG22	3:DM:123:ALA:N	2.30	0.46
3:DO:103:SER:HB3	3:DO:159:PRO:C	2.40	0.46
3:DO:122:VAL:HG22	3:DO:123:ALA:N	2.30	0.46
3:DP:195:ASP:HB2	3:DP:198:VAL:HG22	1.98	0.46
3:DT:160:TYR:CD1	3:DT:160:TYR:C	2.94	0.46
3:DV:84:GLU:OE1	3:DV:84:GLU:N	2.48	0.46
3:DV:122:VAL:HA	3:DV:185:VAL:HA	1.97	0.46
3:DW:108:PHE:O	3:DW:153:ALA:HA	2.16	0.46
3:Db:56:ILE:CG1	3:Db:74:PHE:CE1	2.98	0.46
3:Dd:122:VAL:HA	3:Dd:185:VAL:HA	1.97	0.46
3:Dd:195:ASP:HB2	3:Dd:198:VAL:HG22	1.98	0.46
3:Df:120:PHE:HD2	3:Df:146:TRP:CH2	2.34	0.46
3:Dh:56:ILE:CG1	3:Dh:74:PHE:CE1	2.98	0.46
3:Dh:108:PHE:O	3:Dh:153:ALA:HA	2.15	0.46
3:Dh:122:VAL:HG22	3:Dh:123:ALA:N	2.30	0.46
3:Di:56:ILE:CG1	3:Di:74:PHE:CE1	2.98	0.46
3:Di:120:PHE:HD2	3:Di:146:TRP:CH2	2.34	0.46
3:Dm:108:PHE:O	3:Dm:153:ALA:HA	2.15	0.46
3:Dn:110:PHE:HB3	3:Dn:148:VAL:HG11	1.96	0.46
3:Dn:195:ASP:HB2	3:Dn:198:VAL:HG22	1.98	0.46
3:Dp:62:PHE:CE2	3:Dp:204:VAL:HG11	2.50	0.46
3:Dp:117:LYS:O	3:Dp:191:LEU:HD22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dq:25:LEU:HD21	3:Dr:15:MET:HG2	1.97	0.46
3:Dq:56:ILE:CG1	3:Dq:74:PHE:CE1	2.98	0.46
3:EA:160:TYR:HD1	3:EA:161:SER:N	2.13	0.46
3:EB:62:PHE:CE2	3:EB:204:VAL:HG11	2.50	0.46
3:EC:25:LEU:HD21	3:ED:15:MET:HG2	1.97	0.46
3:EC:108:PHE:O	3:EC:153:ALA:HA	2.15	0.46
3:ED:195:ASP:HB2	3:ED:198:VAL:HG22	1.98	0.46
3:EE:36:VAL:HA	3:EE:37:PRO:HD3	1.53	0.46
3:EE:195:ASP:HB2	3:EE:198:VAL:HG22	1.98	0.46
4:FB:25:PHE:HZ	4:FC:22:VAL:HG11	1.81	0.46
4:FR:25:PHE:HZ	4:FS:22:VAL:HG11	1.81	0.46
4:Fb:25:PHE:HZ	4:Fc:22:VAL:HG11	1.81	0.46
4:Fj:22:VAL:HG11	4:Fn:25:PHE:HZ	1.81	0.46
1:A0:22:VAL:CG1	1:A0:23:ASP:N	2.79	0.46
1:A1:84:LEU:CD2	1:A1:209:LEU:HD11	2.45	0.46
1:A2:101:PHE:CD2	1:A2:143:VAL:CG1	2.91	0.46
1:A4:165:ARG:HG2	2:C5:180:PRO:O	2.16	0.46
1:A5:45:LEU:HB2	1:A5:202:HIS:HA	1.98	0.46
1:A5:82:LEU:CD2	1:A5:84:LEU:HD11	2.46	0.46
1:A5:184:TYR:CE2	2:C6:139:ALA:HB2	2.51	0.46
1:A7:7:ASP:O	1:A7:8:GLY:C	2.59	0.46
1:A7:183:THR:HA	1:A7:186:TRP:HB3	1.98	0.46
1:A9:82:LEU:CD2	1:A9:84:LEU:HD11	2.46	0.46
1:AA:112:PRO:HB2	3:DB:223:PRO:HB3	1.98	0.46
1:AD:7:ASP:O	1:AD:8:GLY:C	2.59	0.46
1:AD:139:SER:HA	1:AD:140:PRO:HD3	1.62	0.46
1:AE:7:ASP:O	1:AE:8:GLY:C	2.59	0.46
1:AE:219:TYR:HD2	3:DE:39:ARG:HB2	1.79	0.46
1:AG:165:ARG:HG2	2:CG:180:PRO:O	2.16	0.46
1:AG:187:LEU:HD22	1:AG:188:PRO:N	2.30	0.46
1:AH:83:GLU:C	1:AH:84:LEU:HD12	2.41	0.46
1:AI:137:GLY:HA2	1:AJ:38:PHE:CD1	2.48	0.46
1:AI:184:TYR:CE2	2:CI:139:ALA:HB2	2.51	0.46
1:AJ:84:LEU:CD2	1:AJ:209:LEU:HD11	2.45	0.46
1:AM:165:ARG:HG2	2:CM:180:PRO:O	2.16	0.46
1:AO:107:PHE:HB2	1:AO:194:SER:OG	2.16	0.46
1:AP:22:VAL:CG1	1:AP:23:ASP:N	2.79	0.46
1:AP:165:ARG:HG2	2:CP:180:PRO:O	2.16	0.46
1:AP:171:TYR:N	1:AP:185:ASN:OD1	2.45	0.46
1:AQ:82:LEU:CD2	1:AQ:84:LEU:HD11	2.46	0.46
1:AQ:176:ALA:C	1:AQ:178:THR:H	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:22:VAL:CG1	1:AR:23:ASP:N	2.79	0.46
1:AR:137:GLY:HA2	1:Ao:38:PHE:CD1	2.49	0.46
1:AS:101:PHE:O	1:AS:199:SER:OG	2.33	0.46
1:AS:143:VAL:H	3:DP:14:PHE:CB	2.28	0.46
1:AT:7:ASP:O	1:AT:8:GLY:C	2.59	0.46
1:AT:101:PHE:O	1:AT:199:SER:OG	2.33	0.46
1:AT:242:ASN:ND2	1:AX:110:GLY:H	2.12	0.46
1:AV:46:SER:HB2	1:AV:197:LEU:O	2.15	0.46
1:AW:7:ASP:O	1:AW:8:GLY:C	2.59	0.46
1:AW:46:SER:HB2	1:AW:197:LEU:O	2.15	0.46
1:Ac:183:THR:HA	1:Ac:186:TRP:HB3	1.98	0.46
1:Ad:22:VAL:CG1	1:Ad:23:ASP:N	2.79	0.46
1:Ad:120:GLN:HB2	1:Ad:129:ARG:HD3	1.96	0.46
1:Ad:165:ARG:HG2	2:Cf:180:PRO:O	2.16	0.46
1:Ad:184:TYR:CE2	2:Cf:139:ALA:HB2	2.51	0.46
1:Ae:82:LEU:CD2	1:Ae:84:LEU:HD11	2.46	0.46
1:Ae:103:TRP:HB2	1:Ae:198:THR:HG23	1.96	0.46
1:Ae:112:PRO:HB2	3:Dh:223:PRO:HB3	1.98	0.46
1:Ah:38:PHE:CD1	1:Al:137:GLY:HA2	2.49	0.46
1:Ai:43:LEU:HD23	1:Ai:43:LEU:H	1.81	0.46
1:Aj:7:ASP:O	1:Aj:8:GLY:C	2.59	0.46
1:Aj:22:VAL:CG1	1:Aj:23:ASP:N	2.79	0.46
1:Ak:83:GLU:C	1:Ak:84:LEU:HD12	2.41	0.46
1:Am:82:LEU:CD2	1:Am:84:LEU:HD11	2.46	0.46
1:Am:143:VAL:H	3:Dp:14:PHE:CB	2.28	0.46
1:An:82:LEU:CD2	1:An:84:LEU:HD11	2.46	0.46
1:BA:184:TYR:CE2	2:Cp:139:ALA:HB2	2.51	0.46
1:BB:82:LEU:CD2	1:BB:84:LEU:HD11	2.46	0.46
1:BC:183:THR:HA	1:BC:186:TRP:HB3	1.98	0.46
1:BC:184:TYR:CE2	2:Cr:139:ALA:HB2	2.51	0.46
1:BD:184:TYR:CE2	2:Cs:139:ALA:HB2	2.51	0.46
1:BE:83:GLU:C	1:BE:84:LEU:HD12	2.41	0.46
1:BF:84:LEU:CD2	1:BF:209:LEU:HD11	2.45	0.46
1:BH:83:GLU:C	1:BH:84:LEU:HD12	2.41	0.46
1:BI:184:TYR:CE2	2:Cx:139:ALA:HB2	2.51	0.46
2:C1:46:THR:CG2	3:D2:165:ASP:HA	2.38	0.46
2:C3:83:LEU:HA	2:C3:84:PRO:HA	1.60	0.46
2:C5:92:GLY:HA3	2:CF:228:ASN:OD1	2.16	0.46
2:C5:212:THR:HG22	2:C5:213:MET:N	2.30	0.46
2:C6:228:ASN:OD1	2:CD:92:GLY:HA3	2.16	0.46
2:C7:228:ASN:OD1	2:Cl:92:GLY:HA3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:228:ASN:OD1	2:Ck:92:GLY:HA3	2.16	0.46
2:CB:216:ALA:HA	2:CB:217:PRO:HD3	1.78	0.46
2:CD:23:ILE:HD12	2:CD:23:ILE:H	1.80	0.46
2:CE:84:PRO:HG3	2:CE:108:TRP:CH2	2.50	0.46
2:CF:36:TYR:CE2	2:CF:130:PRO:CG	2.98	0.46
2:CF:75:HIS:NE2	3:DF:59:LYS:HB3	2.30	0.46
2:CF:160:HIS:HE2	3:DF:51:TYR:HE1	1.64	0.46
2:CJ:76:GLY:HA2	2:CJ:197:LEU:HD21	1.97	0.46
2:CK:74:SER:O	2:CK:75:HIS:C	2.58	0.46
2:CL:76:GLY:HA2	2:CL:197:LEU:HD21	1.97	0.46
2:CM:65:LYS:CB	3:Di:135:ARG:HH21	2.29	0.46
2:CM:95:HIS:CD2	2:CM:95:HIS:C	2.93	0.46
2:CM:228:ASN:OD1	2:Ch:92:GLY:HA3	2.16	0.46
2:CO:152:TYR:HB2	2:CO:197:LEU:HD22	1.97	0.46
2:CQ:76:GLY:HA2	2:CQ:197:LEU:HD21	1.97	0.46
2:CR:65:LYS:CB	3:EE:135:ARG:HH21	2.29	0.46
2:CT:212:THR:HG23	3:DK:188:LEU:HD22	1.97	0.46
2:CU:212:THR:HG22	2:CU:213:MET:N	2.30	0.46
2:CU:228:ASN:OD1	2:Cf:92:GLY:HA3	2.16	0.46
2:CV:212:THR:HG22	2:CV:213:MET:N	2.30	0.46
2:CW:76:GLY:HA2	2:CW:197:LEU:HD21	1.97	0.46
2:CW:84:PRO:HG3	2:CW:108:TRP:CH2	2.50	0.46
2:CX:46:THR:CG2	3:DY:165:ASP:HA	2.38	0.46
2:Cm:84:PRO:HG2	2:Cm:88:LEU:HG	1.97	0.46
2:Co:84:PRO:HG3	2:Co:108:TRP:CH2	2.50	0.46
2:Cu:58:LEU:HB3	2:Cu:59:SER:H	1.65	0.46
2:Cx:84:PRO:HG3	2:Cx:108:TRP:CH2	2.50	0.46
3:D0:108:PHE:O	3:D0:153:ALA:HA	2.15	0.46
3:D1:160:TYR:HD1	3:D1:161:SER:N	2.13	0.46
3:D1:220:VAL:HG12	3:D1:221:ASP:O	2.15	0.46
3:D2:108:PHE:O	3:D2:153:ALA:HA	2.15	0.46
3:D3:97:PHE:CD1	3:D3:216:LEU:HD23	2.51	0.46
3:D4:13:SER:OG	3:D4:15:MET:CE	2.64	0.46
3:D4:97:PHE:CD1	3:D4:216:LEU:HD23	2.51	0.46
3:D6:117:LYS:O	3:D6:191:LEU:HD22	2.15	0.46
3:D7:97:PHE:CD1	3:D7:216:LEU:HD23	2.51	0.46
3:D8:117:LYS:O	3:D8:191:LEU:HD22	2.15	0.46
3:D9:160:TYR:CD1	3:D9:160:TYR:C	2.94	0.46
3:DA:84:GLU:CD	3:DA:84:GLU:H	2.21	0.46
3:DB:172:ALA:O	3:DB:178:ASN:OD1	2.34	0.46
3:DC:85:LEU:O	3:DC:91:ALA:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DE:97:PHE:CD1	3:DE:216:LEU:HD23	2.51	0.46
3:DG:25:LEU:HD21	3:DH:15:MET:HG2	1.97	0.46
3:DG:103:SER:HB3	3:DG:159:PRO:C	2.40	0.46
3:DH:122:VAL:HG22	3:DH:123:ALA:N	2.30	0.46
3:DH:195:ASP:HB2	3:DH:198:VAL:HG22	1.98	0.46
3:DI:108:PHE:O	3:DI:153:ALA:HA	2.15	0.46
3:DI:110:PHE:HB3	3:DI:148:VAL:HG11	1.96	0.46
3:DK:160:TYR:HD1	3:DK:161:SER:N	2.13	0.46
3:DN:122:VAL:HA	3:DN:185:VAL:HA	1.97	0.46
3:DO:13:SER:OG	3:DO:15:MET:CE	2.64	0.46
3:DP:172:ALA:O	3:DP:178:ASN:OD1	2.34	0.46
3:DQ:97:PHE:CD1	3:DQ:216:LEU:HD23	2.51	0.46
3:DQ:108:PHE:O	3:DQ:153:ALA:HA	2.15	0.46
3:DR:62:PHE:CE2	3:DR:204:VAL:HG11	2.50	0.46
3:DT:84:GLU:N	3:DT:84:GLU:OE1	2.48	0.46
3:DT:120:PHE:HD2	3:DT:146:TRP:CH2	2.34	0.46
3:DT:160:TYR:HD1	3:DT:161:SER:N	2.13	0.46
3:DU:36:VAL:HA	3:DU:37:PRO:HD3	1.53	0.46
3:DV:56:ILE:CG1	3:DV:74:PHE:CE1	2.98	0.46
3:DV:103:SER:HB3	3:DV:159:PRO:C	2.40	0.46
3:DV:195:ASP:HB2	3:DV:198:VAL:HG22	1.98	0.46
3:DW:117:LYS:O	3:DW:191:LEU:HD22	2.15	0.46
3:DW:195:ASP:HB2	3:DW:198:VAL:HG22	1.98	0.46
3:DX:103:SER:HB3	3:DX:159:PRO:C	2.40	0.46
3:DZ:110:PHE:HB3	3:DZ:148:VAL:HG11	1.96	0.46
3:DZ:195:ASP:HB2	3:DZ:198:VAL:HG22	1.98	0.46
3:Dc:122:VAL:HG22	3:Dc:123:ALA:N	2.30	0.46
3:Dc:154:PHE:CG	3:Dc:155:SER:N	2.84	0.46
3:Dc:160:TYR:CD1	3:Dc:160:TYR:C	2.94	0.46
3:Df:122:VAL:HG22	3:Df:123:ALA:N	2.30	0.46
3:Df:195:ASP:HB2	3:Df:198:VAL:HG22	1.98	0.46
3:Dg:13:SER:OG	3:Dg:15:MET:CE	2.64	0.46
3:Di:195:ASP:HB2	3:Di:198:VAL:HG22	1.98	0.46
3:Dj:56:ILE:CG1	3:Dj:74:PHE:CE1	2.98	0.46
3:Dk:103:SER:HB3	3:Dk:159:PRO:C	2.40	0.46
3:Dm:195:ASP:HB2	3:Dm:198:VAL:HG22	1.98	0.46
3:Do:97:PHE:CD1	3:Do:216:LEU:HD23	2.51	0.46
3:Dq:13:SER:OG	3:Dq:15:MET:CE	2.64	0.46
3:Dr:195:ASP:HB2	3:Dr:198:VAL:HG22	1.98	0.46
3:EA:120:PHE:HD2	3:EA:146:TRP:CH2	2.34	0.46
3:EB:120:PHE:HD2	3:EB:146:TRP:CH2	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:13:SER:OG	3:ED:15:MET:CE	2.64	0.46
3:EE:62:PHE:CE2	3:EE:204:VAL:HG11	2.50	0.46
4:F0:22:VAL:HG11	4:FZ:25:PHE:HZ	1.81	0.46
4:F3:25:PHE:HZ	4:FZ:22:VAL:HG11	1.81	0.46
4:FN:25:PHE:HZ	4:FO:22:VAL:HG11	1.81	0.46
4:Fg:25:PHE:HZ	4:Fh:22:VAL:HG11	1.81	0.46
1:A0:83:GLU:C	1:A0:84:LEU:HD12	2.41	0.46
1:A0:112:PRO:HB2	3:D2:223:PRO:HB3	1.98	0.46
1:A0:183:THR:HA	1:A0:186:TRP:HB3	1.98	0.46
1:A2:112:PRO:HB2	3:DZ:223:PRO:HB3	1.98	0.46
1:A3:83:GLU:C	1:A3:84:LEU:HD12	2.41	0.46
1:A3:242:ASN:ND2	1:A7:110:GLY:H	2.12	0.46
1:A7:22:VAL:CG1	1:A7:23:ASP:N	2.79	0.46
1:A7:82:LEU:CD2	1:A7:84:LEU:HD11	2.46	0.46
1:A8:22:VAL:CG1	1:A8:23:ASP:N	2.79	0.46
1:AA:183:THR:HA	1:AA:186:TRP:HB3	1.98	0.46
1:AF:112:PRO:HB2	3:DG:223:PRO:HB3	1.97	0.46
1:AF:170:PHE:CD2	1:AF:222:ARG:CZ	2.87	0.46
1:AH:101:PHE:O	1:AH:199:SER:OG	2.33	0.46
1:AH:183:THR:HA	1:AH:186:TRP:HB3	1.98	0.46
1:AH:184:TYR:CE2	2:CH:139:ALA:HB2	2.51	0.46
1:AI:82:LEU:CD2	1:AI:84:LEU:HD11	2.46	0.46
1:AI:165:ARG:HG2	2:CI:180:PRO:O	2.16	0.46
1:AJ:45:LEU:HB2	1:AJ:202:HIS:HA	1.98	0.46
1:AJ:82:LEU:CD2	1:AJ:84:LEU:HD11	2.46	0.46
1:AJ:101:PHE:CD2	1:AJ:143:VAL:HG11	2.44	0.46
1:AK:83:GLU:C	1:AK:84:LEU:HD12	2.41	0.46
1:AK:120:GLN:HB2	1:AK:129:ARG:HD3	1.96	0.46
1:AK:137:GLY:HA2	1:AL:38:PHE:CD1	2.49	0.46
1:AL:87:GLN:O	1:AL:88:PHE:CB	2.62	0.46
1:AL:107:PHE:HB2	1:AL:194:SER:OG	2.16	0.46
1:AP:84:LEU:CD2	1:AP:209:LEU:HD11	2.45	0.46
1:AQ:87:GLN:O	1:AQ:88:PHE:CB	2.62	0.46
1:AQ:184:TYR:CE2	2:CQ:139:ALA:HB2	2.51	0.46
1:AS:45:LEU:HB2	1:AS:202:HIS:HA	1.98	0.46
1:AS:170:PHE:CD2	1:AS:222:ARG:CZ	2.87	0.46
1:AU:82:LEU:CD2	1:AU:84:LEU:HD11	2.46	0.46
1:AU:84:LEU:CD2	1:AU:209:LEU:HD11	2.45	0.46
1:AV:82:LEU:CD2	1:AV:84:LEU:HD11	2.46	0.46
1:AV:184:TYR:CE2	2:CW:139:ALA:HB2	2.51	0.46
1:AW:112:PRO:HB2	3:DY:223:PRO:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:143:VAL:H	3:DY:14:PHE:CB	2.28	0.46
1:AW:184:TYR:CE2	2:CX:139:ALA:HB2	2.51	0.46
1:AY:112:PRO:HB2	3:D0:223:PRO:HB3	1.97	0.46
1:AZ:184:TYR:CE2	2:C0:139:ALA:HB2	2.51	0.46
1:Aa:184:TYR:CE2	2:Cc:139:ALA:HB2	2.51	0.46
1:Ab:22:VAL:CG1	1:Ab:23:ASP:N	2.79	0.46
1:Ac:83:GLU:C	1:Ac:84:LEU:HD12	2.41	0.46
1:Ad:83:GLU:C	1:Ad:84:LEU:HD12	2.41	0.46
1:Ad:101:PHE:CD2	1:Ad:143:VAL:CG1	2.91	0.46
1:Ae:22:VAL:CG1	1:Ae:23:ASP:N	2.79	0.46
1:Ae:43:LEU:HD23	1:Ae:43:LEU:H	1.81	0.46
1:Af:45:LEU:HB2	1:Af:202:HIS:HA	1.98	0.46
1:Ag:83:GLU:C	1:Ag:84:LEU:HD12	2.41	0.46
1:Ah:143:VAL:H	3:Dk:14:PHE:CB	2.28	0.46
1:Aj:139:SER:HA	1:Aj:140:PRO:HD3	1.62	0.46
1:Ak:7:ASP:O	1:Ak:8:GLY:C	2.59	0.46
1:Ak:143:VAL:H	3:Dn:14:PHE:CB	2.28	0.46
1:Ak:183:THR:HA	1:Ak:186:TRP:HB3	1.98	0.46
1:Ak:184:TYR:CE2	2:Cm:139:ALA:HB2	2.51	0.46
1:Al:22:VAL:CG1	1:Al:23:ASP:N	2.79	0.46
1:Am:38:PHE:CD1	1:BD:137:GLY:HA2	2.49	0.46
1:An:7:ASP:O	1:An:8:GLY:C	2.59	0.46
1:An:183:THR:HA	1:An:186:TRP:HB3	1.98	0.46
1:An:184:TYR:CE2	2:Cb:139:ALA:HB2	2.51	0.46
1:Ao:187:LEU:HD22	1:Ao:188:PRO:N	2.30	0.46
1:BA:7:ASP:O	1:BA:8:GLY:C	2.59	0.46
1:BA:101:PHE:CD2	1:BA:143:VAL:HG11	2.44	0.46
1:BA:143:VAL:H	3:Dq:14:PHE:CB	2.28	0.46
1:BB:7:ASP:O	1:BB:8:GLY:C	2.59	0.46
1:BB:46:SER:HB2	1:BB:197:LEU:O	2.15	0.46
1:BB:219:TYR:HD2	3:Dq:39:ARG:HB2	1.79	0.46
1:BB:225:PRO:HA	1:BB:226:PRO:HD2	1.87	0.46
1:BD:17:HIS:O	2:Cr:48:SER:HA	2.14	0.46
1:BE:137:GLY:HA2	1:BF:38:PHE:CD1	2.48	0.46
1:BF:143:VAL:H	3:EC:14:PHE:CB	2.28	0.46
1:BG:165:ARG:HG2	2:Cv:180:PRO:O	2.16	0.46
1:BH:45:LEU:HB2	1:BH:202:HIS:HA	1.98	0.46
1:BI:101:PHE:O	1:BI:199:SER:OG	2.33	0.46
1:BI:112:PRO:HB2	3:EA:223:PRO:HB3	1.98	0.46
2:C1:95:HIS:CD2	2:C1:95:HIS:C	2.93	0.46
2:C2:212:THR:HG22	2:C2:213:MET:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:23:ILE:HD12	2:C3:23:ILE:H	1.80	0.46
2:C3:74:SER:O	2:C3:75:HIS:C	2.58	0.46
2:C9:74:SER:O	2:C9:75:HIS:C	2.58	0.46
2:CA:212:THR:HG22	2:CA:213:MET:N	2.30	0.46
2:CB:76:GLY:HA2	2:CB:197:LEU:HD21	1.97	0.46
2:CG:92:GLY:HA3	2:Ct:228:ASN:OD1	2.16	0.46
2:CH:207:GLN:HB3	3:Ds:196:ILE:CG2	2.45	0.46
2:CH:228:ASN:OD1	2:Cr:92:GLY:HA3	2.16	0.46
2:CI:134:HIS:HB3	2:CI:135:THR:H	1.47	0.46
2:CL:88:LEU:C	2:CL:90:LYS:H	2.23	0.46
2:CN:65:LYS:CB	3:D2:135:ARG:HH21	2.29	0.46
2:CO:228:ASN:OD1	2:CT:92:GLY:HA3	2.16	0.46
2:CP:23:ILE:HD12	2:CP:23:ILE:H	1.80	0.46
2:CP:160:HIS:HE2	3:DP:51:TYR:HE1	1.64	0.46
2:CQ:13:ARG:HD3	2:CQ:13:ARG:HA	1.72	0.46
2:CQ:46:THR:CG2	3:DR:165:ASP:HA	2.38	0.46
2:CQ:152:TYR:HB2	2:CQ:197:LEU:HD22	1.97	0.46
2:CS:108:TRP:O	2:CS:218:ILE:HD12	2.17	0.46
2:CS:152:TYR:HB2	2:CS:197:LEU:HD22	1.97	0.46
2:CU:42:ARG:HA	2:CU:43:PRO:HD2	1.65	0.46
2:CV:36:TYR:CE2	2:CV:130:PRO:CG	2.98	0.46
2:CX:84:PRO:HG2	2:CX:88:LEU:HG	1.97	0.46
2:CY:152:TYR:HB2	2:CY:197:LEU:HD22	1.98	0.46
2:Ca:23:ILE:HD12	2:Ca:23:ILE:H	1.80	0.46
2:Ce:74:SER:O	2:Ce:75:HIS:C	2.58	0.46
2:Cf:212:THR:HG22	2:Cf:213:MET:N	2.30	0.46
2:Cg:108:TRP:O	2:Cg:218:ILE:HD12	2.16	0.46
2:Ci:228:ASN:OD1	2:Cn:92:GLY:HA3	2.16	0.46
2:Ck:152:TYR:HB2	2:Ck:197:LEU:HD22	1.98	0.46
2:Cl:135:THR:HG23	2:Cl:145:LEU:HD11	1.98	0.46
2:Cm:75:HIS:NE2	3:Dm:59:LYS:HB3	2.30	0.46
2:Cn:74:SER:O	2:Cn:75:HIS:C	2.58	0.46
2:Cp:23:ILE:HD12	2:Cp:23:ILE:H	1.80	0.46
2:Cr:216:ALA:HA	2:Cr:217:PRO:HD3	1.78	0.46
2:Cx:65:LYS:CB	3:Do:135:ARG:HH21	2.29	0.46
2:Cx:207:GLN:HB3	3:Do:196:ILE:CG2	2.45	0.46
3:D0:97:PHE:CD1	3:D0:216:LEU:HD23	2.51	0.46
3:D0:103:SER:HB3	3:D0:159:PRO:C	2.40	0.46
3:D1:97:PHE:CD1	3:D1:216:LEU:HD23	2.51	0.46
3:D2:13:SER:OG	3:D2:15:MET:CE	2.64	0.46
3:D4:195:ASP:HB2	3:D4:198:VAL:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D5:97:PHE:CD1	3:D5:216:LEU:HD23	2.51	0.46
3:D6:84:GLU:OE1	3:D6:84:GLU:N	2.48	0.46
3:D7:103:SER:HB3	3:D7:159:PRO:CA	2.35	0.46
3:D8:85:LEU:O	3:D8:91:ALA:CB	2.64	0.46
3:D8:120:PHE:HD2	3:D8:146:TRP:CH2	2.34	0.46
3:D9:110:PHE:HB3	3:D9:148:VAL:HG11	1.96	0.46
3:D9:172:ALA:O	3:D9:178:ASN:OD1	2.34	0.46
3:D9:195:ASP:HB2	3:D9:198:VAL:HG22	1.98	0.46
3:DA:195:ASP:HB2	3:DA:198:VAL:HG22	1.98	0.46
3:DC:160:TYR:HD1	3:DC:161:SER:N	2.13	0.46
3:DF:103:SER:HB3	3:DF:159:PRO:C	2.40	0.46
3:DG:122:VAL:HA	3:DG:185:VAL:HA	1.97	0.46
3:DG:122:VAL:HG22	3:DG:123:ALA:N	2.30	0.46
3:DG:195:ASP:HB2	3:DG:198:VAL:HG22	1.98	0.46
3:DI:220:VAL:HG12	3:DI:221:ASP:O	2.15	0.46
3:DJ:85:LEU:O	3:DJ:91:ALA:CB	2.64	0.46
3:DK:13:SER:OG	3:DK:15:MET:CE	2.64	0.46
3:DK:25:LEU:HD21	3:DL:15:MET:HG2	1.97	0.46
3:DK:195:ASP:HB2	3:DK:198:VAL:HG22	1.98	0.46
3:DM:195:ASP:HB2	3:DM:198:VAL:HG22	1.98	0.46
3:DO:108:PHE:O	3:DO:153:ALA:HA	2.15	0.46
3:DP:103:SER:HB3	3:DP:159:PRO:C	2.40	0.46
3:DQ:85:LEU:O	3:DQ:91:ALA:CB	2.64	0.46
3:DQ:154:PHE:CG	3:DQ:155:SER:N	2.84	0.46
3:DR:195:ASP:HB2	3:DR:198:VAL:HG22	1.98	0.46
3:DS:13:SER:OG	3:DS:15:MET:CE	2.64	0.46
3:DS:56:ILE:CG1	3:DS:74:PHE:CE1	2.98	0.46
3:DV:120:PHE:HD2	3:DV:146:TRP:CH2	2.34	0.46
3:DV:198:VAL:HG23	3:DV:199:ASN:H	1.81	0.46
3:DW:103:SER:HB3	3:DW:159:PRO:C	2.40	0.46
3:DX:172:ALA:O	3:DX:178:ASN:OD1	2.34	0.46
3:DZ:120:PHE:HD2	3:DZ:146:TRP:CH2	2.34	0.46
3:Da:195:ASP:HB2	3:Da:198:VAL:HG22	1.98	0.46
3:Dd:97:PHE:CD1	3:Dd:216:LEU:HD23	2.51	0.46
3:De:97:PHE:CD1	3:De:216:LEU:HD23	2.51	0.46
3:De:195:ASP:HB2	3:De:198:VAL:HG22	1.98	0.46
3:Dg:122:VAL:HG22	3:Dg:123:ALA:N	2.30	0.46
3:Dg:195:ASP:HB2	3:Dg:198:VAL:HG22	1.98	0.46
3:Di:122:VAL:HA	3:Di:185:VAL:HA	1.97	0.46
3:Di:160:TYR:CD1	3:Di:160:TYR:C	2.94	0.46
3:Dj:13:SER:OG	3:Dj:15:MET:CE	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dj:84:GLU:CD	3:Dj:84:GLU:H	2.21	0.46
3:Dk:120:PHE:HD2	3:Dk:146:TRP:CH2	2.34	0.46
3:Dk:122:VAL:HG22	3:Dk:123:ALA:N	2.30	0.46
3:Dm:13:SER:OG	3:Dm:15:MET:CE	2.64	0.46
3:Dm:84:GLU:CD	3:Dm:84:GLU:H	2.21	0.46
3:Dm:154:PHE:CG	3:Dm:155:SER:N	2.84	0.46
3:Do:160:TYR:HD1	3:Do:161:SER:N	2.13	0.46
3:Dp:110:PHE:HB3	3:Dp:148:VAL:HG11	1.96	0.46
3:Ds:103:SER:HB3	3:Ds:159:PRO:C	2.40	0.46
3:EA:97:PHE:CD1	3:EA:216:LEU:HD23	2.51	0.46
3:EB:13:SER:OG	3:EB:15:MET:CE	2.64	0.46
3:EB:195:ASP:HB2	3:EB:198:VAL:HG22	1.98	0.46
3:EC:103:SER:HB3	3:EC:159:PRO:C	2.40	0.46
3:ED:122:VAL:HA	3:ED:185:VAL:HA	1.97	0.46
3:EE:13:SER:OG	3:EE:15:MET:CE	2.64	0.46
3:EE:117:LYS:O	3:EE:191:LEU:HD22	2.15	0.46
4:F6:25:PHE:HZ	4:F7:22:VAL:HG11	1.81	0.46
4:F9:25:PHE:HZ	4:Fa:22:VAL:HG11	1.81	0.46
4:FM:25:PHE:HZ	4:FN:22:VAL:HG11	1.81	0.46
4:Fa:25:PHE:HZ	4:Fb:22:VAL:HG11	1.81	0.46
4:Fk:25:PHE:HZ	4:Fl:22:VAL:HG11	1.81	0.46
4:Fu:32:ASN:HB3	4:Fu:33:SER:H	1.58	0.46
1:A1:82:LEU:CD2	1:A1:84:LEU:HD11	2.46	0.45
1:A2:22:VAL:CG1	1:A2:23:ASP:N	2.79	0.45
1:A2:165:ARG:HG2	2:C3:180:PRO:O	2.16	0.45
1:A3:183:THR:HA	1:A3:186:TRP:HB3	1.98	0.45
1:A6:184:TYR:CE2	2:C7:139:ALA:HB2	2.51	0.45
1:A8:107:PHE:HB2	1:A8:194:SER:OG	2.17	0.45
1:A9:112:PRO:HB2	3:Db:223:PRO:HB3	1.98	0.45
1:A9:184:TYR:CE2	2:Ca:139:ALA:HB2	2.51	0.45
1:AA:22:VAL:CG1	1:AA:23:ASP:N	2.79	0.45
1:AD:45:LEU:HB2	1:AD:202:HIS:HA	1.98	0.45
1:AD:82:LEU:CD2	1:AD:84:LEU:HD11	2.46	0.45
1:AE:171:TYR:N	1:AE:185:ASN:OD1	2.44	0.45
1:AG:112:PRO:HB2	3:DH:223:PRO:HB3	1.97	0.45
1:AG:137:GLY:HA2	1:AH:38:PHE:CD1	2.48	0.45
1:AJ:184:TYR:CE2	2:CJ:139:ALA:HB2	2.51	0.45
1:AK:30:VAL:CG1	1:AK:218:MET:HE3	2.34	0.45
1:AK:46:SER:HB2	1:AK:197:LEU:O	2.15	0.45
1:AK:82:LEU:CD2	1:AK:84:LEU:HD11	2.46	0.45
1:AL:165:ARG:HG2	2:CL:180:PRO:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:46:SER:HB2	1:AM:197:LEU:O	2.15	0.45
1:AM:82:LEU:CD2	1:AM:84:LEU:HD11	2.46	0.45
1:AM:107:PHE:HB2	1:AM:194:SER:OG	2.17	0.45
1:AM:112:PRO:HB2	3:DN:223:PRO:HB3	1.98	0.45
1:AM:184:TYR:CE2	2:CM:139:ALA:HB2	2.51	0.45
1:AN:107:PHE:HB2	1:AN:194:SER:OG	2.16	0.45
1:AO:82:LEU:CD2	1:AO:84:LEU:HD11	2.46	0.45
1:AP:101:PHE:CD2	1:AP:143:VAL:CG1	2.91	0.45
1:AQ:22:VAL:CG1	1:AQ:23:ASP:N	2.79	0.45
1:AQ:45:LEU:HB2	1:AQ:202:HIS:HA	1.98	0.45
1:AQ:83:GLU:C	1:AQ:84:LEU:HD12	2.41	0.45
1:AQ:165:ARG:HG2	2:CQ:180:PRO:O	2.16	0.45
1:AQ:219:TYR:HD2	3:DQ:39:ARG:HB2	1.79	0.45
1:AS:199:SER:C	1:AS:201:ALA:H	2.24	0.45
1:AU:83:GLU:C	1:AU:84:LEU:HD12	2.41	0.45
1:AU:107:PHE:HB2	1:AU:194:SER:OG	2.16	0.45
1:AV:45:LEU:HB2	1:AV:202:HIS:HA	1.98	0.45
1:AW:30:VAL:CG1	1:AW:218:MET:HE3	2.33	0.45
1:AX:83:GLU:C	1:AX:84:LEU:HD12	2.41	0.45
1:AY:82:LEU:CD2	1:AY:84:LEU:HD11	2.46	0.45
1:AY:165:ARG:HG2	2:CZ:180:PRO:O	2.16	0.45
1:Aa:107:PHE:HB2	1:Aa:194:SER:OG	2.16	0.45
1:Ab:82:LEU:CD2	1:Ab:84:LEU:HD11	2.46	0.45
1:Ac:82:LEU:CD2	1:Ac:84:LEU:HD11	2.46	0.45
1:Ac:112:PRO:HB2	3:Df:223:PRO:HB3	1.98	0.45
1:Ac:165:ARG:HG2	2:Ce:180:PRO:O	2.16	0.45
1:Ad:107:PHE:HB2	1:Ad:194:SER:OG	2.17	0.45
1:Ae:45:LEU:HB2	1:Ae:202:HIS:HA	1.98	0.45
1:Ae:107:PHE:HB2	1:Ae:194:SER:OG	2.16	0.45
1:Af:46:SER:HB2	1:Af:197:LEU:O	2.15	0.45
1:Ag:45:LEU:HB2	1:Ag:202:HIS:HA	1.98	0.45
1:Ag:112:PRO:HB2	3:De:223:PRO:HB3	1.98	0.45
1:Ag:165:ARG:HG2	2:Ci:180:PRO:O	2.16	0.45
1:Ag:184:TYR:CE2	2:Ci:139:ALA:HB2	2.51	0.45
1:Ah:184:TYR:CE2	2:Cj:139:ALA:HB2	2.51	0.45
1:Ai:107:PHE:HB2	1:Ai:194:SER:OG	2.17	0.45
1:Aj:171:TYR:N	1:Aj:185:ASN:OD1	2.45	0.45
1:Aj:184:TYR:CE2	2:Cl:139:ALA:HB2	2.51	0.45
1:Ak:107:PHE:HB2	1:Ak:194:SER:OG	2.16	0.45
1:Ak:165:ARG:HG2	2:Cm:180:PRO:O	2.16	0.45
1:Al:82:LEU:CD2	1:Al:84:LEU:HD11	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:137:GLY:HA2	1:BA:38:PHE:CD1	2.48	0.45
1:An:22:VAL:CG1	1:An:23:ASP:N	2.79	0.45
1:An:83:GLU:C	1:An:84:LEU:HD12	2.41	0.45
1:An:107:PHE:HB2	1:An:194:SER:OG	2.16	0.45
1:BA:82:LEU:CD2	1:BA:84:LEU:HD11	2.46	0.45
1:BB:110:GLY:H	1:BC:242:ASN:ND2	2.12	0.45
1:BE:7:ASP:O	1:BE:8:GLY:C	2.59	0.45
1:BI:82:LEU:CD2	1:BI:84:LEU:HD11	2.46	0.45
2:C1:74:SER:O	2:C1:75:HIS:C	2.58	0.45
2:C2:228:ASN:OD1	2:Cg:92:GLY:HA3	2.16	0.45
2:C4:92:GLY:HA3	2:Cu:228:ASN:OD1	2.16	0.45
2:C6:84:PRO:HG2	2:C6:88:LEU:HG	1.97	0.45
2:C7:63:THR:CG2	3:Dm:188:LEU:HD21	2.47	0.45
2:C7:212:THR:HG23	3:Dm:188:LEU:HD22	1.96	0.45
2:C9:36:TYR:CE2	2:C9:130:PRO:CG	2.98	0.45
2:CA:23:ILE:HD12	2:CA:23:ILE:H	1.80	0.45
2:CA:108:TRP:O	2:CA:218:ILE:HD12	2.17	0.45
2:CA:135:THR:HG23	2:CA:145:LEU:HD11	1.99	0.45
2:CE:92:GLY:HA3	2:CJ:228:ASN:OD1	2.16	0.45
2:CE:228:ASN:OD1	2:CJ:92:GLY:HA3	2.16	0.45
2:CI:75:HIS:NE2	3:DI:59:LYS:HB3	2.30	0.45
2:CK:84:PRO:HG3	2:CK:108:TRP:CH2	2.50	0.45
2:CK:228:ASN:OD1	2:Ca:92:GLY:HA3	2.16	0.45
2:CL:152:TYR:HB2	2:CL:197:LEU:HD22	1.97	0.45
2:CN:74:SER:O	2:CN:75:HIS:C	2.58	0.45
2:CO:108:TRP:O	2:CO:218:ILE:HD12	2.16	0.45
2:CQ:115:ASN:HB2	3:Dp:189:THR:HG22	1.97	0.45
2:CS:92:GLY:HA3	2:Cb:228:ASN:OD1	2.16	0.45
2:CT:84:PRO:HG3	2:CT:108:TRP:CH2	2.50	0.45
2:CU:83:LEU:HA	2:CU:84:PRO:HA	1.60	0.45
2:CW:36:TYR:CE2	2:CW:130:PRO:CG	2.98	0.45
2:CW:75:HIS:NE2	3:DW:59:LYS:HB3	2.31	0.45
2:CX:92:GLY:HA3	2:Cq:228:ASN:OD1	2.16	0.45
2:CY:160:HIS:HD1	2:CY:160:HIS:N	2.14	0.45
2:Ca:152:TYR:HB2	2:Ca:197:LEU:HD22	1.97	0.45
2:Cc:92:GLY:HA3	2:Cv:228:ASN:OD1	2.16	0.45
2:Cd:63:THR:CG2	3:D4:188:LEU:HD21	2.47	0.45
2:Cf:108:TRP:O	2:Cf:218:ILE:HD12	2.16	0.45
2:Ch:76:GLY:HA2	2:Ch:197:LEU:HD21	1.97	0.45
2:Cj:129:VAL:HA	2:Cj:130:PRO:HD3	1.78	0.45
2:Cl:95:HIS:CD2	2:Cl:95:HIS:C	2.93	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cn:160:HIS:HE2	3:Dn:51:TYR:HE1	1.64	0.45
2:Cr:13:ARG:HD3	2:Cr:13:ARG:HA	1.72	0.45
2:Cr:180:PRO:HD2	2:Cr:189:HIS:HE1	1.77	0.45
2:Cu:135:THR:HG23	2:Cu:145:LEU:HD11	1.99	0.45
2:Cv:76:GLY:HA2	2:Cv:197:LEU:HD21	1.97	0.45
2:Cw:152:TYR:HB2	2:Cw:197:LEU:HD22	1.97	0.45
3:D0:56:ILE:CG1	3:D0:74:PHE:CE1	2.98	0.45
3:D0:154:PHE:CG	3:D0:155:SER:N	2.84	0.45
3:D0:160:TYR:HD1	3:D0:161:SER:N	2.13	0.45
3:D0:172:ALA:O	3:D0:178:ASN:OD1	2.34	0.45
3:D5:36:VAL:HA	3:D5:37:PRO:HD3	1.53	0.45
3:D6:13:SER:OG	3:D6:15:MET:CE	2.64	0.45
3:D6:85:LEU:O	3:D6:91:ALA:CB	2.64	0.45
3:D7:154:PHE:CG	3:D7:155:SER:N	2.84	0.45
3:D9:13:SER:OG	3:D9:15:MET:CE	2.64	0.45
3:D9:44:ILE:HG23	3:D9:45:ASP:N	2.29	0.45
3:DA:117:LYS:O	3:DA:191:LEU:HD22	2.15	0.45
3:DB:97:PHE:CD1	3:DB:216:LEU:HD23	2.51	0.45
3:DB:154:PHE:CG	3:DB:155:SER:N	2.84	0.45
3:DB:220:VAL:HG12	3:DB:221:ASP:O	2.15	0.45
3:DC:13:SER:OG	3:DC:15:MET:CE	2.64	0.45
3:DC:103:SER:HB3	3:DC:159:PRO:C	2.40	0.45
3:DD:108:PHE:O	3:DD:153:ALA:HA	2.15	0.45
3:DE:103:SER:HB3	3:DE:159:PRO:C	2.40	0.45
3:DE:154:PHE:CG	3:DE:155:SER:N	2.84	0.45
3:DF:85:LEU:O	3:DF:91:ALA:CB	2.65	0.45
3:DG:13:SER:OG	3:DG:15:MET:CE	2.64	0.45
3:DH:154:PHE:CG	3:DH:155:SER:N	2.84	0.45
3:DI:85:LEU:O	3:DI:91:ALA:CB	2.64	0.45
3:DI:122:VAL:HG22	3:DI:123:ALA:N	2.30	0.45
3:DI:195:ASP:HB2	3:DI:198:VAL:HG22	1.98	0.45
3:DL:154:PHE:CG	3:DL:155:SER:N	2.84	0.45
3:DN:85:LEU:O	3:DN:91:ALA:CB	2.64	0.45
3:DO:85:LEU:O	3:DO:91:ALA:CB	2.65	0.45
3:DQ:13:SER:OG	3:DQ:15:MET:CE	2.64	0.45
3:DQ:73:LEU:HB3	3:DQ:185:VAL:O	2.14	0.45
3:DR:13:SER:OG	3:DR:15:MET:CE	2.64	0.45
3:DS:85:LEU:O	3:DS:91:ALA:CB	2.64	0.45
3:DS:172:ALA:O	3:DS:178:ASN:OD1	2.35	0.45
3:DT:85:LEU:O	3:DT:91:ALA:CB	2.65	0.45
3:DU:84:GLU:CD	3:DU:84:GLU:H	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:122:VAL:HG22	3:DV:123:ALA:N	2.30	0.45
3:DV:172:ALA:O	3:DV:178:ASN:OD1	2.35	0.45
3:DX:117:LYS:O	3:DX:191:LEU:HD22	2.15	0.45
3:DX:122:VAL:HG22	3:DX:123:ALA:N	2.30	0.45
3:Da:13:SER:OG	3:Da:15:MET:CE	2.64	0.45
3:Da:85:LEU:O	3:Da:91:ALA:CB	2.64	0.45
3:Da:160:TYR:C	3:Da:160:TYR:CD1	2.94	0.45
3:Da:160:TYR:HD1	3:Da:161:SER:N	2.13	0.45
3:Dc:195:ASP:HB2	3:Dc:198:VAL:HG22	1.98	0.45
3:De:13:SER:OG	3:De:15:MET:CE	2.64	0.45
3:De:220:VAL:HG12	3:De:221:ASP:O	2.15	0.45
3:Df:85:LEU:O	3:Df:91:ALA:CB	2.64	0.45
3:Df:117:LYS:O	3:Df:191:LEU:HD22	2.15	0.45
3:Df:160:TYR:CD1	3:Df:160:TYR:C	2.94	0.45
3:Df:160:TYR:HD1	3:Df:161:SER:N	2.13	0.45
3:Dg:97:PHE:CD1	3:Dg:216:LEU:HD23	2.51	0.45
3:Dh:160:TYR:CD1	3:Dh:160:TYR:C	2.94	0.45
3:Dh:198:VAL:HG23	3:Dh:199:ASN:H	1.81	0.45
3:Di:13:SER:OG	3:Di:15:MET:CE	2.65	0.45
3:Di:172:ALA:O	3:Di:178:ASN:OD1	2.34	0.45
3:Dk:172:ALA:O	3:Dk:178:ASN:OD1	2.34	0.45
3:Dl:103:SER:HB3	3:Dl:159:PRO:C	2.40	0.45
3:Dm:97:PHE:CD1	3:Dm:216:LEU:HD23	2.51	0.45
3:Do:84:GLU:CD	3:Do:84:GLU:H	2.21	0.45
3:Do:85:LEU:O	3:Do:91:ALA:CB	2.65	0.45
3:Dq:85:LEU:O	3:Dq:91:ALA:CB	2.64	0.45
3:Dq:103:SER:HB2	3:Dq:159:PRO:HA	1.95	0.45
3:Dq:154:PHE:CG	3:Dq:155:SER:N	2.84	0.45
3:Dr:120:PHE:HD2	3:Dr:146:TRP:CH2	2.34	0.45
3:Dr:122:VAL:HG22	3:Dr:123:ALA:N	2.30	0.45
3:Ds:85:LEU:O	3:Ds:91:ALA:CB	2.65	0.45
3:Ds:160:TYR:CD1	3:Ds:160:TYR:C	2.94	0.45
3:EA:13:SER:OG	3:EA:15:MET:CE	2.65	0.45
3:EA:122:VAL:HG22	3:EA:123:ALA:N	2.30	0.45
3:EB:25:LEU:HD21	3:EC:15:MET:HG2	1.97	0.45
3:EB:97:PHE:CD1	3:EB:216:LEU:HD23	2.51	0.45
3:EB:117:LYS:O	3:EB:191:LEU:HD22	2.15	0.45
3:ED:120:PHE:HD2	3:ED:146:TRP:CH2	2.34	0.45
3:EE:120:PHE:HD2	3:EE:146:TRP:CH2	2.34	0.45
4:F0:25:PHE:HZ	4:F1:22:VAL:HG11	1.81	0.45
4:F5:25:PHE:HZ	4:F6:22:VAL:HG11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FL:25:PHE:HZ	4:FM:22:VAL:HG11	1.81	0.45
4:FS:25:PHE:HZ	4:FT:22:VAL:HG11	1.81	0.45
4:Fr:25:PHE:HZ	4:F _s :22:VAL:HG11	1.81	0.45
1:A0:82:LEU:CD2	1:A0:84:LEU:HD11	2.46	0.45
1:A1:101:PHE:CD2	1:A1:143:VAL:CG1	2.91	0.45
1:A1:183:THR:HA	1:A1:186:TRP:HB3	1.98	0.45
1:A1:184:TYR:CE2	2:C2:139:ALA:HB2	2.51	0.45
1:A2:45:LEU:HB2	1:A2:202:HIS:HA	1.98	0.45
1:A2:84:LEU:CD2	1:A2:209:LEU:HD11	2.45	0.45
1:A2:170:PHE:CD2	1:A2:222:ARG:CZ	2.87	0.45
1:A4:7:ASP:O	1:A4:8:GLY:C	2.59	0.45
1:A4:107:PHE:HB2	1:A4:194:SER:OG	2.16	0.45
1:A6:183:THR:HA	1:A6:186:TRP:HB3	1.98	0.45
1:A8:82:LEU:CD2	1:A8:84:LEU:HD11	2.46	0.45
1:A8:83:GLU:C	1:A8:84:LEU:HD12	2.41	0.45
1:A9:139:SER:HA	1:A9:140:PRO:HD3	1.62	0.45
1:AB:107:PHE:HB2	1:AB:194:SER:OG	2.17	0.45
1:AC:83:GLU:C	1:AC:84:LEU:HD12	2.41	0.45
1:AD:83:GLU:C	1:AD:84:LEU:HD12	2.41	0.45
1:AE:45:LEU:HB2	1:AE:202:HIS:HA	1.98	0.45
1:AE:46:SER:HB2	1:AE:197:LEU:O	2.15	0.45
1:AE:109:VAL:HG22	1:AE:191:HIS:HD2	1.82	0.45
1:AG:82:LEU:CD2	1:AG:84:LEU:HD11	2.46	0.45
1:AH:7:ASP:O	1:AH:8:GLY:C	2.59	0.45
1:AL:45:LEU:HB2	1:AL:202:HIS:HA	1.98	0.45
1:AL:112:PRO:HB2	3:DM:223:PRO:HB3	1.98	0.45
1:AM:45:LEU:HB2	1:AM:202:HIS:HA	1.98	0.45
1:AN:46:SER:HB2	1:AN:197:LEU:O	2.15	0.45
1:AO:183:THR:HA	1:AO:186:TRP:HB3	1.98	0.45
1:AP:112:PRO:HB2	3:DQ:223:PRO:HB3	1.98	0.45
1:AQ:137:GLY:HA2	1:AR:38:PHE:CD1	2.48	0.45
1:AR:82:LEU:CD2	1:AR:84:LEU:HD11	2.46	0.45
1:AR:183:THR:HA	1:AR:186:TRP:HB3	1.98	0.45
1:AS:82:LEU:CD2	1:AS:84:LEU:HD11	2.46	0.45
1:AS:112:PRO:HB2	3:DP:223:PRO:HB3	1.98	0.45
1:AU:184:TYR:CE2	2:CV:139:ALA:HB2	2.51	0.45
1:AX:45:LEU:HB2	1:AX:202:HIS:HA	1.98	0.45
1:AZ:83:GLU:C	1:AZ:84:LEU:HD12	2.41	0.45
1:Aa:7:ASP:O	1:Aa:8:GLY:C	2.59	0.45
1:Ab:43:LEU:HD23	1:Ab:43:LEU:H	1.81	0.45
1:Ab:183:THR:HA	1:Ab:186:TRP:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:82:LEU:CD2	1:Ad:84:LEU:HD11	2.46	0.45
1:Af:184:TYR:CE2	2:Ch:139:ALA:HB2	2.51	0.45
1:Ag:187:LEU:HD22	1:Ag:188:PRO:N	2.30	0.45
1:Ah:22:VAL:CG1	1:Ah:23:ASP:N	2.79	0.45
1:Ah:107:PHE:HB2	1:Ah:194:SER:OG	2.17	0.45
1:Ai:83:GLU:C	1:Ai:84:LEU:HD12	2.41	0.45
1:Ai:165:ARG:HG2	2:Ck:180:PRO:O	2.16	0.45
1:Ai:184:TYR:CE2	2:Ck:139:ALA:HB2	2.51	0.45
1:Ak:219:TYR:HD2	3:Dm:39:ARG:HB2	1.79	0.45
1:An:165:ARG:HG2	2:Cb:180:PRO:O	2.16	0.45
1:BA:22:VAL:CG1	1:BA:23:ASP:N	2.79	0.45
1:BA:83:GLU:C	1:BA:84:LEU:HD12	2.41	0.45
1:BB:137:GLY:HA2	1:BC:38:PHE:CD1	2.49	0.45
1:BE:82:LEU:CD2	1:BE:84:LEU:HD11	2.46	0.45
1:BE:109:VAL:HG22	1:BE:191:HIS:HD2	1.82	0.45
1:BF:45:LEU:HB2	1:BF:202:HIS:HA	1.98	0.45
1:BF:107:PHE:HB2	1:BF:194:SER:OG	2.16	0.45
1:BH:22:VAL:CG1	1:BH:23:ASP:N	2.79	0.45
1:BI:225:PRO:HA	1:BI:226:PRO:HD2	1.88	0.45
2:C1:92:GLY:HA3	2:CN:228:ASN:OD1	2.16	0.45
2:C1:129:VAL:HA	2:C1:130:PRO:HD3	1.77	0.45
2:C2:108:TRP:O	2:C2:218:ILE:HD12	2.16	0.45
2:C2:152:TYR:HB2	2:C2:197:LEU:HD22	1.97	0.45
2:C3:152:TYR:HB2	2:C3:197:LEU:HD22	1.97	0.45
2:C4:75:HIS:NE2	3:D4:59:LYS:HB3	2.30	0.45
2:C6:13:ARG:HA	2:C6:13:ARG:HD3	1.72	0.45
2:C7:92:GLY:HA3	2:Cl:228:ASN:OD1	2.16	0.45
2:C7:108:TRP:O	2:C7:218:ILE:HD12	2.16	0.45
2:C8:78:ALA:HB1	2:C8:195:VAL:HG12	1.99	0.45
2:C9:84:PRO:HG2	2:C9:88:LEU:HG	1.97	0.45
2:C9:88:LEU:C	2:C9:90:LYS:H	2.23	0.45
2:CA:74:SER:O	2:CA:75:HIS:C	2.58	0.45
2:CA:76:GLY:HA2	2:CA:197:LEU:HD21	1.97	0.45
2:CA:180:PRO:HD2	2:CA:189:HIS:HE1	1.77	0.45
2:CB:108:TRP:O	2:CB:218:ILE:HD12	2.16	0.45
2:CD:88:LEU:C	2:CD:90:LYS:H	2.24	0.45
2:CD:135:THR:HG23	2:CD:145:LEU:HD11	1.98	0.45
2:CG:63:THR:CG2	3:EB:188:LEU:HD21	2.47	0.45
2:CK:135:THR:HG23	2:CK:145:LEU:HD11	1.99	0.45
2:CK:216:ALA:HA	2:CK:217:PRO:HD3	1.78	0.45
2:CM:63:THR:CG2	3:Di:188:LEU:HD21	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CN:63:THR:CG2	3:D2:188:LEU:HD21	2.47	0.45
2:CN:135:THR:HG23	2:CN:145:LEU:HD11	1.99	0.45
2:CQ:78:ALA:HB1	2:CQ:195:VAL:HG12	1.99	0.45
2:CR:108:TRP:O	2:CR:218:ILE:HD12	2.17	0.45
2:CR:212:THR:HG22	2:CR:213:MET:N	2.30	0.45
2:CU:108:TRP:O	2:CU:218:ILE:HD12	2.17	0.45
2:CV:160:HIS:HD1	2:CV:160:HIS:N	2.14	0.45
2:CW:152:TYR:HB2	2:CW:197:LEU:HD22	1.98	0.45
2:CZ:84:PRO:HG3	2:CZ:108:TRP:CH2	2.50	0.45
2:CZ:108:TRP:O	2:CZ:218:ILE:HD12	2.16	0.45
2:Cd:135:THR:HG23	2:Cd:145:LEU:HD11	1.98	0.45
2:Ce:13:ARG:HD3	2:Ce:13:ARG:HA	1.72	0.45
2:Cf:23:ILE:HD12	2:Cf:23:ILE:H	1.80	0.45
2:Ci:65:LYS:CB	3:Dj:135:ARG:HH21	2.29	0.45
2:Ci:75:HIS:NE2	3:Di:59:LYS:HB3	2.30	0.45
2:Cj:108:TRP:O	2:Cj:218:ILE:HD12	2.17	0.45
2:Cl:84:PRO:HG3	2:Cl:108:TRP:CH2	2.50	0.45
2:Cm:108:TRP:O	2:Cm:218:ILE:HD12	2.17	0.45
2:Cm:152:TYR:HB2	2:Cm:197:LEU:HD22	1.98	0.45
2:Cn:135:THR:HG23	2:Cn:145:LEU:HD11	1.99	0.45
2:Cp:65:LYS:CB	3:D0:135:ARG:HH21	2.29	0.45
2:Cr:152:TYR:HB2	2:Cr:197:LEU:HD22	1.98	0.45
2:Cu:75:HIS:NE2	3:EB:59:LYS:HB3	2.30	0.45
2:Cw:160:HIS:HD1	2:Cw:160:HIS:N	2.14	0.45
3:D0:117:LYS:O	3:D0:191:LEU:HD22	2.15	0.45
3:D1:172:ALA:O	3:D1:178:ASN:OD1	2.35	0.45
3:D2:97:PHE:CD1	3:D2:216:LEU:HD23	2.51	0.45
3:D2:195:ASP:HB2	3:D2:198:VAL:HG22	1.98	0.45
3:D3:220:VAL:HG12	3:D3:221:ASP:O	2.15	0.45
3:D4:19:PRO:HG3	4:F4:17:ASN:ND2	2.26	0.45
3:D6:56:ILE:CG1	3:D6:74:PHE:CE1	2.98	0.45
3:D6:97:PHE:CD1	3:D6:216:LEU:HD23	2.51	0.45
3:D6:120:PHE:HD2	3:D6:146:TRP:CH2	2.34	0.45
3:D6:172:ALA:O	3:D6:178:ASN:OD1	2.34	0.45
3:D6:195:ASP:HB2	3:D6:198:VAL:HG22	1.98	0.45
3:D6:220:VAL:HG12	3:D6:221:ASP:O	2.15	0.45
3:D7:13:SER:OG	3:D7:15:MET:CE	2.64	0.45
3:D8:122:VAL:HG22	3:D8:123:ALA:N	2.30	0.45
3:D9:15:MET:HG2	3:Dd:25:LEU:HD21	1.97	0.45
3:DA:85:LEU:O	3:DA:91:ALA:CB	2.64	0.45
3:DD:85:LEU:O	3:DD:91:ALA:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:117:LYS:O	3:DD:191:LEU:HD22	2.15	0.45
3:DD:220:VAL:HG12	3:DD:221:ASP:O	2.15	0.45
3:DE:13:SER:OG	3:DE:15:MET:CE	2.64	0.45
3:DE:172:ALA:O	3:DE:178:ASN:OD1	2.35	0.45
3:DG:154:PHE:CG	3:DG:155:SER:N	2.84	0.45
3:DH:85:LEU:O	3:DH:91:ALA:CB	2.64	0.45
3:DH:172:ALA:O	3:DH:178:ASN:OD1	2.34	0.45
3:DK:198:VAL:HG23	3:DK:199:ASN:H	1.82	0.45
3:DL:117:LYS:O	3:DL:191:LEU:HD22	2.15	0.45
3:DO:117:LYS:O	3:DO:191:LEU:HD22	2.15	0.45
3:DO:172:ALA:O	3:DO:178:ASN:OD1	2.34	0.45
3:DP:103:SER:HB3	3:DP:159:PRO:CA	2.35	0.45
3:DP:120:PHE:HD2	3:DP:146:TRP:CH2	2.34	0.45
3:DP:122:VAL:HA	3:DP:185:VAL:HA	1.97	0.45
3:DQ:25:LEU:HD21	3:DR:15:MET:HG2	1.97	0.45
3:DR:220:VAL:HG12	3:DR:221:ASP:O	2.15	0.45
3:DT:154:PHE:CG	3:DT:155:SER:N	2.84	0.45
3:DT:195:ASP:HB2	3:DT:198:VAL:HG22	1.98	0.45
3:DX:220:VAL:HG12	3:DX:221:ASP:O	2.15	0.45
3:DY:97:PHE:CD1	3:DY:216:LEU:HD23	2.51	0.45
3:DY:103:SER:HB3	3:DY:159:PRO:C	2.40	0.45
3:DY:172:ALA:O	3:DY:178:ASN:OD1	2.35	0.45
3:DZ:13:SER:OG	3:DZ:15:MET:CE	2.64	0.45
3:DZ:97:PHE:CD1	3:DZ:216:LEU:HD23	2.51	0.45
3:Da:120:PHE:HD2	3:Da:146:TRP:CH2	2.34	0.45
3:Da:172:ALA:O	3:Da:178:ASN:OD1	2.35	0.45
3:Db:97:PHE:CD1	3:Db:216:LEU:HD23	2.51	0.45
3:Dc:56:ILE:CG1	3:Dc:74:PHE:CE1	2.98	0.45
3:Dc:85:LEU:O	3:Dc:91:ALA:CB	2.64	0.45
3:Dd:13:SER:OG	3:Dd:15:MET:CE	2.64	0.45
3:Dd:62:PHE:CE2	3:Dd:204:VAL:HG11	2.50	0.45
3:Dd:85:LEU:O	3:Dd:91:ALA:CB	2.65	0.45
3:De:198:VAL:HG23	3:De:199:ASN:H	1.82	0.45
3:Df:13:SER:OG	3:Df:15:MET:CE	2.64	0.45
3:Df:172:ALA:O	3:Df:178:ASN:OD1	2.34	0.45
3:Dh:85:LEU:O	3:Dh:91:ALA:CB	2.65	0.45
3:Di:85:LEU:O	3:Di:91:ALA:CB	2.65	0.45
3:Dj:36:VAL:HA	3:Dj:37:PRO:HD3	1.53	0.45
3:Dk:154:PHE:CG	3:Dk:155:SER:N	2.84	0.45
3:Dk:160:TYR:CD1	3:Dk:160:TYR:C	2.94	0.45
3:Dl:122:VAL:HG22	3:Dl:123:ALA:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Do:13:SER:OG	3:Do:15:MET:CE	2.64	0.45
3:Dp:103:SER:HB3	3:Dp:159:PRO:C	2.40	0.45
3:Dp:108:PHE:O	3:Dp:153:ALA:HA	2.15	0.45
3:Dp:172:ALA:O	3:Dp:178:ASN:OD1	2.35	0.45
3:Dp:195:ASP:HB2	3:Dp:198:VAL:HG22	1.98	0.45
3:Dr:97:PHE:CD1	3:Dr:216:LEU:HD23	2.51	0.45
3:Dr:154:PHE:CG	3:Dr:155:SER:N	2.84	0.45
3:Dr:172:ALA:O	3:Dr:178:ASN:OD1	2.34	0.45
3:Ds:13:SER:OG	3:Ds:15:MET:CE	2.64	0.45
3:Ds:44:ILE:HG23	3:Ds:45:ASP:N	2.29	0.45
3:EA:154:PHE:CG	3:EA:155:SER:N	2.84	0.45
3:ED:172:ALA:O	3:ED:178:ASN:OD1	2.35	0.45
3:ED:198:VAL:HG23	3:ED:199:ASN:H	1.81	0.45
4:F4:25:PHE:HZ	4:F5:22:VAL:HG11	1.81	0.45
4:FF:22:VAL:HG11	4:FJ:25:PHE:HZ	1.81	0.45
4:FX:32:ASN:HB3	4:FX:33:SER:H	1.58	0.45
4:Fe:22:VAL:HG11	4:Fi:25:PHE:HZ	1.81	0.45
4:Fr:32:ASN:HB3	4:Fr:33:SER:H	1.58	0.45
4:Fx:32:ASN:HB3	4:Fx:33:SER:H	1.58	0.45
1:A0:7:ASP:O	1:A0:8:GLY:C	2.59	0.45
1:A1:7:ASP:O	1:A1:8:GLY:C	2.59	0.45
1:A2:7:ASP:O	1:A2:8:GLY:C	2.59	0.45
1:A2:107:PHE:HB2	1:A2:194:SER:OG	2.17	0.45
1:A4:183:THR:HA	1:A4:186:TRP:HB3	1.98	0.45
1:A6:83:GLU:C	1:A6:84:LEU:HD12	2.41	0.45
1:A7:112:PRO:HB2	3:D4:223:PRO:HB3	1.98	0.45
1:A7:165:ARG:HG2	2:C8:180:PRO:O	2.16	0.45
1:AB:7:ASP:O	1:AB:8:GLY:C	2.59	0.45
1:AB:184:TYR:CE2	2:CB:139:ALA:HB2	2.51	0.45
1:AC:184:TYR:CE2	2:CC:139:ALA:HB2	2.51	0.45
1:AD:107:PHE:HB2	1:AD:194:SER:OG	2.16	0.45
1:AF:46:SER:HB2	1:AF:197:LEU:O	2.15	0.45
1:AF:56:VAL:HG13	1:AF:193:GLY:O	2.17	0.45
1:AF:107:PHE:HB2	1:AF:194:SER:OG	2.16	0.45
1:AG:46:SER:HB2	1:AG:197:LEU:O	2.15	0.45
1:AG:146:ILE:HD13	1:AG:146:ILE:HG21	1.74	0.45
1:AG:219:TYR:HD2	3:DG:39:ARG:HB2	1.79	0.45
1:AI:183:THR:HA	1:AI:186:TRP:HB3	1.98	0.45
1:AN:84:LEU:CD2	1:AN:209:LEU:HD11	2.45	0.45
1:AN:184:TYR:CE2	2:CN:139:ALA:HB2	2.51	0.45
1:AO:101:PHE:CD2	1:AO:143:VAL:HG11	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:82:LEU:CD2	1:AP:84:LEU:HD11	2.46	0.45
1:AP:137:GLY:HA2	1:AQ:38:PHE:CD1	2.48	0.45
1:AP:183:THR:HA	1:AP:186:TRP:HB3	1.98	0.45
1:AQ:107:PHE:HB2	1:AQ:194:SER:OG	2.17	0.45
1:AQ:109:VAL:HG22	1:AQ:191:HIS:HD2	1.82	0.45
1:AQ:171:TYR:N	1:AQ:185:ASN:OD1	2.45	0.45
1:AR:83:GLU:C	1:AR:84:LEU:HD12	2.41	0.45
1:AR:110:GLY:H	1:Ao:242:ASN:ND2	2.12	0.45
1:AT:165:ARG:HG2	2:CU:180:PRO:O	2.16	0.45
1:AT:170:PHE:CD2	1:AT:222:ARG:CZ	2.87	0.45
1:AU:109:VAL:HG22	1:AU:191:HIS:HD2	1.82	0.45
1:AY:146:ILE:HD13	1:AY:146:ILE:HG21	1.74	0.45
1:AZ:22:VAL:CG1	1:AZ:23:ASP:N	2.79	0.45
1:Aa:38:PHE:CD1	1:An:137:GLY:HA2	2.48	0.45
1:Ae:84:LEU:CD2	1:Ae:209:LEU:HD11	2.45	0.45
1:Af:22:VAL:CG1	1:Af:23:ASP:N	2.79	0.45
1:Ag:22:VAL:CG1	1:Ag:23:ASP:N	2.79	0.45
1:Aj:165:ARG:HG2	2:Cl:180:PRO:O	2.16	0.45
1:Aj:183:THR:HA	1:Aj:186:TRP:HB3	1.98	0.45
1:Ak:82:LEU:CD2	1:Ak:84:LEU:HD11	2.46	0.45
1:Am:110:GLY:H	1:BA:242:ASN:ND2	2.12	0.45
1:Am:183:THR:HA	1:Am:186:TRP:HB3	1.98	0.45
1:An:109:VAL:HG22	1:An:191:HIS:HD2	1.82	0.45
1:Ao:176:ALA:C	1:Ao:178:THR:H	2.22	0.45
1:BA:107:PHE:HB2	1:BA:194:SER:OG	2.16	0.45
1:BA:139:SER:HA	1:BA:140:PRO:HD3	1.62	0.45
1:BC:83:GLU:C	1:BC:84:LEU:HD12	2.41	0.45
1:BF:56:VAL:HG13	1:BF:193:GLY:O	2.17	0.45
1:BF:184:TYR:CE2	2:Cu:139:ALA:HB2	2.51	0.45
1:BG:101:PHE:CD2	1:BG:143:VAL:HG11	2.44	0.45
2:C0:83:LEU:HA	2:C0:84:PRO:HA	1.60	0.45
2:C0:228:ASN:OD1	2:CP:92:GLY:HA3	2.16	0.45
2:C2:13:ARG:HA	2:C2:13:ARG:HD3	1.72	0.45
2:C2:46:THR:CG2	3:D3:165:ASP:HA	2.38	0.45
2:C2:95:HIS:CD2	2:C2:95:HIS:C	2.93	0.45
2:C5:84:PRO:HG2	2:C5:88:LEU:HG	1.97	0.45
2:C6:78:ALA:HB1	2:C6:195:VAL:HG12	1.99	0.45
2:C6:84:PRO:HG3	2:C6:108:TRP:CH2	2.50	0.45
2:C8:228:ASN:OD1	2:Cd:92:GLY:HA3	2.16	0.45
2:CA:216:ALA:HA	2:CA:217:PRO:HD3	1.78	0.45
2:CE:84:PRO:HG2	2:CE:88:LEU:HG	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:23:ILE:HD12	2:CF:23:ILE:H	1.80	0.45
2:CH:92:GLY:HA3	2:Cr:228:ASN:OD1	2.16	0.45
2:CI:88:LEU:C	2:CI:90:LYS:H	2.23	0.45
2:CL:23:ILE:HD12	2:CL:23:ILE:H	1.80	0.45
2:CM:23:ILE:HD12	2:CM:23:ILE:H	1.80	0.45
2:CM:75:HIS:HA	2:CM:198:ILE:O	2.17	0.45
2:CP:135:THR:HG23	2:CP:145:LEU:HD11	1.99	0.45
2:CR:135:THR:HG23	2:CR:145:LEU:HD11	1.99	0.45
2:CU:134:HIS:HB3	2:CU:135:THR:H	1.47	0.45
2:CW:135:THR:HG23	2:CW:145:LEU:HD11	1.99	0.45
2:CY:23:ILE:HD12	2:CY:23:ILE:H	1.80	0.45
2:CZ:84:PRO:HG2	2:CZ:88:LEU:HG	1.97	0.45
2:CZ:228:ASN:OD1	2:Cp:92:GLY:HA3	2.16	0.45
2:Cb:74:SER:O	2:Cb:75:HIS:C	2.58	0.45
2:Cb:75:HIS:HA	2:Cb:198:ILE:O	2.17	0.45
2:Cc:76:GLY:HA2	2:Cc:197:LEU:HD21	1.97	0.45
2:Ce:63:THR:CG2	3:DC:188:LEU:HD21	2.47	0.45
2:Ce:207:GLN:HB3	3:DC:196:ILE:CG2	2.45	0.45
2:Cf:49:ASP:HA	2:Cf:50:PRO:HD2	1.80	0.45
2:Cg:135:THR:HG23	2:Cg:145:LEU:HD11	1.98	0.45
2:Ci:108:TRP:O	2:Ci:218:ILE:HD12	2.16	0.45
2:Cv:129:VAL:HA	2:Cv:130:PRO:HD3	1.77	0.45
2:Cw:212:THR:HG23	3:DS:188:LEU:HD22	1.96	0.45
2:Cx:135:THR:HG23	2:Cx:145:LEU:HD11	1.99	0.45
3:D1:13:SER:OG	3:D1:15:MET:CE	2.64	0.45
3:D2:154:PHE:CG	3:D2:155:SER:N	2.84	0.45
3:D3:122:VAL:HG22	3:D3:123:ALA:N	2.30	0.45
3:D4:101:ARG:HG2	3:D4:101:ARG:O	2.17	0.45
3:D7:19:PRO:HB3	4:F6:30:TYR:CD2	2.52	0.45
3:D7:85:LEU:O	3:D7:91:ALA:CB	2.65	0.45
3:D7:117:LYS:O	3:D7:191:LEU:HD22	2.15	0.45
3:D7:122:VAL:HA	3:D7:185:VAL:HA	1.97	0.45
3:D7:172:ALA:O	3:D7:178:ASN:OD1	2.35	0.45
3:D8:103:SER:HB2	3:D8:159:PRO:HA	1.95	0.45
3:D9:108:PHE:O	3:D9:153:ALA:HA	2.15	0.45
3:DA:122:VAL:HG22	3:DA:123:ALA:N	2.30	0.45
3:DA:172:ALA:O	3:DA:178:ASN:OD1	2.34	0.45
3:DB:85:LEU:O	3:DB:91:ALA:CB	2.65	0.45
3:DB:122:VAL:HG22	3:DB:123:ALA:N	2.30	0.45
3:DF:172:ALA:O	3:DF:178:ASN:OD1	2.35	0.45
3:DF:195:ASP:HB2	3:DF:198:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DG:56:ILE:CG1	3:DG:74:PHE:CE1	2.98	0.45
3:DG:103:SER:HB3	3:DG:159:PRO:CA	2.35	0.45
3:DH:97:PHE:CD1	3:DH:216:LEU:HD23	2.51	0.45
3:DI:13:SER:OG	3:DI:15:MET:CE	2.64	0.45
3:DI:117:LYS:O	3:DI:191:LEU:HD22	2.15	0.45
3:DL:13:SER:OG	3:DL:15:MET:CE	2.64	0.45
3:DN:19:PRO:HB3	4:FM:30:TYR:CD2	2.52	0.45
3:DN:97:PHE:CD1	3:DN:216:LEU:HD23	2.51	0.45
3:DN:172:ALA:O	3:DN:178:ASN:OD1	2.34	0.45
3:DO:220:VAL:HG12	3:DO:221:ASP:O	2.15	0.45
3:DQ:56:ILE:CG1	3:DQ:74:PHE:CE1	2.98	0.45
3:DR:8:VAL:CG1	3:DR:9:PRO:HD2	2.39	0.45
3:DS:97:PHE:CD1	3:DS:216:LEU:HD23	2.51	0.45
3:DS:154:PHE:CG	3:DS:155:SER:N	2.85	0.45
3:DV:13:SER:OG	3:DV:15:MET:CE	2.64	0.45
3:DV:85:LEU:O	3:DV:91:ALA:CB	2.64	0.45
3:DW:85:LEU:O	3:DW:91:ALA:CB	2.65	0.45
3:DW:97:PHE:CD1	3:DW:216:LEU:HD23	2.51	0.45
3:DW:220:VAL:HG12	3:DW:221:ASP:O	2.15	0.45
3:DX:101:ARG:O	3:DX:101:ARG:HG2	2.17	0.45
3:DX:154:PHE:CG	3:DX:155:SER:N	2.84	0.45
3:DY:195:ASP:HB2	3:DY:198:VAL:HG22	1.98	0.45
3:DZ:56:ILE:CG1	3:DZ:74:PHE:CE1	2.98	0.45
3:Db:85:LEU:O	3:Db:91:ALA:CB	2.65	0.45
3:De:85:LEU:O	3:De:91:ALA:CB	2.64	0.45
3:De:160:TYR:CD1	3:De:160:TYR:C	2.94	0.45
3:Df:97:PHE:CD1	3:Df:216:LEU:HD23	2.51	0.45
3:Dj:154:PHE:CG	3:Dj:155:SER:N	2.84	0.45
3:Dj:172:ALA:O	3:Dj:178:ASN:OD1	2.34	0.45
3:Dj:195:ASP:HB2	3:Dj:198:VAL:HG22	1.98	0.45
3:Dk:13:SER:OG	3:Dk:15:MET:CE	2.64	0.45
3:Dk:56:ILE:CG1	3:Dk:74:PHE:CE1	2.98	0.45
3:DI:172:ALA:O	3:DI:178:ASN:OD1	2.34	0.45
3:Dr:13:SER:OG	3:Dr:15:MET:CE	2.64	0.45
3:Ds:97:PHE:CD1	3:Ds:216:LEU:HD23	2.51	0.45
3:Ds:110:PHE:HB3	3:Ds:148:VAL:HG11	1.96	0.45
3:Ds:120:PHE:HD2	3:Ds:146:TRP:CH2	2.34	0.45
3:Ds:198:VAL:HG23	3:Ds:199:ASN:H	1.82	0.45
3:EA:62:PHE:CE2	3:EA:204:VAL:HG11	2.50	0.45
3:EE:154:PHE:CG	3:EE:155:SER:N	2.84	0.45
4:F1:25:PHE:HZ	4:F2:22:VAL:HG11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FH:16:GLY:O	4:FH:18:SER:N	2.50	0.45
4:FK:22:VAL:HG11	4:FO:25:PHE:HZ	1.81	0.45
4:FP:22:VAL:HG11	4:FT:25:PHE:HZ	1.81	0.45
4:Fb:16:GLY:O	4:Fb:18:SER:N	2.50	0.45
4:Fc:16:GLY:O	4:Fc:18:SER:N	2.50	0.45
4:Fe:16:GLY:O	4:Fe:18:SER:N	2.50	0.45
4:Fe:25:PHE:HZ	4:Ff:22:VAL:HG11	1.81	0.45
4:Fp:25:PHE:HZ	4:Fq:22:VAL:HG11	1.81	0.45
1:A0:184:TYR:CE2	2:C1:139:ALA:HB2	2.51	0.45
1:A2:110:GLY:H	1:AY:242:ASN:ND2	2.12	0.45
1:A2:183:THR:HA	1:A2:186:TRP:HB3	1.98	0.45
1:A3:82:LEU:CD2	1:A3:84:LEU:HD11	2.46	0.45
1:A3:165:ARG:HG2	2:C4:180:PRO:O	2.16	0.45
1:A4:184:TYR:CE2	2:C5:139:ALA:HB2	2.51	0.45
1:A5:22:VAL:CG1	1:A5:23:ASP:N	2.79	0.45
1:A5:56:VAL:HG13	1:A5:193:GLY:O	2.17	0.45
1:A5:103:TRP:HB2	1:A5:198:THR:HG23	1.96	0.45
1:A5:112:PRO:HB2	3:D7:223:PRO:HB3	1.97	0.45
1:A6:103:TRP:HB2	1:A6:198:THR:HG23	1.96	0.45
1:A7:107:PHE:HB2	1:A7:194:SER:OG	2.17	0.45
1:A9:83:GLU:C	1:A9:84:LEU:HD12	2.41	0.45
1:AA:83:GLU:C	1:AA:84:LEU:HD12	2.41	0.45
1:AB:22:VAL:CG1	1:AB:23:ASP:N	2.79	0.45
1:AB:83:GLU:C	1:AB:84:LEU:HD12	2.41	0.45
1:AB:101:PHE:CD2	1:AB:143:VAL:CG1	2.91	0.45
1:AB:110:GLY:H	1:AC:242:ASN:ND2	2.12	0.45
1:AD:183:THR:HA	1:AD:186:TRP:HB3	1.98	0.45
1:AE:22:VAL:CG1	1:AE:23:ASP:N	2.79	0.45
1:AF:83:GLU:C	1:AF:84:LEU:HD12	2.41	0.45
1:AF:101:PHE:CD2	1:AF:143:VAL:HG11	2.44	0.45
1:AG:22:VAL:CG1	1:AG:23:ASP:N	2.79	0.45
1:AG:83:GLU:C	1:AG:84:LEU:HD12	2.41	0.45
1:AG:184:TYR:CE2	2:CG:139:ALA:HB2	2.51	0.45
1:AH:82:LEU:CD2	1:AH:84:LEU:HD11	2.46	0.45
1:AH:112:PRO:HB2	3:DI:223:PRO:HB3	1.98	0.45
1:AH:143:VAL:H	3:DI:14:PHE:CB	2.28	0.45
1:AJ:22:VAL:CG1	1:AJ:23:ASP:N	2.79	0.45
1:AJ:183:THR:HA	1:AJ:186:TRP:HB3	1.98	0.45
1:AK:112:PRO:HB2	3:DL:223:PRO:HB3	1.98	0.45
1:AK:183:THR:HA	1:AK:186:TRP:HB3	1.98	0.45
1:AL:7:ASP:O	1:AL:8:GLY:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:82:LEU:CD2	1:AL:84:LEU:HD11	2.46	0.45
1:AL:83:GLU:C	1:AL:84:LEU:HD12	2.41	0.45
1:AM:143:VAL:H	3:DN:14:PHE:CB	2.28	0.45
1:AP:242:ASN:ND2	1:AS:110:GLY:H	2.12	0.45
1:AQ:183:THR:HA	1:AQ:186:TRP:HB3	1.98	0.45
1:AT:22:VAL:CG1	1:AT:23:ASP:N	2.79	0.45
1:AT:107:PHE:HB2	1:AT:194:SER:OG	2.16	0.45
1:AT:225:PRO:HA	1:AT:226:PRO:HD2	1.88	0.45
1:AW:101:PHE:CD2	1:AW:143:VAL:CG1	2.91	0.45
1:AX:82:LEU:CD2	1:AX:84:LEU:HD11	2.46	0.45
1:AY:43:LEU:N	1:AY:43:LEU:CD2	2.74	0.45
1:AZ:45:LEU:HB2	1:AZ:202:HIS:HA	1.98	0.45
1:Aa:43:LEU:HD23	1:Aa:43:LEU:H	1.81	0.45
1:Ab:165:ARG:HG2	2:Cd:180:PRO:O	2.16	0.45
1:Ab:219:TYR:HD2	3:Dd:39:ARG:HB2	1.79	0.45
1:Ac:139:SER:HA	1:Ac:140:PRO:HD3	1.62	0.45
1:Ad:143:VAL:H	3:Dg:14:PHE:CB	2.28	0.45
1:Ad:176:ALA:C	1:Ad:178:THR:H	2.22	0.45
1:Ae:165:ARG:HG2	2:Cg:180:PRO:O	2.16	0.45
1:Af:199:SER:C	1:Af:201:ALA:H	2.25	0.45
1:Ah:110:GLY:H	1:Ai:242:ASN:ND2	2.12	0.45
1:Al:183:THR:HA	1:Al:186:TRP:HB3	1.99	0.45
1:Am:112:PRO:HB2	3:Dp:223:PRO:HB3	1.98	0.45
1:BC:56:VAL:HG13	1:BC:193:GLY:O	2.17	0.45
1:BC:101:PHE:O	1:BC:199:SER:OG	2.33	0.45
1:BD:7:ASP:O	1:BD:8:GLY:C	2.59	0.45
1:BD:56:VAL:HG13	1:BD:193:GLY:O	2.17	0.45
1:BE:87:GLN:O	1:BE:88:PHE:CB	2.62	0.45
1:BF:83:GLU:C	1:BF:84:LEU:HD12	2.41	0.45
1:BG:183:THR:HA	1:BG:186:TRP:HB3	1.98	0.45
1:BI:83:GLU:C	1:BI:84:LEU:HD12	2.41	0.45
2:C0:23:ILE:HD12	2:C0:23:ILE:H	1.80	0.45
2:C1:152:TYR:HB2	2:C1:197:LEU:HD22	1.98	0.45
2:C6:92:GLY:HA3	2:CD:228:ASN:OD1	2.16	0.45
2:C8:92:GLY:HA3	2:Cd:228:ASN:OD1	2.16	0.45
2:C8:160:HIS:HE2	3:D8:51:TYR:HE1	1.64	0.45
2:C9:75:HIS:HA	2:C9:198:ILE:O	2.17	0.45
2:CA:95:HIS:CD2	2:CA:95:HIS:C	2.92	0.45
2:CB:63:THR:CG2	3:Df:188:LEU:HD21	2.47	0.45
2:CB:228:ASN:OD1	2:Ce:92:GLY:HA3	2.16	0.45
2:CE:108:TRP:O	2:CE:218:ILE:HD12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:135:THR:HG23	2:CF:145:LEU:HD11	1.99	0.45
2:CF:152:TYR:HB2	2:CF:197:LEU:HD22	1.98	0.45
2:CH:78:ALA:HB1	2:CH:195:VAL:HG12	1.99	0.45
2:CL:46:THR:CG2	3:DM:165:ASP:HA	2.38	0.45
2:CL:108:TRP:O	2:CL:218:ILE:HD12	2.17	0.45
2:CQ:88:LEU:C	2:CQ:90:LYS:H	2.23	0.45
2:CS:228:ASN:OD1	2:Cb:92:GLY:HA3	2.16	0.45
2:CU:23:ILE:HD12	2:CU:23:ILE:H	1.80	0.45
2:CU:78:ALA:HB1	2:CU:195:VAL:HG12	1.99	0.45
2:CV:152:TYR:HB2	2:CV:197:LEU:HD22	1.98	0.45
2:CW:180:PRO:HD2	2:CW:189:HIS:HE1	1.76	0.45
2:CX:23:ILE:HD12	2:CX:23:ILE:H	1.80	0.45
2:CY:76:GLY:HA2	2:CY:197:LEU:HD21	1.97	0.45
2:CY:135:THR:HG23	2:CY:145:LEU:HD11	1.99	0.45
2:Cb:63:THR:CG2	3:DT:188:LEU:HD21	2.47	0.45
2:Cc:84:PRO:HG2	2:Cc:88:LEU:HG	1.97	0.45
2:Ce:75:HIS:HA	2:Ce:198:ILE:O	2.17	0.45
2:Ch:23:ILE:HD12	2:Ch:23:ILE:H	1.80	0.45
2:Ch:78:ALA:HB1	2:Ch:195:VAL:HG12	1.99	0.45
2:Ch:88:LEU:C	2:Ch:90:LYS:H	2.23	0.45
2:Cj:78:ALA:HB1	2:Cj:195:VAL:HG12	1.99	0.45
2:Ck:63:THR:CG2	3:Da:188:LEU:HD21	2.47	0.45
2:Ck:95:HIS:CD2	2:Ck:95:HIS:C	2.93	0.45
2:Ck:160:HIS:HE2	3:Dk:51:TYR:HE1	1.64	0.45
2:Cl:23:ILE:HD12	2:Cl:23:ILE:H	1.80	0.45
2:Co:49:ASP:HA	2:Co:50:PRO:HD2	1.80	0.45
2:Cp:75:HIS:HA	2:Cp:198:ILE:O	2.17	0.45
2:Cp:160:HIS:HE2	3:Dp:51:TYR:HE1	1.64	0.45
2:Cr:78:ALA:HB1	2:Cr:195:VAL:HG12	1.99	0.45
2:Cr:83:LEU:HA	2:Cr:84:PRO:HA	1.60	0.45
2:Cr:135:THR:HG23	2:Cr:145:LEU:HD11	1.99	0.45
2:Cs:75:HIS:NE2	3:Ds:59:LYS:HB3	2.31	0.45
2:Ct:84:PRO:HG2	2:Ct:88:LEU:HG	1.97	0.45
2:Cv:88:LEU:C	2:Cv:90:LYS:H	2.23	0.45
2:Cw:84:PRO:HG3	2:Cw:108:TRP:CH2	2.50	0.45
2:Cw:108:TRP:O	2:Cw:218:ILE:HD12	2.17	0.45
2:Cx:63:THR:CG2	3:Do:188:LEU:HD21	2.47	0.45
2:Cx:134:HIS:HB3	2:Cx:135:THR:H	1.47	0.45
3:D0:120:PHE:HD2	3:D0:146:TRP:CH2	2.34	0.45
3:D0:198:VAL:HG23	3:D0:199:ASN:H	1.82	0.45
3:D2:77:ASP:O	3:D2:79:SER:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:110:PHE:HB3	3:D2:148:VAL:HG11	1.96	0.45
3:D3:19:PRO:HB3	4:F2:30:TYR:CD2	2.52	0.45
3:D4:19:PRO:HB3	4:F8:30:TYR:CD2	2.52	0.45
3:D4:25:LEU:HD21	3:D5:15:MET:HG2	1.97	0.45
3:D5:56:ILE:CG1	3:D5:74:PHE:CE1	2.98	0.45
3:D5:195:ASP:HB2	3:D5:198:VAL:HG22	1.98	0.45
3:D6:198:VAL:HG23	3:D6:199:ASN:H	1.82	0.45
3:D8:154:PHE:CG	3:D8:155:SER:N	2.84	0.45
3:DB:101:ARG:O	3:DB:101:ARG:HG2	2.17	0.45
3:DC:120:PHE:HD2	3:DC:146:TRP:CH2	2.34	0.45
3:DC:172:ALA:O	3:DC:178:ASN:OD1	2.34	0.45
3:DD:172:ALA:O	3:DD:178:ASN:OD1	2.34	0.45
3:DI:103:SER:HB3	3:DI:159:PRO:C	2.40	0.45
3:DJ:97:PHE:CD1	3:DJ:216:LEU:HD23	2.51	0.45
3:DJ:172:ALA:O	3:DJ:178:ASN:OD1	2.34	0.45
3:DL:120:PHE:HD2	3:DL:146:TRP:CH2	2.34	0.45
3:DM:13:SER:OG	3:DM:15:MET:CE	2.64	0.45
3:DM:108:PHE:O	3:DM:153:ALA:HA	2.15	0.45
3:DO:43:PHE:O	3:DO:44:ILE:C	2.60	0.45
3:DO:120:PHE:HD2	3:DO:146:TRP:CH2	2.34	0.45
3:DO:154:PHE:CG	3:DO:155:SER:N	2.84	0.45
3:DO:160:TYR:CD1	3:DO:160:TYR:C	2.94	0.45
3:DR:36:VAL:HA	3:DR:37:PRO:HD3	1.53	0.45
3:DS:110:PHE:HB3	3:DS:148:VAL:HG11	1.96	0.45
3:DU:13:SER:OG	3:DU:15:MET:CE	2.64	0.45
3:DU:25:LEU:HD21	3:DV:15:MET:HG2	1.97	0.45
3:DU:108:PHE:O	3:DU:153:ALA:HA	2.15	0.45
3:DV:97:PHE:CD1	3:DV:216:LEU:HD23	2.51	0.45
3:DY:103:SER:HB2	3:DY:159:PRO:HA	1.95	0.45
3:Db:108:PHE:O	3:Db:153:ALA:HA	2.15	0.45
3:Dc:97:PHE:CD1	3:Dc:216:LEU:HD23	2.51	0.45
3:Dd:77:ASP:O	3:Dd:79:SER:N	2.50	0.45
3:Dd:154:PHE:CG	3:Dd:155:SER:N	2.84	0.45
3:De:77:ASP:O	3:De:79:SER:N	2.50	0.45
3:De:154:PHE:CG	3:De:155:SER:N	2.84	0.45
3:Dg:77:ASP:O	3:Dg:79:SER:N	2.50	0.45
3:Dh:13:SER:OG	3:Dh:15:MET:CE	2.64	0.45
3:Dh:122:VAL:HA	3:Dh:185:VAL:HA	1.97	0.45
3:Dl:122:VAL:HA	3:Dl:185:VAL:HA	1.97	0.45
3:Dn:13:SER:OG	3:Dn:15:MET:CE	2.64	0.45
3:Do:120:PHE:HD2	3:Do:146:TRP:CH2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dp:77:ASP:O	3:Dp:79:SER:N	2.50	0.45
3:Dq:97:PHE:CD1	3:Dq:216:LEU:HD23	2.51	0.45
3:Dr:85:LEU:O	3:Dr:91:ALA:CB	2.65	0.45
3:EA:195:ASP:HB2	3:EA:198:VAL:HG22	1.98	0.45
3:EC:198:VAL:HG23	3:EC:199:ASN:H	1.82	0.45
3:ED:154:PHE:CG	3:ED:155:SER:N	2.84	0.45
3:EE:19:PRO:HB3	4:Fw:30:TYR:CD2	2.52	0.45
3:EE:85:LEU:O	3:EE:91:ALA:CB	2.64	0.45
4:F7:16:GLY:O	4:F7:18:SER:N	2.50	0.45
4:FB:32:ASN:HB3	4:FB:33:SER:H	1.58	0.45
4:FE:16:GLY:O	4:FE:18:SER:N	2.50	0.45
4:FH:25:PHE:HZ	4:FI:22:VAL:HG11	1.81	0.45
4:FK:25:PHE:HZ	4:FL:22:VAL:HG11	1.81	0.45
4:FQ:16:GLY:O	4:FQ:18:SER:N	2.50	0.45
4:FS:16:GLY:O	4:FS:18:SER:N	2.50	0.45
4:FU:16:GLY:O	4:FU:18:SER:N	2.50	0.45
4:FV:16:GLY:O	4:FV:18:SER:N	2.50	0.45
4:FX:25:PHE:HZ	4:FY:22:VAL:HG11	1.81	0.45
4:Fo:22:VAL:HG11	4:Fs:25:PHE:HZ	1.81	0.45
4:Fp:16:GLY:O	4:Fp:18:SER:N	2.50	0.45
4:Ft:16:GLY:O	4:Ft:18:SER:N	2.50	0.45
1:A1:225:PRO:HA	1:A1:226:PRO:HD2	1.88	0.45
1:A2:109:VAL:HG22	1:A2:191:HIS:HD2	1.82	0.45
1:A4:109:VAL:HG22	1:A4:191:HIS:HD2	1.82	0.45
1:A4:137:GLY:HA2	1:A5:38:PHE:CD1	2.48	0.45
1:A6:22:VAL:CG1	1:A6:23:ASP:N	2.79	0.45
1:A6:82:LEU:CD2	1:A6:84:LEU:HD11	2.46	0.45
1:A7:83:GLU:C	1:A7:84:LEU:HD12	2.41	0.45
1:A8:165:ARG:HG2	2:C9:180:PRO:O	2.16	0.45
1:A9:183:THR:HA	1:A9:186:TRP:HB3	1.99	0.45
1:AA:103:TRP:HB2	1:AA:198:THR:HG23	1.96	0.45
1:AD:22:VAL:CG1	1:AD:23:ASP:N	2.79	0.45
1:AD:112:PRO:HB2	3:DE:223:PRO:HB3	1.98	0.45
1:AE:184:TYR:CE2	2:CE:139:ALA:HB2	2.51	0.45
1:AF:62:SER:HB2	1:AF:73:ASN:ND2	2.27	0.45
1:AF:82:LEU:CD2	1:AF:84:LEU:HD11	2.46	0.45
1:AF:184:TYR:CE2	2:CF:139:ALA:HB2	2.51	0.45
1:AG:107:PHE:HB2	1:AG:194:SER:OG	2.17	0.45
1:AH:22:VAL:CG1	1:AH:23:ASP:N	2.79	0.45
1:AI:7:ASP:O	1:AI:8:GLY:C	2.59	0.45
1:AI:45:LEU:HB2	1:AI:202:HIS:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:187:LEU:HD22	1:AK:188:PRO:N	2.30	0.45
1:AK:199:SER:C	1:AK:201:ALA:H	2.25	0.45
1:AL:109:VAL:HG22	1:AL:191:HIS:HD2	1.82	0.45
1:AL:199:SER:C	1:AL:201:ALA:H	2.25	0.45
1:AM:110:GLY:H	1:AN:242:ASN:ND2	2.12	0.45
1:AN:7:ASP:O	1:AN:8:GLY:C	2.59	0.45
1:AN:183:THR:HA	1:AN:186:TRP:HB3	1.99	0.45
1:AO:184:TYR:CE2	2:CO:139:ALA:HB2	2.51	0.45
1:AO:199:SER:C	1:AO:201:ALA:H	2.24	0.45
1:AP:45:LEU:HB2	1:AP:202:HIS:HA	1.98	0.45
1:AR:184:TYR:CE2	2:CR:139:ALA:HB2	2.51	0.45
1:AT:103:TRP:HB2	1:AT:198:THR:HG23	1.96	0.45
1:AT:184:TYR:CE2	2:CU:139:ALA:HB2	2.51	0.45
1:AU:43:LEU:HD23	1:AU:43:LEU:H	1.81	0.45
1:AU:183:THR:HA	1:AU:186:TRP:HB3	1.98	0.45
1:AW:56:VAL:HG13	1:AW:193:GLY:O	2.17	0.45
1:AW:82:LEU:CD2	1:AW:84:LEU:HD11	2.46	0.45
1:AW:83:GLU:C	1:AW:84:LEU:HD12	2.41	0.45
1:AX:184:TYR:CE2	2:CY:139:ALA:HB2	2.51	0.45
1:AZ:56:VAL:HG13	1:AZ:193:GLY:O	2.17	0.45
1:AZ:139:SER:HA	1:AZ:140:PRO:HD3	1.62	0.45
1:AZ:199:SER:C	1:AZ:201:ALA:H	2.25	0.45
1:Aa:82:LEU:CD2	1:Aa:84:LEU:HD11	2.46	0.45
1:Ad:112:PRO:HB2	3:Dg:223:PRO:HB3	1.98	0.45
1:Ae:83:GLU:C	1:Ae:84:LEU:HD12	2.41	0.45
1:Ae:184:TYR:CE2	2:Cg:139:ALA:HB2	2.51	0.45
1:Af:82:LEU:CD2	1:Af:84:LEU:HD11	2.46	0.45
1:Ag:49:THR:HG22	1:Ag:50:GLY:H	1.82	0.45
1:Ag:219:TYR:HD2	3:Di:39:ARG:HB2	1.79	0.45
1:Ah:242:ASN:ND2	1:Al:110:GLY:H	2.12	0.45
1:Aj:220:CYS:HA	1:Aj:221:PRO:HD2	1.82	0.45
1:Ak:56:VAL:HG13	1:Ak:193:GLY:O	2.17	0.45
1:Am:170:PHE:CD2	1:Am:222:ARG:CZ	2.87	0.45
1:Ao:22:VAL:CG1	1:Ao:23:ASP:N	2.79	0.45
1:Ao:83:GLU:C	1:Ao:84:LEU:HD12	2.41	0.45
1:BA:165:ARG:HG2	2:Cp:180:PRO:O	2.16	0.45
1:BC:22:VAL:CG1	1:BC:23:ASP:N	2.79	0.45
1:BC:165:ARG:HG2	2:Cr:180:PRO:O	2.16	0.45
1:BD:165:ARG:HG2	2:Cs:180:PRO:O	2.16	0.45
1:BD:219:TYR:HD2	3:Ds:39:ARG:HB2	1.79	0.45
1:BF:101:PHE:CD2	1:BF:143:VAL:CG1	2.91	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:143:VAL:H	3:EE:14:PHE:CB	2.28	0.45
1:BI:43:LEU:HD23	1:BI:43:LEU:H	1.81	0.45
1:BI:49:THR:HG22	1:BI:50:GLY:H	1.82	0.45
2:C0:63:THR:CG2	3:DQ:188:LEU:HD21	2.47	0.45
2:C0:92:GLY:HA3	2:CP:228:ASN:OD1	2.16	0.45
2:C1:228:ASN:OD1	2:CN:92:GLY:HA3	2.16	0.45
2:C2:160:HIS:HE2	3:D2:51:TYR:HE1	1.64	0.45
2:C3:75:HIS:NE2	3:D3:59:LYS:HB3	2.30	0.45
2:C4:115:ASN:HD22	3:EC:190:ALA:C	2.17	0.45
2:C5:108:TRP:O	2:C5:218:ILE:HD12	2.17	0.45
2:C6:135:THR:HG23	2:C6:145:LEU:HD11	1.99	0.45
2:C6:216:ALA:HA	2:C6:217:PRO:HD3	1.78	0.45
2:C9:75:HIS:NE2	3:D9:59:LYS:HB3	2.30	0.45
2:CB:92:GLY:HA3	2:Ce:228:ASN:OD1	2.16	0.45
2:CC:152:TYR:HB2	2:CC:197:LEU:HD22	1.97	0.45
2:CD:63:THR:CG2	3:D7:188:LEU:HD21	2.47	0.45
2:CD:75:HIS:HA	2:CD:198:ILE:O	2.17	0.45
2:CF:78:ALA:HB1	2:CF:195:VAL:HG12	1.99	0.45
2:CH:84:PRO:HG3	2:CH:108:TRP:CH2	2.50	0.45
2:CJ:74:SER:O	2:CJ:75:HIS:C	2.58	0.45
2:CJ:152:TYR:HB2	2:CJ:197:LEU:HD22	1.97	0.45
2:CK:212:THR:HG23	3:Db:188:LEU:HD22	1.96	0.45
2:CM:76:GLY:HA2	2:CM:197:LEU:HD21	1.97	0.45
2:CO:75:HIS:HA	2:CO:198:ILE:O	2.17	0.45
2:CO:78:ALA:HB1	2:CO:195:VAL:HG12	1.99	0.45
2:CO:88:LEU:C	2:CO:90:LYS:H	2.23	0.45
2:CP:75:HIS:HA	2:CP:198:ILE:O	2.17	0.45
2:CP:75:HIS:NE2	3:DP:59:LYS:HB3	2.30	0.45
2:CP:152:TYR:HB2	2:CP:197:LEU:HD22	1.97	0.45
2:CR:228:ASN:OD1	2:Cw:92:GLY:HA3	2.16	0.45
2:CS:63:THR:CG2	3:Dc:188:LEU:HD21	2.47	0.45
2:CT:84:PRO:HD3	2:CT:108:TRP:CZ2	2.49	0.45
2:CU:76:GLY:HA2	2:CU:197:LEU:HD21	1.97	0.45
2:CV:75:HIS:NE2	3:DV:59:LYS:HB3	2.31	0.45
2:CV:212:THR:HG23	3:DB:188:LEU:HD22	1.96	0.45
2:CW:65:LYS:CB	3:DJ:135:ARG:HH21	2.29	0.45
2:CX:76:GLY:HA2	2:CX:197:LEU:HD21	1.97	0.45
2:CZ:36:TYR:HE2	2:CZ:130:PRO:HG2	1.81	0.45
2:CZ:78:ALA:HB1	2:CZ:195:VAL:HG12	1.99	0.45
2:Ca:75:HIS:NE2	3:Da:59:LYS:HB3	2.30	0.45
2:Ca:135:THR:HG23	2:Ca:145:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cb:23:ILE:HD12	2:Cb:23:ILE:H	1.80	0.45
2:Cb:88:LEU:C	2:Cb:90:LYS:H	2.24	0.45
2:Cb:95:HIS:CD2	2:Cb:95:HIS:C	2.93	0.45
2:Cd:75:HIS:HA	2:Cd:198:ILE:O	2.17	0.45
2:Cd:76:GLY:HA2	2:Cd:197:LEU:HD21	1.97	0.45
2:Ce:88:LEU:C	2:Ce:90:LYS:H	2.23	0.45
2:Ch:83:LEU:HA	2:Ch:84:PRO:HA	1.60	0.45
2:Cj:23:ILE:HD12	2:Cj:23:ILE:H	1.80	0.45
2:Ck:115:ASN:HD22	3:Da:190:ALA:C	2.17	0.45
2:Cl:75:HIS:HA	2:Cl:198:ILE:O	2.17	0.45
2:Cl:108:TRP:O	2:Cl:218:ILE:HD12	2.17	0.45
2:Cn:75:HIS:HA	2:Cn:198:ILE:O	2.17	0.45
2:Cn:212:THR:HG23	3:De:188:LEU:HD22	1.96	0.45
2:Cp:135:THR:HG23	2:Cp:145:LEU:HD11	1.99	0.45
2:Cq:63:THR:CG2	3:DY:188:LEU:HD21	2.47	0.45
2:Cr:84:PRO:HG3	2:Cr:108:TRP:CH2	2.50	0.45
2:Cu:108:TRP:O	2:Cu:218:ILE:HD12	2.17	0.45
2:Cv:46:THR:CG2	3:ED:165:ASP:HA	2.38	0.45
2:Cv:108:TRP:O	2:Cv:218:ILE:HD12	2.17	0.45
3:D0:160:TYR:CD1	3:D0:160:TYR:C	2.94	0.45
3:D1:101:ARG:O	3:D1:101:ARG:HG2	2.17	0.45
3:D3:13:SER:OG	3:D3:15:MET:CE	2.64	0.45
3:D3:108:PHE:O	3:D3:153:ALA:HA	2.15	0.45
3:D5:77:ASP:O	3:D5:79:SER:N	2.50	0.45
3:D6:160:TYR:CD1	3:D6:160:TYR:C	2.94	0.45
3:D8:97:PHE:CD1	3:D8:216:LEU:HD23	2.51	0.45
3:DB:77:ASP:O	3:DB:79:SER:N	2.50	0.45
3:DD:103:SER:HB3	3:DD:159:PRO:CA	2.35	0.45
3:DD:122:VAL:HG22	3:DD:123:ALA:N	2.30	0.45
3:DE:195:ASP:HB2	3:DE:198:VAL:HG22	1.98	0.45
3:DF:122:VAL:HA	3:DF:185:VAL:HA	1.97	0.45
3:DF:154:PHE:CG	3:DF:155:SER:N	2.84	0.45
3:DG:43:PHE:O	3:DG:44:ILE:C	2.60	0.45
3:DH:13:SER:OG	3:DH:15:MET:CE	2.64	0.45
3:DH:120:PHE:HD2	3:DH:146:TRP:CH2	2.34	0.45
3:DI:77:ASP:O	3:DI:79:SER:N	2.50	0.45
3:DI:84:GLU:H	3:DI:84:GLU:CD	2.21	0.45
3:DK:77:ASP:O	3:DK:79:SER:N	2.50	0.45
3:DK:97:PHE:CD1	3:DK:216:LEU:HD23	2.51	0.45
3:DL:85:LEU:O	3:DL:91:ALA:CB	2.65	0.45
3:DL:101:ARG:HG2	3:DL:101:ARG:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:198:VAL:HG23	3:DL:199:ASN:H	1.82	0.45
3:DM:8:VAL:CG1	3:DM:9:PRO:HD2	2.39	0.45
3:DM:56:ILE:CG1	3:DM:74:PHE:CE1	2.98	0.45
3:DM:154:PHE:CG	3:DM:155:SER:N	2.84	0.45
3:DM:172:ALA:O	3:DM:178:ASN:OD1	2.35	0.45
3:DN:154:PHE:CG	3:DN:155:SER:N	2.84	0.45
3:DO:198:VAL:HG23	3:DO:199:ASN:H	1.82	0.45
3:DQ:120:PHE:HD2	3:DQ:146:TRP:CH2	2.34	0.45
3:DQ:172:ALA:O	3:DQ:178:ASN:OD1	2.35	0.45
3:DR:77:ASP:O	3:DR:79:SER:N	2.50	0.45
3:DS:77:ASP:O	3:DS:79:SER:N	2.50	0.45
3:DS:195:ASP:HB2	3:DS:198:VAL:HG22	1.98	0.45
3:DS:220:VAL:HG12	3:DS:221:ASP:O	2.15	0.45
3:DT:13:SER:OG	3:DT:15:MET:CE	2.64	0.45
3:DU:103:SER:HB3	3:DU:159:PRO:C	2.40	0.45
3:DU:122:VAL:HA	3:DU:185:VAL:HA	1.97	0.45
3:DU:195:ASP:HB2	3:DU:198:VAL:HG22	1.98	0.45
3:DZ:77:ASP:O	3:DZ:79:SER:N	2.50	0.45
3:Da:110:PHE:HB3	3:Da:148:VAL:HG11	1.96	0.45
3:Db:84:GLU:CD	3:Db:84:GLU:H	2.21	0.45
3:Db:103:SER:HB2	3:Db:159:PRO:HA	1.95	0.45
3:Dd:19:PRO:HB3	4:Fc:30:TYR:CD2	2.52	0.45
3:Dd:56:ILE:CG1	3:Dd:74:PHE:CE1	2.98	0.45
3:Dd:172:ALA:O	3:Dd:178:ASN:OD1	2.34	0.45
3:De:19:PRO:HB3	4:Fi:30:TYR:CD2	2.52	0.45
3:De:84:GLU:CD	3:De:84:GLU:H	2.20	0.45
3:De:101:ARG:O	3:De:101:ARG:HG2	2.17	0.45
3:Dg:172:ALA:O	3:Dg:178:ASN:OD1	2.35	0.45
3:Dh:117:LYS:O	3:Dh:191:LEU:HD22	2.15	0.45
3:Dh:172:ALA:O	3:Dh:178:ASN:OD1	2.35	0.45
3:Di:56:ILE:CG1	3:Di:74:PHE:CE1	2.98	0.45
3:Di:97:PHE:CD1	3:Di:216:LEU:HD23	2.51	0.45
3:Dj:19:PRO:HB3	4:Fn:30:TYR:CD2	2.52	0.45
3:Dj:220:VAL:HG12	3:Dj:221:ASP:O	2.15	0.45
3:Dk:85:LEU:O	3:Dk:91:ALA:CB	2.65	0.45
3:Dk:108:PHE:O	3:Dk:153:ALA:HA	2.15	0.45
3:Dl:19:PRO:HB3	4:Fk:30:TYR:CD2	2.52	0.45
3:Dl:43:PHE:O	3:Dl:44:ILE:C	2.60	0.45
3:Dl:97:PHE:CD1	3:Dl:216:LEU:HD23	2.51	0.45
3:Dl:154:PHE:CG	3:Dl:155:SER:N	2.84	0.45
3:Dl:198:VAL:HG23	3:Dl:199:ASN:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Do:101:ARG:O	3:Do:101:ARG:HG2	2.17	0.45
3:Dq:103:SER:HB3	3:Dq:159:PRO:C	2.40	0.45
3:EB:172:ALA:O	3:EB:178:ASN:OD1	2.34	0.45
3:EC:19:PRO:HB3	4:Fu:30:TYR:CD2	2.52	0.45
3:EC:122:VAL:HA	3:EC:185:VAL:HA	1.97	0.45
3:ED:85:LEU:O	3:ED:91:ALA:CB	2.65	0.45
3:ED:160:TYR:C	3:ED:160:TYR:CD1	2.94	0.45
4:FD:16:GLY:O	4:FD:18:SER:N	2.50	0.45
4:FG:16:GLY:O	4:FG:18:SER:N	2.50	0.45
4:FV:25:PHE:HZ	4:FW:22:VAL:HG11	1.81	0.45
4:Fc:25:PHE:HZ	4:Fd:22:VAL:HG11	1.81	0.45
4:Fh:25:PHE:HZ	4:Fi:22:VAL:HG11	1.81	0.45
4:Fo:16:GLY:O	4:Fo:18:SER:N	2.50	0.45
4:Fq:16:GLY:O	4:Fq:18:SER:N	2.50	0.45
1:A0:45:LEU:HB2	1:A0:202:HIS:HA	1.98	0.45
1:A0:199:SER:C	1:A0:201:ALA:H	2.25	0.45
1:A1:83:GLU:C	1:A1:84:LEU:HD12	2.41	0.45
1:A2:82:LEU:CD2	1:A2:84:LEU:HD11	2.46	0.45
1:A2:83:GLU:C	1:A2:84:LEU:HD12	2.41	0.45
1:A3:107:PHE:HB2	1:A3:194:SER:OG	2.17	0.45
1:A4:82:LEU:CD2	1:A4:84:LEU:HD11	2.46	0.45
1:A5:43:LEU:HD23	1:A5:43:LEU:H	1.81	0.45
1:A5:49:THR:HG22	1:A5:50:GLY:H	1.82	0.45
1:A5:139:SER:HA	1:A5:140:PRO:HD3	1.62	0.45
1:A6:110:GLY:H	1:A7:242:ASN:ND2	2.12	0.45
1:A7:199:SER:C	1:A7:201:ALA:H	2.25	0.45
1:A8:199:SER:C	1:A8:201:ALA:H	2.25	0.45
1:A9:56:VAL:HG13	1:A9:193:GLY:O	2.17	0.45
1:AA:56:VAL:HG13	1:AA:193:GLY:O	2.17	0.45
1:AA:165:ARG:HG2	2:CA:180:PRO:O	2.16	0.45
1:AB:56:VAL:HG13	1:AB:193:GLY:O	2.17	0.45
1:AB:137:GLY:HA2	1:AC:38:PHE:CD1	2.49	0.45
1:AJ:56:VAL:HG13	1:AJ:193:GLY:O	2.17	0.45
1:AK:56:VAL:HG13	1:AK:193:GLY:O	2.17	0.45
1:AK:107:PHE:HB2	1:AK:194:SER:OG	2.16	0.45
1:AL:103:TRP:HB2	1:AL:198:THR:HG23	1.96	0.45
1:AL:183:THR:HA	1:AL:186:TRP:HB3	1.98	0.45
1:AL:184:TYR:CE2	2:CL:139:ALA:HB2	2.51	0.45
1:AO:22:VAL:CG1	1:AO:23:ASP:N	2.79	0.45
1:AO:143:VAL:H	3:DK:14:PHE:CB	2.28	0.45
1:AP:7:ASP:O	1:AP:8:GLY:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:139:SER:HA	1:AQ:140:PRO:HD3	1.62	0.45
1:AS:107:PHE:HB2	1:AS:194:SER:OG	2.17	0.45
1:AT:82:LEU:CD2	1:AT:84:LEU:HD11	2.46	0.45
1:AT:183:THR:HA	1:AT:186:TRP:HB3	1.98	0.45
1:AU:22:VAL:CG1	1:AU:23:ASP:N	2.79	0.45
1:AU:219:TYR:HD2	3:DV:39:ARG:HB2	1.79	0.45
1:AV:170:PHE:CD2	1:AV:222:ARG:CZ	2.87	0.45
1:AW:107:PHE:HB2	1:AW:194:SER:OG	2.16	0.45
1:AW:183:THR:HA	1:AW:186:TRP:HB3	1.98	0.45
1:AY:83:GLU:C	1:AY:84:LEU:HD12	2.41	0.45
1:AZ:107:PHE:HB2	1:AZ:194:SER:OG	2.16	0.45
1:Aa:112:PRO:HB2	3:Dd:223:PRO:HB3	1.97	0.45
1:Ab:56:VAL:HG13	1:Ab:193:GLY:O	2.17	0.45
1:Ab:112:PRO:HB2	3:D9:223:PRO:HB3	1.97	0.45
1:Af:107:PHE:HB2	1:Af:194:SER:OG	2.17	0.45
1:Ah:109:VAL:HG22	1:Ah:191:HIS:HD2	1.82	0.45
1:Ai:56:VAL:HG13	1:Ai:193:GLY:O	2.17	0.45
1:Aj:30:VAL:CG1	1:Aj:218:MET:HE3	2.34	0.45
1:Aj:82:LEU:CD2	1:Aj:84:LEU:HD11	2.46	0.45
1:Al:101:PHE:CD2	1:Al:143:VAL:HG11	2.44	0.45
1:Al:107:PHE:HB2	1:Al:194:SER:OG	2.16	0.45
1:Am:56:VAL:HG13	1:Am:193:GLY:O	2.17	0.45
1:Am:83:GLU:C	1:Am:84:LEU:HD12	2.41	0.45
1:Ao:107:PHE:HB2	1:Ao:194:SER:OG	2.16	0.45
1:Ao:143:VAL:H	3:DT:14:PHE:CB	2.28	0.45
1:BA:45:LEU:HB2	1:BA:202:HIS:HA	1.98	0.45
1:BB:22:VAL:CG1	1:BB:23:ASP:N	2.79	0.45
1:BB:83:GLU:C	1:BB:84:LEU:HD12	2.41	0.45
1:BB:109:VAL:HG22	1:BB:191:HIS:HD2	1.82	0.45
1:BB:112:PRO:HB2	3:Dr:223:PRO:HB3	1.97	0.45
1:BD:183:THR:HA	1:BD:186:TRP:HB3	1.98	0.45
1:BE:107:PHE:HB2	1:BE:194:SER:OG	2.17	0.45
1:BE:165:ARG:HG2	2:Ct:180:PRO:O	2.16	0.45
1:BF:22:VAL:CG1	1:BF:23:ASP:N	2.79	0.45
1:BH:107:PHE:HB2	1:BH:194:SER:OG	2.16	0.45
1:BH:110:GLY:H	1:BI:242:ASN:ND2	2.12	0.45
1:BH:165:ARG:HG2	2:Cw:180:PRO:O	2.16	0.45
1:BH:171:TYR:N	1:BH:185:ASN:OD1	2.45	0.45
1:BH:183:THR:HA	1:BH:186:TRP:HB3	1.98	0.45
1:BH:219:TYR:HD2	3:ED:39:ARG:HB2	1.79	0.45
2:C0:65:LYS:CB	3:DQ:135:ARG:HH21	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:135:THR:HG23	2:C0:145:LEU:HD11	1.99	0.45
2:C1:63:THR:CG2	3:DO:188:LEU:HD21	2.47	0.45
2:C2:42:ARG:HA	2:C2:43:PRO:HD2	1.64	0.45
2:C2:75:HIS:HA	2:C2:198:ILE:O	2.17	0.45
2:C2:78:ALA:HB1	2:C2:195:VAL:HG12	1.99	0.45
2:C3:88:LEU:C	2:C3:90:LYS:H	2.24	0.45
2:C3:108:TRP:O	2:C3:218:ILE:HD12	2.16	0.45
2:C5:228:ASN:OD1	2:CF:92:GLY:HA3	2.16	0.45
2:C6:129:VAL:HA	2:C6:130:PRO:HD3	1.78	0.45
2:C7:135:THR:HG23	2:C7:145:LEU:HD11	1.98	0.45
2:C9:216:ALA:HA	2:C9:217:PRO:HD3	1.78	0.45
2:CC:78:ALA:HB1	2:CC:195:VAL:HG12	1.99	0.45
2:CC:153:GLN:NE2	3:DC:55:SER:CB	2.80	0.45
2:CG:78:ALA:HB1	2:CG:195:VAL:HG12	1.99	0.45
2:CG:212:THR:HG23	3:EB:188:LEU:HD22	1.96	0.45
2:CH:36:TYR:CE2	2:CH:130:PRO:CG	2.98	0.45
2:CI:153:GLN:NE2	3:DI:55:SER:CB	2.80	0.45
2:CJ:75:HIS:HA	2:CJ:198:ILE:O	2.17	0.45
2:CL:65:LYS:CB	3:Dk:135:ARG:HH21	2.29	0.45
2:CL:75:HIS:HA	2:CL:198:ILE:O	2.17	0.45
2:CL:228:ASN:OD1	2:Cj:92:GLY:HA3	2.16	0.45
2:CN:108:TRP:O	2:CN:218:ILE:HD12	2.17	0.45
2:CO:92:GLY:HA3	2:CT:228:ASN:OD1	2.16	0.45
2:CP:134:HIS:HB3	2:CP:135:THR:H	1.46	0.45
2:CR:63:THR:CG2	3:EE:188:LEU:HD21	2.47	0.45
2:CR:160:HIS:HD1	2:CR:160:HIS:N	2.14	0.45
2:CS:13:ARG:HA	2:CS:13:ARG:HD3	1.72	0.45
2:CU:92:GLY:HA3	2:Cf:228:ASN:OD1	2.16	0.45
2:CV:84:PRO:HG3	2:CV:108:TRP:CH2	2.50	0.45
2:CW:63:THR:CG2	3:DJ:188:LEU:HD21	2.47	0.45
2:CX:42:ARG:HA	2:CX:43:PRO:HD2	1.64	0.45
2:CX:152:TYR:HB2	2:CX:197:LEU:HD22	1.97	0.45
2:CX:228:ASN:OD1	2:Cq:92:GLY:HA3	2.16	0.45
2:CY:75:HIS:HA	2:CY:198:ILE:O	2.17	0.45
2:CY:78:ALA:HB1	2:CY:195:VAL:HG12	1.99	0.45
2:Ca:108:TRP:O	2:Ca:218:ILE:HD12	2.17	0.45
2:Cb:152:TYR:HB2	2:Cb:197:LEU:HD22	1.97	0.45
2:Ce:153:GLN:NE2	3:De:55:SER:CB	2.80	0.45
2:Ch:13:ARG:HA	2:Ch:13:ARG:HD3	1.72	0.45
2:Ch:75:HIS:HA	2:Ch:198:ILE:O	2.17	0.45
2:Ch:84:PRO:HG3	2:Ch:108:TRP:CH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ci:135:THR:HG23	2:Ci:145:LEU:HD11	1.99	0.45
2:Ci:152:TYR:HB2	2:Ci:197:LEU:HD22	1.98	0.45
2:Ci:212:THR:HG23	3:Dj:188:LEU:HD22	1.96	0.45
2:Cj:152:TYR:HB2	2:Cj:197:LEU:HD22	1.97	0.45
2:Ck:88:LEU:C	2:Ck:90:LYS:H	2.24	0.45
2:Ck:212:THR:HG23	3:Da:188:LEU:HD22	1.96	0.45
2:Cl:13:ARG:HD3	2:Cl:13:ARG:HA	1.72	0.45
2:Cl:212:THR:HG23	3:D8:188:LEU:HD22	1.96	0.45
2:Cm:23:ILE:HD12	2:Cm:23:ILE:H	1.80	0.45
2:Cm:160:HIS:HE2	3:Dm:51:TYR:HE1	1.64	0.45
2:Cn:63:THR:CG2	3:De:188:LEU:HD21	2.47	0.45
2:Co:75:HIS:NE2	3:Do:59:LYS:HB3	2.31	0.45
2:Co:78:ALA:HB1	2:Co:195:VAL:HG12	1.99	0.45
2:Cp:88:LEU:C	2:Cp:90:LYS:H	2.23	0.45
2:Cp:152:TYR:OH	3:Dp:60:PRO:HD3	2.17	0.45
2:Cp:153:GLN:NE2	3:Dp:55:SER:CB	2.80	0.45
2:Cr:75:HIS:HA	2:Cr:198:ILE:O	2.17	0.45
2:Cr:88:LEU:C	2:Cr:90:LYS:H	2.23	0.45
2:Cs:92:GLY:HA3	2:Cx:228:ASN:OD1	2.16	0.45
2:Ct:23:ILE:HD12	2:Ct:23:ILE:H	1.80	0.45
3:D2:19:PRO:HB3	4:F1:30:TYR:CD2	2.52	0.45
3:D3:160:TYR:CD1	3:D3:160:TYR:C	2.94	0.45
3:D3:198:VAL:HG23	3:D3:199:ASN:H	1.82	0.45
3:D4:85:LEU:O	3:D4:91:ALA:CB	2.64	0.45
3:D4:110:PHE:HB3	3:D4:148:VAL:HG11	1.96	0.45
3:D4:122:VAL:HA	3:D4:185:VAL:HA	1.97	0.45
3:D7:56:ILE:CG1	3:D7:74:PHE:CE1	2.98	0.45
3:D7:120:PHE:HD2	3:D7:146:TRP:CH2	2.34	0.45
3:D7:160:TYR:CD1	3:D7:160:TYR:C	2.94	0.45
3:D8:172:ALA:O	3:D8:178:ASN:OD1	2.34	0.45
3:D9:120:PHE:HD2	3:D9:146:TRP:CH2	2.34	0.45
3:DC:77:ASP:O	3:DC:79:SER:N	2.50	0.45
3:DD:97:PHE:CD1	3:DD:216:LEU:HD23	2.51	0.45
3:DG:101:ARG:O	3:DG:101:ARG:HG2	2.17	0.45
3:DG:120:PHE:HD2	3:DG:146:TRP:CH2	2.34	0.45
3:DH:101:ARG:HG2	3:DH:101:ARG:O	2.17	0.45
3:DI:97:PHE:CD1	3:DI:216:LEU:HD23	2.51	0.45
3:DJ:13:SER:OG	3:DJ:15:MET:CE	2.64	0.45
3:DJ:77:ASP:O	3:DJ:79:SER:N	2.50	0.45
3:DK:101:ARG:HG2	3:DK:101:ARG:O	2.17	0.45
3:DK:172:ALA:O	3:DK:178:ASN:OD1	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:172:ALA:O	3:DL:178:ASN:OD1	2.35	0.45
3:DM:103:SER:HB2	3:DM:159:PRO:HA	1.95	0.45
3:DN:13:SER:OG	3:DN:15:MET:CE	2.64	0.45
3:DN:110:PHE:HB3	3:DN:148:VAL:HG11	1.96	0.45
3:DO:101:ARG:O	3:DO:101:ARG:HG2	2.17	0.45
3:DR:85:LEU:O	3:DR:91:ALA:CB	2.65	0.45
3:DS:19:PRO:HB3	4:FR:30:TYR:CD2	2.52	0.45
3:DT:77:ASP:O	3:DT:79:SER:N	2.50	0.45
3:DU:120:PHE:HD2	3:DU:146:TRP:CH2	2.34	0.45
3:DW:13:SER:OG	3:DW:15:MET:CE	2.64	0.45
3:DW:154:PHE:CG	3:DW:155:SER:N	2.84	0.45
3:DX:85:LEU:O	3:DX:91:ALA:CB	2.65	0.45
3:DY:13:SER:OG	3:DY:15:MET:CE	2.64	0.45
3:DZ:85:LEU:O	3:DZ:91:ALA:CB	2.64	0.45
3:DZ:172:ALA:O	3:DZ:178:ASN:OD1	2.34	0.45
3:Db:19:PRO:HB3	4:Fa:30:TYR:CD2	2.52	0.45
3:Db:154:PHE:CG	3:Db:155:SER:N	2.84	0.45
3:Db:195:ASP:HB2	3:Db:198:VAL:HG22	1.98	0.45
3:Dd:43:PHE:O	3:Dd:44:ILE:C	2.60	0.45
3:Dd:122:VAL:HG22	3:Dd:123:ALA:N	2.30	0.45
3:Df:154:PHE:CG	3:Df:155:SER:N	2.84	0.45
3:Dg:56:ILE:CG1	3:Dg:74:PHE:CE1	2.98	0.45
3:Di:103:SER:HB2	3:Di:159:PRO:HA	1.95	0.45
3:Dj:77:ASP:O	3:Dj:79:SER:N	2.50	0.45
3:Dj:198:VAL:HG23	3:Dj:199:ASN:H	1.82	0.45
3:Dm:77:ASP:O	3:Dm:79:SER:N	2.50	0.45
3:Dm:103:SER:HB3	3:Dm:159:PRO:CA	2.35	0.45
3:Dn:172:ALA:O	3:Dn:178:ASN:OD1	2.34	0.45
3:Do:108:PHE:O	3:Do:153:ALA:HA	2.16	0.45
3:Dp:13:SER:OG	3:Dp:15:MET:CE	2.64	0.45
3:Ds:172:ALA:O	3:Ds:178:ASN:OD1	2.35	0.45
3:EA:198:VAL:HG23	3:EA:199:ASN:H	1.82	0.45
3:EB:19:PRO:HG3	4:Fu:17:ASN:ND2	2.26	0.45
3:EC:13:SER:OG	3:EC:15:MET:CE	2.64	0.45
3:EC:154:PHE:CG	3:EC:155:SER:N	2.84	0.45
3:ED:108:PHE:O	3:ED:153:ALA:HA	2.16	0.45
3:EE:43:PHE:O	3:EE:44:ILE:C	2.60	0.45
3:EE:101:ARG:O	3:EE:101:ARG:HG2	2.17	0.45
3:EE:110:PHE:HB3	3:EE:148:VAL:HG11	1.96	0.45
3:EE:198:VAL:HG23	3:EE:199:ASN:H	1.82	0.45
4:F1:16:GLY:O	4:F1:18:SER:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FA:22:VAL:HG11	4:FE:25:PHE:HZ	1.81	0.45
4:FJ:16:GLY:O	4:FJ:18:SER:N	2.50	0.45
4:Fj:16:GLY:O	4:Fj:18:SER:N	2.50	0.45
4:Fl:25:PHE:HZ	4:Fm:22:VAL:HG11	1.81	0.45
4:Fr:16:GLY:O	4:Fr:18:SER:N	2.50	0.45
1:A3:101:PHE:O	1:A3:199:SER:OG	2.33	0.45
1:A5:101:PHE:O	1:A5:199:SER:OG	2.33	0.45
1:A5:107:PHE:HB2	1:A5:194:SER:OG	2.16	0.45
1:A7:101:PHE:CD2	1:A7:143:VAL:HG11	2.44	0.45
1:A7:184:TYR:CE2	2:C8:139:ALA:HB2	2.51	0.45
1:A8:56:VAL:HG13	1:A8:193:GLY:O	2.17	0.45
1:A8:112:PRO:HB2	3:Da:223:PRO:HB3	1.97	0.45
1:A9:143:VAL:H	3:Db:14:PHE:CB	2.28	0.45
1:AA:82:LEU:CD2	1:AA:84:LEU:HD11	2.46	0.45
1:AA:110:GLY:H	1:AB:242:ASN:ND2	2.12	0.45
1:AB:183:THR:HA	1:AB:186:TRP:HB3	1.98	0.45
1:AC:183:THR:HA	1:AC:186:TRP:HB3	1.98	0.45
1:AD:56:VAL:HG13	1:AD:193:GLY:O	2.17	0.45
1:AD:101:PHE:CD2	1:AD:143:VAL:CG1	2.91	0.45
1:AE:56:VAL:HG13	1:AE:193:GLY:O	2.17	0.45
1:AE:83:GLU:C	1:AE:84:LEU:HD12	2.41	0.45
1:AH:56:VAL:HG13	1:AH:193:GLY:O	2.17	0.45
1:AI:107:PHE:HB2	1:AI:194:SER:OG	2.16	0.45
1:AJ:107:PHE:HB2	1:AJ:194:SER:OG	2.17	0.45
1:AK:22:VAL:CG1	1:AK:23:ASP:N	2.79	0.45
1:AL:121:LEU:HD21	1:AM:206:GLY:CA	2.47	0.45
1:AM:109:VAL:HG22	1:AM:191:HIS:HD2	1.82	0.45
1:AR:199:SER:C	1:AR:201:ALA:H	2.25	0.45
1:AS:43:LEU:HD23	1:AS:43:LEU:H	1.81	0.45
1:AS:56:VAL:HG13	1:AS:193:GLY:O	2.17	0.45
1:AU:110:GLY:H	1:AV:242:ASN:ND2	2.12	0.45
1:AU:187:LEU:HD22	1:AU:188:PRO:N	2.30	0.45
1:AV:22:VAL:CG1	1:AV:23:ASP:N	2.79	0.45
1:AV:49:THR:HG22	1:AV:50:GLY:H	1.82	0.45
1:AV:107:PHE:HB2	1:AV:194:SER:OG	2.16	0.45
1:AV:146:ILE:HD13	1:AV:146:ILE:HG21	1.74	0.45
1:AV:165:ARG:HG2	2:CW:180:PRO:O	2.16	0.45
1:AW:110:GLY:H	1:AX:242:ASN:ND2	2.12	0.45
1:AX:52:PRO:HD3	1:AX:115:THR:O	2.17	0.45
1:AX:107:PHE:HB2	1:AX:194:SER:OG	2.16	0.45
1:AX:146:ILE:HG22	1:AX:146:ILE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:187:LEU:HD22	1:AX:188:PRO:N	2.30	0.45
1:AY:101:PHE:O	1:AY:199:SER:OG	2.33	0.45
1:AY:184:TYR:CE2	2:CZ:139:ALA:HB2	2.51	0.45
1:AZ:183:THR:HA	1:AZ:186:TRP:HB3	1.98	0.45
1:Ab:45:LEU:HB2	1:Ab:202:HIS:HA	1.98	0.45
1:Ac:107:PHE:HB2	1:Ac:194:SER:OG	2.17	0.45
1:Ae:143:VAL:H	3:Dh:14:PHE:CB	2.28	0.45
1:Ae:183:THR:HA	1:Ae:186:TRP:HB3	1.98	0.45
1:Af:7:ASP:O	1:Af:8:GLY:C	2.59	0.45
1:Af:183:THR:HA	1:Af:186:TRP:HB3	1.98	0.45
1:Ag:56:VAL:HG13	1:Ag:193:GLY:O	2.17	0.45
1:Ag:101:PHE:CD2	1:Ag:143:VAL:CG1	2.91	0.45
1:Ag:183:THR:HA	1:Ag:186:TRP:HB3	1.98	0.45
1:Ah:103:TRP:HB2	1:Ah:198:THR:HG23	1.96	0.45
1:Ah:165:ARG:HG2	2:Cj:180:PRO:O	2.16	0.45
1:Aj:101:PHE:CD2	1:Aj:143:VAL:CG1	2.91	0.45
1:Aj:107:PHE:HB2	1:Aj:194:SER:OG	2.16	0.45
1:Ak:22:VAL:CG1	1:Ak:23:ASP:N	2.79	0.45
1:Am:165:ARG:HG2	2:Co:180:PRO:O	2.16	0.45
1:Ao:45:LEU:HB2	1:Ao:202:HIS:HA	1.98	0.45
1:BA:112:PRO:HB2	3:Dq:223:PRO:HB3	1.98	0.45
1:BB:103:TRP:HB2	1:BB:198:THR:HG23	1.96	0.45
1:BB:183:THR:HA	1:BB:186:TRP:HB3	1.98	0.45
1:BC:110:GLY:H	1:BD:242:ASN:ND2	2.12	0.45
1:BD:82:LEU:CD2	1:BD:84:LEU:HD11	2.46	0.45
1:BE:101:PHE:CD2	1:BE:143:VAL:CG1	2.91	0.45
1:BE:101:PHE:O	1:BE:199:SER:OG	2.33	0.45
1:BH:49:THR:HG22	1:BH:50:GLY:H	1.82	0.45
1:BH:101:PHE:CD2	1:BH:143:VAL:HG11	2.44	0.45
1:BH:184:TYR:CE2	2:Cw:139:ALA:HB2	2.51	0.45
1:BI:22:VAL:CG1	1:BI:23:ASP:N	2.79	0.45
2:C0:78:ALA:HB1	2:C0:195:VAL:HG12	1.99	0.45
2:C1:78:ALA:HB1	2:C1:195:VAL:HG12	1.99	0.45
2:C1:160:HIS:HE2	3:D1:51:TYR:HE1	1.64	0.45
2:C2:88:LEU:C	2:C2:90:LYS:H	2.23	0.45
2:C4:75:HIS:HA	2:C4:198:ILE:O	2.17	0.45
2:C4:152:TYR:HB2	2:C4:197:LEU:HD22	1.98	0.45
2:C7:152:TYR:OH	3:D7:60:PRO:HD3	2.17	0.45
2:C8:75:HIS:HA	2:C8:198:ILE:O	2.17	0.45
2:C8:108:TRP:O	2:C8:218:ILE:HD12	2.16	0.45
2:C9:65:LYS:CB	3:D1:135:ARG:HH21	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:84:PRO:HG3	2:C9:108:TRP:CH2	2.50	0.45
2:C9:92:GLY:HA3	2:Ck:228:ASN:OD1	2.16	0.45
2:CA:134:HIS:HB3	2:CA:135:THR:H	1.46	0.45
2:CB:42:ARG:HA	2:CB:43:PRO:HD2	1.64	0.45
2:CB:54:LEU:HD21	2:CB:97:VAL:HG11	1.99	0.45
2:CD:75:HIS:NE2	3:DD:59:LYS:HB3	2.30	0.45
2:CE:56:PRO:C	2:CE:57:THR:O	2.59	0.45
2:CE:78:ALA:HB1	2:CE:195:VAL:HG12	1.99	0.45
2:CH:152:TYR:HB2	2:CH:197:LEU:HD22	1.97	0.45
2:CI:129:VAL:HA	2:CI:130:PRO:HD3	1.77	0.45
2:CI:135:THR:HG23	2:CI:145:LEU:HD11	1.98	0.45
2:CI:228:ASN:OD1	2:CW:92:GLY:HA3	2.16	0.45
2:CJ:78:ALA:HB1	2:CJ:195:VAL:HG12	1.99	0.45
2:CL:63:THR:CG2	3:Dk:188:LEU:HD21	2.47	0.45
2:CQ:216:ALA:HA	2:CQ:217:PRO:HD3	1.78	0.45
2:CR:76:GLY:HA2	2:CR:197:LEU:HD21	1.97	0.45
2:CW:88:LEU:C	2:CW:90:LYS:H	2.23	0.45
2:CW:160:HIS:HE2	3:DW:51:TYR:HE1	1.64	0.45
2:CX:108:TRP:O	2:CX:218:ILE:HD12	2.16	0.45
2:CY:75:HIS:NE2	3:DY:59:LYS:HB3	2.30	0.45
2:CZ:65:LYS:CB	3:Dq:135:ARG:HH21	2.29	0.45
2:Cc:23:ILE:HD12	2:Cc:23:ILE:H	1.80	0.45
2:Cc:63:THR:CG2	3:ED:188:LEU:HD21	2.47	0.45
2:Cc:83:LEU:HA	2:Cc:84:PRO:HA	1.60	0.45
2:Cc:228:ASN:OD1	2:Cv:92:GLY:HA3	2.16	0.45
2:Ce:23:ILE:HD12	2:Ce:23:ILE:H	1.80	0.45
2:Ce:152:TYR:OH	3:De:60:PRO:HD3	2.17	0.45
2:Cg:75:HIS:NE2	3:Dg:59:LYS:HB3	2.30	0.45
2:Ch:108:TRP:O	2:Ch:218:ILE:HD12	2.17	0.45
2:Ch:153:GLN:NE2	3:Dh:55:SER:CB	2.80	0.45
2:Ch:157:VAL:HG23	3:Dh:50:THR:HG21	1.99	0.45
2:CI:226:LEU:CD2	3:De:126:PRO:HG2	2.36	0.45
2:Ck:58:LEU:HB3	2:Ck:59:SER:H	1.65	0.45
2:Cn:153:GLN:NE2	3:Dn:55:SER:CB	2.80	0.45
2:Cp:78:ALA:HB1	2:Cp:195:VAL:HG12	1.99	0.45
2:Cu:78:ALA:HB1	2:Cu:195:VAL:HG12	1.99	0.45
2:Cu:83:LEU:HA	2:Cu:84:PRO:HA	1.60	0.45
2:Cv:75:HIS:HA	2:Cv:198:ILE:O	2.17	0.45
2:Cx:75:HIS:HA	2:Cx:198:ILE:O	2.17	0.45
3:D0:19:PRO:HB3	4:FZ:30:TYR:CD2	2.52	0.45
3:D0:110:PHE:HB3	3:D0:148:VAL:HG11	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D1:120:PHE:HD2	3:D1:146:TRP:CH2	2.34	0.45
3:D2:134:THR:OG1	3:D2:137:GLU:HG3	2.17	0.45
3:D3:85:LEU:O	3:D3:91:ALA:CB	2.65	0.45
3:D4:160:TYR:C	3:D4:160:TYR:CD1	2.94	0.45
3:D4:198:VAL:HG23	3:D4:199:ASN:H	1.82	0.45
3:D5:13:SER:OG	3:D5:15:MET:CE	2.64	0.45
3:D6:103:SER:HB3	3:D6:159:PRO:CA	2.35	0.45
3:D8:13:SER:OG	3:D8:15:MET:CE	2.64	0.45
3:D8:198:VAL:HG23	3:D8:199:ASN:H	1.82	0.45
3:DC:7:SER:OG	3:DC:11:SER:HB3	2.17	0.45
3:DC:108:PHE:O	3:DC:153:ALA:HA	2.15	0.45
3:DD:13:SER:OG	3:DD:15:MET:CE	2.64	0.45
3:DG:160:TYR:CD1	3:DG:160:TYR:C	2.94	0.45
3:DI:172:ALA:O	3:DI:178:ASN:OD1	2.34	0.45
3:DI:198:VAL:HG23	3:DI:199:ASN:H	1.82	0.45
3:DK:19:PRO:HB3	4:FO:30:TYR:CD2	2.52	0.45
3:DM:97:PHE:CD1	3:DM:216:LEU:HD23	2.51	0.45
3:DP:13:SER:OG	3:DP:15:MET:CE	2.64	0.45
3:DP:19:PRO:HB3	4:FT:30:TYR:CD2	2.52	0.45
3:DP:154:PHE:CG	3:DP:155:SER:N	2.85	0.45
3:DP:198:VAL:HG23	3:DP:199:ASN:H	1.82	0.45
3:DQ:198:VAL:HG23	3:DQ:199:ASN:H	1.82	0.45
3:DR:101:ARG:O	3:DR:101:ARG:HG2	2.17	0.45
3:DU:160:TYR:CD1	3:DU:160:TYR:C	2.94	0.45
3:DV:101:ARG:HG2	3:DV:101:ARG:O	2.17	0.45
3:DV:108:PHE:O	3:DV:153:ALA:HA	2.16	0.45
3:DX:19:PRO:HB3	4:FW:30:TYR:CD2	2.52	0.45
3:DZ:154:PHE:CG	3:DZ:155:SER:N	2.84	0.45
3:DZ:198:VAL:HG23	3:DZ:199:ASN:H	1.82	0.45
3:Db:101:ARG:HG2	3:Db:101:ARG:O	2.17	0.45
3:De:120:PHE:HD2	3:De:146:TRP:CH2	2.34	0.45
3:Dg:85:LEU:O	3:Dg:91:ALA:CB	2.64	0.45
3:Dh:154:PHE:CG	3:Dh:155:SER:N	2.85	0.45
3:Dk:101:ARG:HG2	3:Dk:101:ARG:O	2.17	0.45
3:Dl:85:LEU:O	3:Dl:91:ALA:CB	2.64	0.45
3:Dm:220:VAL:HG12	3:Dm:221:ASP:O	2.15	0.45
3:Do:36:VAL:HA	3:Do:37:PRO:HD3	1.53	0.45
3:Do:56:ILE:CG1	3:Do:74:PHE:CE1	2.98	0.45
3:Dp:43:PHE:O	3:Dp:44:ILE:C	2.60	0.45
3:Dp:97:PHE:CD1	3:Dp:216:LEU:HD23	2.51	0.45
3:Dp:154:PHE:CG	3:Dp:155:SER:N	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dq:172:ALA:O	3:Dq:178:ASN:OD1	2.35	0.45
3:Dr:103:SER:HB2	3:Dr:159:PRO:HA	1.95	0.45
3:Ds:77:ASP:O	3:Ds:79:SER:N	2.50	0.45
3:EA:85:LEU:O	3:EA:91:ALA:CB	2.64	0.45
3:EB:154:PHE:CG	3:EB:155:SER:N	2.84	0.45
3:EC:97:PHE:CD1	3:EC:216:LEU:HD23	2.51	0.45
3:EE:160:TYR:CD1	3:EE:160:TYR:C	2.94	0.45
4:F0:16:GLY:O	4:F0:18:SER:N	2.50	0.45
4:FC:16:GLY:O	4:FC:18:SER:N	2.50	0.45
4:FD:25:PHE:HZ	4:FE:22:VAL:HG11	1.81	0.45
4:FF:25:PHE:HZ	4:FG:22:VAL:HG11	1.81	0.45
4:FP:25:PHE:HZ	4:FQ:22:VAL:HG11	1.81	0.45
4:FT:16:GLY:O	4:FT:18:SER:N	2.50	0.45
4:FW:25:PHE:HZ	4:FX:22:VAL:HG11	1.81	0.45
4:FX:16:GLY:O	4:FX:18:SER:N	2.50	0.45
4:Fv:16:GLY:O	4:Fv:18:SER:N	2.50	0.45
4:Fv:25:PHE:HZ	4:Fw:22:VAL:HG11	1.81	0.45
1:A0:52:PRO:HD3	1:A0:115:THR:O	2.17	0.45
1:A0:107:PHE:HB2	1:A0:194:SER:OG	2.17	0.45
1:A1:22:VAL:CG1	1:A1:23:ASP:N	2.79	0.45
1:A1:45:LEU:HB2	1:A1:202:HIS:HA	1.98	0.45
1:A1:56:VAL:HG13	1:A1:193:GLY:O	2.17	0.45
1:A1:199:SER:C	1:A1:201:ALA:H	2.24	0.45
1:A3:43:LEU:HD23	1:A3:43:LEU:H	1.81	0.45
1:A5:183:THR:HA	1:A5:186:TRP:HB3	1.98	0.45
1:A6:52:PRO:HD3	1:A6:115:THR:O	2.17	0.45
1:A6:137:GLY:HA2	1:A7:38:PHE:CD1	2.48	0.45
1:A7:139:SER:HA	1:A7:140:PRO:HD3	1.62	0.45
1:A8:109:VAL:HG22	1:A8:191:HIS:HD2	1.82	0.45
1:A8:121:LEU:HD21	1:A9:206:GLY:CA	2.47	0.45
1:A8:242:ASN:ND2	1:Ab:110:GLY:H	2.12	0.45
1:A9:199:SER:C	1:A9:201:ALA:H	2.25	0.45
1:AA:143:VAL:H	3:DB:14:PHE:CB	2.28	0.45
1:AA:184:TYR:CE2	2:CA:139:ALA:HB2	2.51	0.45
1:AB:112:PRO:HB2	3:DC:223:PRO:HB3	1.98	0.45
1:AC:107:PHE:HB2	1:AC:194:SER:OG	2.17	0.45
1:AC:165:ARG:HG2	2:CC:180:PRO:O	2.16	0.45
1:AE:107:PHE:HB2	1:AE:194:SER:OG	2.16	0.45
1:AE:187:LEU:HD22	1:AE:188:PRO:N	2.29	0.45
1:AG:183:THR:HA	1:AG:186:TRP:HB3	1.98	0.45
1:AH:165:ARG:HG2	2:CH:180:PRO:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:103:TRP:HB2	1:AI:198:THR:HG23	1.96	0.45
1:AL:137:GLY:HA2	1:AM:38:PHE:CD1	2.48	0.45
1:AM:22:VAL:CG1	1:AM:23:ASP:N	2.79	0.45
1:AM:146:ILE:HG22	1:AM:146:ILE:O	2.17	0.45
1:AM:170:PHE:CD2	1:AM:222:ARG:CZ	2.87	0.45
1:AN:101:PHE:CD2	1:AN:143:VAL:CG1	2.90	0.45
1:AP:83:GLU:C	1:AP:84:LEU:HD12	2.41	0.45
1:AP:170:PHE:CD2	1:AP:222:ARG:NH1	2.85	0.45
1:AQ:7:ASP:O	1:AQ:8:GLY:C	2.59	0.45
1:AR:56:VAL:HG13	1:AR:193:GLY:O	2.17	0.45
1:AS:86:ILE:HD12	1:AS:86:ILE:H	1.72	0.45
1:AU:137:GLY:HA2	1:AV:38:PHE:CD1	2.49	0.45
1:AU:170:PHE:CD2	1:AU:222:ARG:NH1	2.85	0.45
1:AV:83:GLU:C	1:AV:84:LEU:HD12	2.41	0.45
1:AY:183:THR:HA	1:AY:186:TRP:HB3	1.98	0.45
1:Aa:22:VAL:CG1	1:Aa:23:ASP:N	2.79	0.45
1:Aa:83:GLU:C	1:Aa:84:LEU:HD12	2.41	0.45
1:Af:146:ILE:HG22	1:Af:146:ILE:O	2.17	0.45
1:Ai:174:TRP:HB2	2:Ck:188:LEU:CD2	2.44	0.45
1:Ai:199:SER:C	1:Ai:201:ALA:H	2.25	0.45
1:Aj:143:VAL:H	3:Dm:14:PHE:CB	2.28	0.45
1:Al:7:ASP:O	1:Al:8:GLY:C	2.59	0.45
1:Al:83:GLU:C	1:Al:84:LEU:HD12	2.41	0.45
1:Al:219:TYR:HD2	3:Dn:39:ARG:HB2	1.79	0.45
1:Am:22:VAL:CG1	1:Am:23:ASP:N	2.79	0.45
1:An:199:SER:C	1:An:201:ALA:H	2.25	0.45
1:BD:43:LEU:N	1:BD:43:LEU:CD2	2.74	0.45
1:BD:101:PHE:CD2	1:BD:143:VAL:CG1	2.91	0.45
1:BD:109:VAL:HG22	1:BD:191:HIS:HD2	1.82	0.45
1:BD:112:PRO:HB2	3:Do:223:PRO:HB3	1.98	0.45
1:BE:45:LEU:HB2	1:BE:202:HIS:HA	1.98	0.45
1:BE:56:VAL:HG13	1:BE:193:GLY:O	2.17	0.45
1:BF:165:ARG:HG2	2:Cu:180:PRO:O	2.16	0.45
1:BG:224:ILE:HA	1:BG:225:PRO:HD2	1.86	0.45
1:BH:112:PRO:HB2	3:EE:223:PRO:HB3	1.98	0.45
1:BI:26:VAL:HG12	1:BI:27:HIS:N	2.32	0.45
1:BI:107:PHE:HB2	1:BI:194:SER:OG	2.17	0.45
1:BI:139:SER:HA	1:BI:140:PRO:HD3	1.62	0.45
1:BI:170:PHE:CD2	1:BI:222:ARG:NH1	2.85	0.45
2:C2:56:PRO:C	2:C2:57:THR:O	2.59	0.45
2:C2:73:GLN:HA	2:C2:73:GLN:NE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:92:GLY:HA3	2:Cg:228:ASN:OD1	2.16	0.45
2:C4:160:HIS:HE2	3:D4:51:TYR:HE1	1.64	0.45
2:C5:84:PRO:HG3	2:C5:108:TRP:CH2	2.50	0.45
2:CB:75:HIS:NE2	3:DB:59:LYS:HB3	2.30	0.45
2:CC:63:THR:CG2	3:Dn:188:LEU:HD21	2.47	0.45
2:CC:157:VAL:HG23	3:DC:50:THR:HG21	1.99	0.45
2:CC:160:HIS:HE2	3:DC:51:TYR:HE1	1.64	0.45
2:CF:46:THR:CG2	3:DG:165:ASP:HA	2.38	0.45
2:CF:152:TYR:OH	3:DF:60:PRO:HD3	2.17	0.45
2:CG:156:SER:HA	2:CG:160:HIS:CD2	2.52	0.45
2:CG:228:ASN:OD1	2:Ct:92:GLY:HA3	2.16	0.45
2:CH:75:HIS:HA	2:CH:198:ILE:O	2.17	0.45
2:CJ:23:ILE:HD12	2:CJ:23:ILE:H	1.80	0.45
2:CK:63:THR:CG2	3:Db:188:LEU:HD21	2.47	0.45
2:CK:75:HIS:HA	2:CK:198:ILE:O	2.17	0.45
2:CL:92:GLY:HA3	2:Cj:228:ASN:OD1	2.16	0.45
2:CN:57:THR:HG22	2:CN:58:LEU:H	1.82	0.45
2:CO:58:LEU:HB3	2:CO:59:SER:H	1.65	0.45
2:CO:157:VAL:HG23	3:DO:50:THR:HG21	1.99	0.45
2:CS:23:ILE:HD12	2:CS:23:ILE:H	1.80	0.45
2:CS:54:LEU:HD21	2:CS:97:VAL:HG11	1.99	0.45
2:CS:78:ALA:HB1	2:CS:195:VAL:HG12	1.99	0.45
2:CT:39:PRO:HB3	2:CT:176:PRO:HA	1.99	0.45
2:CT:75:HIS:HA	2:CT:198:ILE:O	2.17	0.45
2:CT:156:SER:HA	2:CT:160:HIS:CD2	2.52	0.45
2:Ca:63:THR:CG2	3:DL:188:LEU:HD21	2.47	0.45
2:Ca:212:THR:HG23	3:DL:188:LEU:HD22	1.96	0.45
2:Cb:83:LEU:HA	2:Cb:84:PRO:HA	1.60	0.45
2:Cc:54:LEU:HD21	2:Cc:97:VAL:HG11	1.99	0.45
2:Cc:135:THR:HG23	2:Cc:145:LEU:HD11	1.99	0.45
2:Cd:180:PRO:HD2	2:Cd:189:HIS:HE1	1.76	0.45
2:Cf:84:PRO:HG2	2:Cf:88:LEU:HG	1.97	0.45
2:Cg:63:THR:CG2	3:D3:188:LEU:HD21	2.47	0.45
2:Ch:46:THR:CG2	3:Di:165:ASP:HA	2.38	0.45
2:Cj:69:TRP:CZ3	2:Cj:124:LEU:HD11	2.52	0.45
2:Ck:134:HIS:HB3	2:Ck:135:THR:H	1.47	0.45
2:Cl:63:THR:CG2	3:D8:188:LEU:HD21	2.47	0.45
2:Cl:125:CYS:SG	2:Cl:160:HIS:HD2	2.40	0.45
2:Cl:153:GLN:NE2	3:Dl:55:SER:CB	2.80	0.45
2:Cm:75:HIS:HA	2:Cm:198:ILE:O	2.17	0.45
2:Cn:108:TRP:O	2:Cn:218:ILE:HD12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Co:152:TYR:HB2	2:Co:197:LEU:HD22	1.97	0.45
2:Cp:84:PRO:HG3	2:Cp:108:TRP:CH2	2.50	0.45
2:Cq:58:LEU:HB3	2:Cq:59:SER:H	1.65	0.45
2:Cs:63:THR:CG2	3:EA:188:LEU:HD21	2.47	0.45
2:Cs:156:SER:HA	2:Cs:160:HIS:CD2	2.52	0.45
2:Ct:75:HIS:HA	2:Ct:198:ILE:O	2.17	0.45
2:Ct:83:LEU:HA	2:Ct:84:PRO:HA	1.60	0.45
2:Ct:135:THR:HG23	2:Ct:145:LEU:HD11	1.99	0.45
2:Cu:88:LEU:C	2:Cu:90:LYS:H	2.23	0.45
2:Cu:160:HIS:HE2	3:EB:51:TYR:HE1	1.64	0.45
2:Cv:153:GLN:NE2	3:EC:55:SER:CB	2.80	0.45
2:Cv:157:VAL:HG23	3:EC:50:THR:HG21	1.99	0.45
2:Cx:152:TYR:HB2	2:Cx:197:LEU:HD22	1.97	0.45
3:D0:13:SER:OG	3:D0:15:MET:CE	2.64	0.45
3:D1:85:LEU:O	3:D1:91:ALA:CB	2.64	0.45
3:D1:154:PHE:CG	3:D1:155:SER:N	2.84	0.45
3:D2:172:ALA:O	3:D2:178:ASN:OD1	2.35	0.45
3:D7:97:PHE:HB3	3:D7:218:HIS:O	2.17	0.45
3:D9:97:PHE:CD1	3:D9:216:LEU:HD23	2.51	0.45
3:D9:101:ARG:O	3:D9:101:ARG:HG2	2.17	0.45
3:D9:134:THR:OG1	3:D9:137:GLU:HG3	2.17	0.45
3:DA:97:PHE:CD1	3:DA:216:LEU:HD23	2.51	0.45
3:DA:120:PHE:HD2	3:DA:146:TRP:CH2	2.34	0.45
3:DA:134:THR:OG1	3:DA:137:GLU:HG3	2.17	0.45
3:DB:97:PHE:HB3	3:DB:218:HIS:O	2.17	0.45
3:DC:195:ASP:HB2	3:DC:198:VAL:HG22	1.98	0.45
3:DD:122:VAL:HA	3:DD:185:VAL:HA	1.97	0.45
3:DD:154:PHE:CG	3:DD:155:SER:N	2.84	0.45
3:DH:198:VAL:HG23	3:DH:199:ASN:H	1.82	0.45
3:DI:101:ARG:HG2	3:DI:101:ARG:O	2.17	0.45
3:DI:154:PHE:CG	3:DI:155:SER:N	2.84	0.45
3:DJ:120:PHE:HD2	3:DJ:146:TRP:CH2	2.34	0.45
3:DK:85:LEU:O	3:DK:91:ALA:CB	2.65	0.45
3:DK:160:TYR:C	3:DK:160:TYR:CD1	2.94	0.45
3:DM:101:ARG:O	3:DM:101:ARG:HG2	2.17	0.45
3:DN:134:THR:OG1	3:DN:137:GLU:HG3	2.17	0.45
3:DO:134:THR:OG1	3:DO:137:GLU:HG3	2.17	0.45
3:DP:7:SER:OG	3:DP:11:SER:HB3	2.17	0.45
3:DP:97:PHE:CD1	3:DP:216:LEU:HD23	2.51	0.45
3:DP:110:PHE:HB3	3:DP:148:VAL:HG11	1.96	0.45
3:DQ:77:ASP:O	3:DQ:79:SER:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DQ:195:ASP:HB2	3:DQ:198:VAL:HG22	1.98	0.45
3:DR:154:PHE:CG	3:DR:155:SER:N	2.85	0.45
3:DS:198:VAL:HG23	3:DS:199:ASN:H	1.82	0.45
3:DV:134:THR:OG1	3:DV:137:GLU:HG3	2.17	0.45
3:DX:13:SER:OG	3:DX:15:MET:CE	2.64	0.45
3:DX:97:PHE:CD1	3:DX:216:LEU:HD23	2.51	0.45
3:DY:77:ASP:O	3:DY:79:SER:N	2.50	0.45
3:DY:154:PHE:CG	3:DY:155:SER:N	2.85	0.45
3:Da:77:ASP:O	3:Da:79:SER:N	2.50	0.45
3:Da:154:PHE:CG	3:Da:155:SER:N	2.84	0.45
3:Da:198:VAL:HG23	3:Da:199:ASN:H	1.82	0.45
3:Db:13:SER:OG	3:Db:15:MET:CE	2.64	0.45
3:Db:198:VAL:HG23	3:Db:199:ASN:H	1.82	0.45
3:Dc:43:PHE:O	3:Dc:44:ILE:C	2.60	0.45
3:Dd:160:TYR:CD1	3:Dd:160:TYR:C	2.94	0.45
3:Df:101:ARG:O	3:Df:101:ARG:HG2	2.17	0.45
3:Dg:19:PRO:HB3	4:Ff:30:TYR:CD2	2.52	0.45
3:Dg:101:ARG:O	3:Dg:101:ARG:HG2	2.17	0.45
3:Dj:97:PHE:CD1	3:Dj:216:LEU:HD23	2.51	0.45
3:Dj:101:ARG:HG2	3:Dj:101:ARG:O	2.17	0.45
3:Dl:13:SER:OG	3:Dl:15:MET:CE	2.64	0.45
3:Dm:101:ARG:O	3:Dm:101:ARG:HG2	2.17	0.45
3:Dn:77:ASP:O	3:Dn:79:SER:N	2.50	0.45
3:Dn:134:THR:OG1	3:Dn:137:GLU:HG3	2.17	0.45
3:Dn:198:VAL:HG23	3:Dn:199:ASN:H	1.82	0.45
3:Do:103:SER:HB3	3:Do:159:PRO:C	2.40	0.45
3:Dp:122:VAL:HA	3:Dp:185:VAL:HA	1.97	0.45
3:Dp:198:VAL:HG23	3:Dp:199:ASN:H	1.82	0.45
3:Dr:84:GLU:H	3:Dr:84:GLU:CD	2.21	0.45
3:EA:160:TYR:C	3:EA:160:TYR:CD1	2.94	0.45
3:EC:77:ASP:O	3:EC:79:SER:N	2.50	0.45
3:EC:110:PHE:HB3	3:EC:148:VAL:HG11	1.97	0.45
4:F8:16:GLY:O	4:F8:18:SER:N	2.50	0.45
4:Fo:25:PHE:HZ	4:Fp:22:VAL:HG11	1.81	0.45
1:A3:45:LEU:HB2	1:A3:202:HIS:HA	1.98	0.45
1:A3:199:SER:C	1:A3:201:ALA:H	2.24	0.45
1:A6:143:VAL:H	3:D8:14:PHE:CB	2.28	0.45
1:A6:199:SER:C	1:A6:201:ALA:H	2.25	0.45
1:A7:52:PRO:HD3	1:A7:115:THR:O	2.17	0.45
1:A7:220:CYS:HA	1:A7:221:PRO:HD2	1.82	0.45
1:A9:49:THR:HG22	1:A9:50:GLY:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:22:VAL:CG1	1:AC:23:ASP:N	2.79	0.45
1:AC:45:LEU:HB2	1:AC:202:HIS:HA	1.98	0.45
1:AE:49:THR:HG22	1:AE:50:GLY:H	1.82	0.45
1:AF:30:VAL:CG1	1:AF:218:MET:HE3	2.33	0.45
1:AG:56:VAL:HG13	1:AG:193:GLY:O	2.17	0.45
1:AG:109:VAL:HG22	1:AG:191:HIS:HD2	1.82	0.45
1:AG:199:SER:C	1:AG:201:ALA:H	2.25	0.45
1:AH:49:THR:HG22	1:AH:50:GLY:H	1.82	0.45
1:AH:110:GLY:H	1:AI:242:ASN:ND2	2.12	0.45
1:AI:83:GLU:C	1:AI:84:LEU:HD12	2.41	0.45
1:AJ:7:ASP:O	1:AJ:8:GLY:C	2.59	0.45
1:AJ:52:PRO:HD3	1:AJ:115:THR:O	2.17	0.45
1:AK:170:PHE:CD2	1:AK:222:ARG:NH1	2.85	0.45
1:AM:56:VAL:HG13	1:AM:193:GLY:O	2.17	0.45
1:AN:22:VAL:CG1	1:AN:23:ASP:N	2.79	0.45
1:AN:82:LEU:CD2	1:AN:84:LEU:HD11	2.46	0.45
1:AN:109:VAL:HG22	1:AN:191:HIS:HD2	1.82	0.45
1:AN:146:ILE:HG22	1:AN:146:ILE:O	2.17	0.45
1:AP:87:GLN:O	1:AP:88:PHE:CB	2.62	0.45
1:AQ:170:PHE:CD2	1:AQ:222:ARG:CZ	2.87	0.45
1:AS:22:VAL:CG1	1:AS:23:ASP:N	2.79	0.45
1:AS:109:VAL:HG22	1:AS:191:HIS:HD2	1.82	0.45
1:AT:83:GLU:C	1:AT:84:LEU:HD12	2.41	0.45
1:AT:199:SER:C	1:AT:201:ALA:H	2.25	0.45
1:AU:56:VAL:HG13	1:AU:193:GLY:O	2.17	0.45
1:AV:183:THR:HA	1:AV:186:TRP:HB3	1.98	0.45
1:AW:45:LEU:HB2	1:AW:202:HIS:HA	1.98	0.45
1:AW:170:PHE:CD2	1:AW:222:ARG:NH1	2.85	0.45
1:AX:170:PHE:CD2	1:AX:222:ARG:CZ	2.87	0.45
1:AY:22:VAL:CG1	1:AY:23:ASP:N	2.79	0.45
1:Aa:26:VAL:HG12	1:Aa:27:HIS:N	2.32	0.45
1:Ad:45:LEU:HB2	1:Ad:202:HIS:HA	1.98	0.45
1:Ad:110:GLY:H	1:Ae:242:ASN:ND2	2.12	0.45
1:Ad:170:PHE:CD2	1:Ad:222:ARG:NH1	2.85	0.45
1:Ae:101:PHE:CD2	1:Ae:143:VAL:CG1	2.91	0.45
1:Ae:224:ILE:HA	1:Ae:225:PRO:HD2	1.86	0.45
1:Ah:83:GLU:C	1:Ah:84:LEU:HD12	2.41	0.45
1:Ai:22:VAL:CG1	1:Ai:23:ASP:N	2.79	0.45
1:Ai:170:PHE:CD2	1:Ai:222:ARG:NH1	2.85	0.45
1:Aj:112:PRO:HB2	3:Dm:223:PRO:HB3	1.97	0.45
1:Aj:170:PHE:CD2	1:Aj:222:ARG:NH1	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:170:PHE:CD2	1:Ak:222:ARG:NH1	2.85	0.45
1:Al:43:LEU:HD23	1:Al:43:LEU:H	1.81	0.45
1:Al:112:PRO:HB2	3:Dj:223:PRO:HB3	1.97	0.45
1:Al:170:PHE:CD2	1:Al:222:ARG:NH1	2.85	0.45
1:Am:109:VAL:HG22	1:Am:191:HIS:HD2	1.82	0.45
1:Am:170:PHE:CD2	1:Am:222:ARG:NH1	2.85	0.45
1:An:26:VAL:HG12	1:An:27:HIS:N	2.32	0.45
1:An:56:VAL:HG13	1:An:193:GLY:O	2.17	0.45
1:An:170:PHE:CD2	1:An:222:ARG:NH1	2.85	0.45
1:Ao:112:PRO:HB2	3:DT:223:PRO:HB3	1.98	0.45
1:Ao:183:THR:HA	1:Ao:186:TRP:HB3	1.99	0.45
1:BA:26:VAL:HG12	1:BA:27:HIS:N	2.32	0.45
1:BB:49:THR:HG22	1:BB:50:GLY:H	1.82	0.45
1:BB:187:LEU:HD22	1:BB:188:PRO:N	2.30	0.45
1:BD:83:GLU:C	1:BD:84:LEU:HD12	2.41	0.45
1:BD:103:TRP:HB2	1:BD:198:THR:HG23	1.96	0.45
1:BG:22:VAL:CG1	1:BG:23:ASP:N	2.79	0.45
1:BG:184:TYR:CE2	2:Cv:139:ALA:HB2	2.51	0.45
1:BH:56:VAL:HG13	1:BH:193:GLY:O	2.17	0.45
1:BH:170:PHE:CD2	1:BH:222:ARG:NH1	2.85	0.45
1:BI:52:PRO:HD3	1:BI:115:THR:O	2.17	0.45
2:C0:69:TRP:CZ3	2:C0:124:LEU:HD11	2.52	0.45
2:C2:39:PRO:HB3	2:C2:176:PRO:HA	1.99	0.45
2:C2:54:LEU:HB2	2:C2:220:ALA:HB3	1.99	0.45
2:C2:135:THR:HG23	2:C2:145:LEU:HD11	1.99	0.45
2:C5:153:GLN:NE2	3:D5:55:SER:CB	2.80	0.45
2:C5:212:THR:HG23	3:DG:188:LEU:HD22	1.96	0.45
2:C6:95:HIS:C	2:C6:95:HIS:CD2	2.93	0.45
2:C6:108:TRP:O	2:C6:218:ILE:HD12	2.17	0.45
2:C6:156:SER:HA	2:C6:160:HIS:CD2	2.52	0.45
2:C8:54:LEU:HB2	2:C8:220:ALA:HB3	1.99	0.45
2:C8:152:TYR:HB2	2:C8:197:LEU:HD22	1.98	0.45
2:C8:156:SER:HA	2:C8:160:HIS:CD2	2.52	0.45
2:C9:57:THR:HG22	2:C9:58:LEU:H	1.82	0.45
2:C9:108:TRP:O	2:C9:218:ILE:HD12	2.16	0.45
2:C9:157:VAL:HG23	3:D9:50:THR:HG21	1.99	0.45
2:CC:54:LEU:HB2	2:CC:220:ALA:HB3	1.99	0.45
2:CC:75:HIS:HA	2:CC:198:ILE:O	2.17	0.45
2:CE:69:TRP:CZ3	2:CE:124:LEU:HD11	2.52	0.45
2:CE:156:SER:HA	2:CE:160:HIS:CD2	2.52	0.45
2:CF:69:TRP:CZ3	2:CF:124:LEU:HD11	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:108:TRP:O	2:CG:218:ILE:HD12	2.16	0.45
2:CH:54:LEU:HB2	2:CH:220:ALA:HB3	1.99	0.45
2:CH:135:THR:HG23	2:CH:145:LEU:HD11	1.99	0.45
2:CH:152:TYR:OH	3:DH:60:PRO:HD3	2.17	0.45
2:CH:153:GLN:NE2	3:DH:55:SER:CB	2.80	0.45
2:CH:157:VAL:HG23	3:DH:50:THR:HG21	1.99	0.45
2:CI:54:LEU:HD21	2:CI:97:VAL:HG11	1.99	0.45
2:CI:84:PRO:HG3	2:CI:108:TRP:CH2	2.50	0.45
2:CJ:65:LYS:CB	3:DA:135:ARG:HH21	2.29	0.45
2:CJ:69:TRP:CZ3	2:CJ:124:LEU:HD11	2.52	0.45
2:CJ:108:TRP:O	2:CJ:218:ILE:HD12	2.17	0.45
2:CK:153:GLN:NE2	3:DK:55:SER:CB	2.80	0.45
2:CK:160:HIS:HD1	2:CK:160:HIS:N	2.14	0.45
2:CL:69:TRP:CZ3	2:CL:124:LEU:HD11	2.52	0.45
2:CM:153:GLN:NE2	3:DM:55:SER:CB	2.80	0.45
2:CP:63:THR:CG2	3:D1:188:LEU:HD21	2.47	0.45
2:CP:125:CYS:SG	2:CP:160:HIS:HD2	2.40	0.45
2:CQ:160:HIS:HE2	3:DQ:51:TYR:HE1	1.64	0.45
2:CR:157:VAL:HG23	3:DR:50:THR:HG21	1.99	0.45
2:CS:75:HIS:NE2	3:DS:59:LYS:HB3	2.30	0.45
2:CT:78:ALA:HB1	2:CT:195:VAL:HG12	1.99	0.45
2:CV:75:HIS:HA	2:CV:198:ILE:O	2.17	0.45
2:CW:39:PRO:HB3	2:CW:176:PRO:HA	1.99	0.45
2:CY:63:THR:CG2	3:DZ:188:LEU:HD21	2.47	0.45
2:CY:108:TRP:O	2:CY:218:ILE:HD12	2.17	0.45
2:CY:153:GLN:NE2	3:DY:55:SER:CB	2.80	0.45
2:CZ:212:THR:HG23	3:Dq:188:LEU:HD22	1.96	0.45
2:Cb:54:LEU:HB2	2:Cb:220:ALA:HB3	1.99	0.45
2:Cb:157:VAL:HG23	3:Db:50:THR:HG21	1.99	0.45
2:Cd:152:TYR:OH	3:Dd:60:PRO:HD3	2.17	0.45
2:Ce:54:LEU:HB2	2:Ce:220:ALA:HB3	1.99	0.45
2:Cf:57:THR:HG22	2:Cf:58:LEU:H	1.82	0.45
2:Cg:83:LEU:HA	2:Cg:84:PRO:HA	1.60	0.45
2:Cg:84:PRO:HG3	2:Cg:108:TRP:CH2	2.50	0.45
2:Ch:160:HIS:HE2	3:Dh:51:TYR:HE1	1.64	0.45
2:Ci:54:LEU:HB2	2:Ci:220:ALA:HB3	1.99	0.45
2:Ck:156:SER:HA	2:Ck:160:HIS:CD2	2.52	0.45
2:Cm:54:LEU:HB2	2:Cm:220:ALA:HB3	1.99	0.45
2:Co:57:THR:HG22	2:Co:58:LEU:H	1.82	0.45
2:Co:69:TRP:CZ3	2:Co:124:LEU:HD11	2.52	0.45
2:Cp:54:LEU:HD21	2:Cp:97:VAL:HG11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cp:180:PRO:HD2	2:Cp:189:HIS:HE1	1.76	0.45
2:Cq:23:ILE:HD12	2:Cq:23:ILE:H	1.80	0.45
2:Cq:75:HIS:HA	2:Cq:198:ILE:O	2.17	0.45
2:Cq:84:PRO:HG3	2:Cq:108:TRP:CH2	2.50	0.45
2:Cq:108:TRP:O	2:Cq:218:ILE:HD12	2.17	0.45
2:Cq:156:SER:HA	2:Cq:160:HIS:CD2	2.52	0.45
2:Cr:108:TRP:O	2:Cr:218:ILE:HD12	2.17	0.45
2:Ct:152:TYR:OH	3:EA:60:PRO:HD3	2.17	0.45
2:Cu:54:LEU:HD21	2:Cu:97:VAL:HG11	1.99	0.45
2:Cw:75:HIS:HA	2:Cw:198:ILE:O	2.17	0.45
2:Cw:95:HIS:CD2	2:Cw:95:HIS:C	2.92	0.45
3:D0:85:LEU:O	3:D0:91:ALA:CB	2.65	0.45
3:D1:19:PRO:HB3	4:F0:30:TYR:CD2	2.52	0.45
3:D1:198:VAL:HG23	3:D1:199:ASN:H	1.82	0.45
3:D2:7:SER:OG	3:D2:11:SER:HB3	2.17	0.45
3:D3:56:ILE:CG1	3:D3:74:PHE:CE1	2.98	0.45
3:D3:195:ASP:HB2	3:D3:198:VAL:HG22	1.98	0.45
3:D5:110:PHE:HB3	3:D5:148:VAL:HG11	1.96	0.45
3:D6:19:PRO:HB3	4:F5:30:TYR:CD2	2.52	0.45
3:D8:7:SER:OG	3:D8:11:SER:HB3	2.17	0.45
3:D8:77:ASP:O	3:D8:79:SER:N	2.50	0.45
3:D8:195:ASP:HB2	3:D8:198:VAL:HG22	1.98	0.45
3:D9:85:LEU:O	3:D9:91:ALA:CB	2.64	0.45
3:D9:198:VAL:HG23	3:D9:199:ASN:H	1.82	0.45
3:DA:77:ASP:O	3:DA:79:SER:N	2.50	0.45
3:DA:101:ARG:HG2	3:DA:101:ARG:O	2.17	0.45
3:DB:120:PHE:HD2	3:DB:146:TRP:CH2	2.34	0.45
3:DD:7:SER:OG	3:DD:11:SER:HB3	2.17	0.45
3:DE:85:LEU:O	3:DE:91:ALA:CB	2.64	0.45
3:DF:97:PHE:CD1	3:DF:216:LEU:HD23	2.51	0.45
3:DJ:198:VAL:HG23	3:DJ:199:ASN:H	1.82	0.45
3:DL:19:PRO:HB3	4:FK:30:TYR:CD2	2.52	0.45
3:DL:195:ASP:HB2	3:DL:198:VAL:HG22	1.98	0.45
3:DM:134:THR:OG1	3:DM:137:GLU:HG3	2.17	0.45
3:DN:77:ASP:O	3:DN:79:SER:N	2.50	0.45
3:DO:77:ASP:O	3:DO:79:SER:N	2.50	0.45
3:DO:97:PHE:CD1	3:DO:216:LEU:HD23	2.51	0.45
3:DR:122:VAL:HG22	3:DR:123:ALA:N	2.30	0.45
3:DU:19:PRO:HB3	4:FY:30:TYR:CD2	2.52	0.45
3:DU:97:PHE:CD1	3:DU:216:LEU:HD23	2.52	0.45
3:DU:97:PHE:HB3	3:DU:218:HIS:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DW:101:ARG:HG2	3:DW:101:ARG:O	2.17	0.45
3:DX:7:SER:OG	3:DX:11:SER:HB3	2.17	0.45
3:Da:97:PHE:CD1	3:Da:216:LEU:HD23	2.51	0.45
3:Dc:172:ALA:O	3:Dc:178:ASN:OD1	2.35	0.45
3:Dd:134:THR:OG1	3:Dd:137:GLU:HG3	2.17	0.45
3:De:179:VAL:HG12	3:De:181:GLY:N	2.32	0.45
3:Df:43:PHE:O	3:Df:44:ILE:C	2.60	0.45
3:Df:103:SER:HB3	3:Df:159:PRO:CA	2.35	0.45
3:Dg:97:PHE:HB3	3:Dg:218:HIS:O	2.17	0.45
3:Dg:134:THR:OG1	3:Dg:137:GLU:HG3	2.17	0.45
3:Dh:134:THR:OG1	3:Dh:137:GLU:HG3	2.17	0.45
3:Di:77:ASP:O	3:Di:79:SER:N	2.50	0.45
3:Dj:85:LEU:O	3:Dj:91:ALA:CB	2.65	0.45
3:Dl:108:PHE:O	3:Dl:153:ALA:HA	2.15	0.45
3:Dm:97:PHE:HB3	3:Dm:218:HIS:O	2.17	0.45
3:Do:172:ALA:O	3:Do:178:ASN:OD1	2.35	0.45
3:Do:195:ASP:HB2	3:Do:198:VAL:HG22	1.98	0.45
3:Dr:75:GLN:NE2	3:Dr:184:GLN:OE1	2.49	0.45
3:Ds:19:PRO:HB3	4:Fr:30:TYR:CD2	2.52	0.45
3:EB:101:ARG:HG2	3:EB:101:ARG:O	2.17	0.45
3:EB:134:THR:OG1	3:EB:137:GLU:HG3	2.17	0.45
3:EC:172:ALA:O	3:EC:178:ASN:OD1	2.34	0.45
3:ED:56:ILE:CG1	3:ED:74:PHE:CE1	2.98	0.45
3:ED:122:VAL:HG22	3:ED:123:ALA:N	2.30	0.45
4:FF:16:GLY:O	4:FF:18:SER:N	2.50	0.45
4:FI:25:PHE:HZ	4:FJ:22:VAL:HG11	1.81	0.45
4:FM:16:GLY:O	4:FM:18:SER:N	2.50	0.45
4:Fd:16:GLY:O	4:Fd:18:SER:N	2.50	0.45
4:Ff:16:GLY:O	4:Ff:18:SER:N	2.50	0.45
4:Fg:16:GLY:O	4:Fg:18:SER:N	2.50	0.45
4:Fh:16:GLY:O	4:Fh:18:SER:N	2.50	0.45
4:Fq:25:PHE:HZ	4:Fr:22:VAL:HG11	1.81	0.45
4:Ft:22:VAL:HG11	4:Fx:25:PHE:HZ	1.81	0.45
1:A0:143:VAL:H	3:D2:14:PHE:CB	2.28	0.45
1:A1:146:ILE:HG22	1:A1:146:ILE:O	2.17	0.45
1:A2:146:ILE:O	1:A2:146:ILE:HG22	2.17	0.45
1:A3:7:ASP:O	1:A3:8:GLY:C	2.59	0.45
1:A3:56:VAL:HG13	1:A3:193:GLY:O	2.17	0.45
1:A5:101:PHE:CD2	1:A5:143:VAL:CG1	2.91	0.45
1:A5:137:GLY:HA2	1:A6:38:PHE:CD1	2.49	0.45
1:A6:26:VAL:HG12	1:A6:27:HIS:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:7:ASP:O	1:A8:8:GLY:C	2.59	0.45
1:A8:101:PHE:CD2	1:A8:143:VAL:CG1	2.91	0.45
1:AB:121:LEU:HD21	1:AC:206:GLY:CA	2.47	0.45
1:AC:112:PRO:HB2	3:DD:223:PRO:HB3	1.98	0.45
1:AD:52:PRO:HD3	1:AD:115:THR:O	2.17	0.45
1:AE:86:ILE:HD12	1:AE:86:ILE:H	1.73	0.45
1:AF:26:VAL:HG12	1:AF:27:HIS:N	2.32	0.45
1:AF:92:THR:HB	1:AF:93:THR:H	1.62	0.45
1:AG:52:PRO:HD3	1:AG:115:THR:O	2.17	0.45
1:AG:146:ILE:HG22	1:AG:146:ILE:O	2.17	0.45
1:AH:26:VAL:HG12	1:AH:27:HIS:N	2.32	0.45
1:AH:55:HIS:O	1:AH:194:SER:HB2	2.17	0.45
1:AH:109:VAL:HG22	1:AH:191:HIS:HD2	1.82	0.45
1:AH:219:TYR:HD2	3:DH:39:ARG:HB2	1.79	0.45
1:AI:56:VAL:HG13	1:AI:193:GLY:O	2.17	0.45
1:AI:219:TYR:HD2	3:DI:39:ARG:HB2	1.79	0.45
1:AJ:83:GLU:C	1:AJ:84:LEU:HD12	2.41	0.45
1:AL:170:PHE:CD2	1:AL:222:ARG:NH1	2.85	0.45
1:AM:83:GLU:C	1:AM:84:LEU:HD12	2.41	0.45
1:AM:170:PHE:CD2	1:AM:222:ARG:NH1	2.85	0.45
1:AO:26:VAL:HG12	1:AO:27:HIS:N	2.32	0.45
1:AP:107:PHE:HB2	1:AP:194:SER:OG	2.16	0.45
1:AP:199:SER:C	1:AP:201:ALA:H	2.24	0.45
1:AR:112:PRO:HB2	3:DS:223:PRO:HB3	1.97	0.45
1:AR:170:PHE:CD2	1:AR:222:ARG:NH1	2.85	0.45
1:AT:30:VAL:CG1	1:AT:218:MET:HE3	2.33	0.45
1:AV:52:PRO:HD3	1:AV:115:THR:O	2.17	0.45
1:AW:137:GLY:HA2	1:AX:38:PHE:CD1	2.49	0.45
1:AY:7:ASP:O	1:AY:8:GLY:C	2.59	0.45
1:AY:107:PHE:HB2	1:AY:194:SER:OG	2.17	0.45
1:AY:121:LEU:HD21	1:AZ:206:GLY:CA	2.47	0.45
1:Ab:109:VAL:HG22	1:Ab:191:HIS:HD2	1.82	0.45
1:Ac:109:VAL:HG22	1:Ac:191:HIS:HD2	1.82	0.45
1:Ac:170:PHE:CD2	1:Ac:222:ARG:NH1	2.85	0.45
1:Ad:7:ASP:O	1:Ad:8:GLY:C	2.59	0.45
1:Ad:170:PHE:CD2	1:Ad:222:ARG:CZ	2.87	0.45
1:Ae:121:LEU:HD21	1:Af:206:GLY:CA	2.47	0.45
1:Af:83:GLU:C	1:Af:84:LEU:HD12	2.41	0.45
1:Ag:7:ASP:O	1:Ag:8:GLY:C	2.59	0.45
1:Ag:52:PRO:HD3	1:Ag:115:THR:O	2.17	0.45
1:Ah:112:PRO:HB2	3:Dk:223:PRO:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:52:PRO:HD3	1:Ai:115:THR:O	2.17	0.45
1:Ak:109:VAL:HG22	1:Ak:191:HIS:HD2	1.82	0.45
1:Al:109:VAL:HG22	1:Al:191:HIS:HD2	1.82	0.45
1:BC:82:LEU:CD2	1:BC:84:LEU:HD11	2.46	0.45
1:BC:107:PHE:HB2	1:BC:194:SER:OG	2.17	0.45
1:BC:146:ILE:HG22	1:BC:146:ILE:O	2.17	0.45
1:BF:43:LEU:N	1:BF:43:LEU:CD2	2.74	0.45
1:BF:52:PRO:HD3	1:BF:115:THR:O	2.17	0.45
1:BG:56:VAL:HG13	1:BG:193:GLY:O	2.17	0.45
2:C0:84:PRO:HG3	2:C0:108:TRP:CH2	2.50	0.45
2:C0:108:TRP:O	2:C0:218:ILE:HD12	2.17	0.45
2:C1:54:LEU:HB2	2:C1:220:ALA:HB3	1.99	0.45
2:C1:75:HIS:HA	2:C1:198:ILE:O	2.17	0.45
2:C1:108:TRP:O	2:C1:218:ILE:HD12	2.16	0.45
2:C3:212:THR:HG23	3:DU:188:LEU:HD22	1.96	0.45
2:C4:39:PRO:HB3	2:C4:176:PRO:HA	1.99	0.45
2:C4:54:LEU:HB2	2:C4:220:ALA:HB3	1.99	0.45
2:C7:216:ALA:HA	2:C7:217:PRO:HD3	1.78	0.45
2:CA:152:TYR:OH	3:DA:60:PRO:HD3	2.17	0.45
2:CB:54:LEU:HB2	2:CB:220:ALA:HB3	1.99	0.45
2:CB:75:HIS:HA	2:CB:198:ILE:O	2.17	0.45
2:CB:129:VAL:HA	2:CB:130:PRO:HD3	1.78	0.45
2:CB:156:SER:HA	2:CB:160:HIS:CD2	2.52	0.45
2:CC:156:SER:HA	2:CC:160:HIS:CD2	2.52	0.45
2:CD:54:LEU:HD21	2:CD:97:VAL:HG11	1.99	0.45
2:CD:78:ALA:HB1	2:CD:195:VAL:HG12	1.99	0.45
2:CD:153:GLN:NE2	3:DD:55:SER:CB	2.80	0.45
2:CD:160:HIS:HD1	2:CD:160:HIS:N	2.14	0.45
2:CH:56:PRO:C	2:CH:57:THR:O	2.59	0.45
2:CH:69:TRP:CZ3	2:CH:124:LEU:HD11	2.52	0.45
2:CH:160:HIS:HE2	3:DH:51:TYR:HE1	1.64	0.45
2:CI:39:PRO:HB3	2:CI:176:PRO:HA	1.99	0.45
2:CI:63:THR:CG2	3:DX:188:LEU:HD21	2.47	0.45
2:CI:125:CYS:SG	2:CI:160:HIS:HD2	2.40	0.45
2:CJ:46:THR:CG2	3:DF:165:ASP:HA	2.38	0.45
2:CJ:153:GLN:NE2	3:DJ:55:SER:CB	2.80	0.45
2:CJ:156:SER:HA	2:CJ:160:HIS:CD2	2.52	0.45
2:CL:78:ALA:HB1	2:CL:195:VAL:HG12	1.99	0.45
2:CL:157:VAL:HG23	3:DL:50:THR:HG21	1.99	0.45
2:CN:75:HIS:HA	2:CN:198:ILE:O	2.17	0.45
2:CO:54:LEU:HB2	2:CO:220:ALA:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CO:69:TRP:CZ3	2:CO:124:LEU:HD11	2.52	0.45
2:CO:160:HIS:HE2	3:DO:51:TYR:HE1	1.64	0.45
2:CP:36:TYR:CE2	2:CP:130:PRO:CG	2.98	0.45
2:CQ:156:SER:HA	2:CQ:160:HIS:CD2	2.52	0.45
2:CQ:228:ASN:OD1	2:Co:92:GLY:HA3	2.16	0.45
2:CR:75:HIS:HA	2:CR:198:ILE:O	2.17	0.45
2:CR:153:GLN:NE2	3:DR:55:SER:CB	2.80	0.45
2:CS:57:THR:HG22	2:CS:58:LEU:H	1.82	0.45
2:CT:54:LEU:HB2	2:CT:220:ALA:HB3	1.99	0.45
2:CT:63:THR:CG2	3:DK:188:LEU:HD21	2.47	0.45
2:CU:54:LEU:HD21	2:CU:97:VAL:HG11	1.99	0.45
2:CV:78:ALA:HB1	2:CV:195:VAL:HG12	1.99	0.45
2:CV:108:TRP:O	2:CV:218:ILE:HD12	2.17	0.45
2:CW:57:THR:HG22	2:CW:58:LEU:H	1.82	0.45
2:CX:75:HIS:HA	2:CX:198:ILE:O	2.17	0.45
2:CZ:57:THR:HG22	2:CZ:58:LEU:H	1.82	0.45
2:CZ:84:PRO:HD3	2:CZ:108:TRP:CZ2	2.49	0.45
2:CZ:92:GLY:HA3	2:Cp:228:ASN:OD1	2.16	0.45
2:Ca:160:HIS:HE2	3:Da:51:TYR:HE1	1.64	0.45
2:Cb:125:CYS:SG	2:Cb:160:HIS:HD2	2.40	0.45
2:Cb:152:TYR:OH	3:Db:60:PRO:HD3	2.17	0.45
2:Cb:153:GLN:NE2	3:Db:55:SER:CB	2.80	0.45
2:Cb:156:SER:HA	2:Cb:160:HIS:CD2	2.52	0.45
2:Cc:57:THR:HG22	2:Cc:58:LEU:H	1.82	0.45
2:Cc:152:TYR:OH	3:Dc:60:PRO:HD3	2.17	0.45
2:Cc:39:PRO:HB3	2:Cc:176:PRO:HA	1.99	0.45
2:Cc:135:THR:HG23	2:Cc:145:LEU:HD11	1.99	0.45
2:Cf:63:THR:CG2	3:DV:188:LEU:HD21	2.47	0.45
2:Cf:65:LYS:CB	3:DV:135:ARG:HH21	2.29	0.45
2:Cf:75:HIS:HA	2:Cf:198:ILE:O	2.17	0.45
2:Cf:135:THR:HG23	2:Cf:145:LEU:HD11	1.99	0.45
2:Cg:88:LEU:C	2:Cg:90:LYS:H	2.23	0.45
2:Ci:54:LEU:HD21	2:Ci:97:VAL:HG11	1.99	0.45
2:Ci:92:GLY:HA3	2:Cn:228:ASN:OD1	2.16	0.45
2:Cj:57:THR:HG22	2:Cj:58:LEU:H	1.82	0.45
2:Cj:156:SER:HA	2:Cj:160:HIS:CD2	2.52	0.45
2:Ck:39:PRO:HB3	2:Ck:176:PRO:HA	1.99	0.45
2:Cl:69:TRP:CZ3	2:Cl:124:LEU:HD11	2.52	0.45
2:Cm:65:LYS:CB	3:DD:135:ARG:HH21	2.29	0.45
2:Cm:88:LEU:C	2:Cm:90:LYS:H	2.23	0.45
2:Cm:125:CYS:SG	2:Cm:160:HIS:HD2	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Co:54:LEU:HB2	2:Co:220:ALA:HB3	1.99	0.45
2:Co:63:THR:CG2	3:DR:188:LEU:HD21	2.47	0.45
2:Co:75:HIS:HA	2:Co:198:ILE:O	2.17	0.45
2:Co:156:SER:HA	2:Co:160:HIS:CD2	2.52	0.45
2:Co:157:VAL:HG23	3:Do:50:THR:HG21	1.99	0.45
2:Cp:54:LEU:HB2	2:Cp:220:ALA:HB3	1.99	0.45
2:Cp:212:THR:HG22	2:Cp:213:MET:N	2.30	0.45
2:Cr:156:SER:HA	2:Cr:160:HIS:CD2	2.52	0.45
2:Cs:54:LEU:HD21	2:Cs:97:VAL:HG11	1.99	0.45
2:Cs:54:LEU:HB2	2:Cs:220:ALA:HB3	1.99	0.45
2:Cs:108:TRP:O	2:Cs:218:ILE:HD12	2.17	0.45
2:Cs:153:GLN:NE2	3:Ds:55:SER:CB	2.80	0.45
2:Ct:57:THR:HG22	2:Ct:58:LEU:H	1.82	0.45
2:Ct:108:TRP:O	2:Ct:218:ILE:HD12	2.17	0.45
2:Cu:57:THR:HG22	2:Cu:58:LEU:H	1.82	0.45
2:Cv:13:ARG:HA	2:Cv:13:ARG:HD3	1.72	0.45
2:Cv:54:LEU:HB2	2:Cv:220:ALA:HB3	1.99	0.45
2:Cv:69:TRP:CZ3	2:Cv:124:LEU:HD11	2.52	0.45
2:Cv:75:HIS:NE2	3:EC:59:LYS:HB3	2.30	0.45
2:Cw:135:THR:HG23	2:Cw:145:LEU:HD11	1.98	0.45
2:Cx:39:PRO:HB3	2:Cx:176:PRO:HA	1.99	0.45
2:Cx:88:LEU:C	2:Cx:90:LYS:H	2.24	0.45
3:D1:7:SER:OG	3:D1:11:SER:HB3	2.17	0.45
3:D3:154:PHE:CG	3:D3:155:SER:N	2.84	0.45
3:D3:179:VAL:HG12	3:D3:181:GLY:N	2.32	0.45
3:D5:7:SER:OG	3:D5:11:SER:HB3	2.17	0.45
3:D5:154:PHE:CG	3:D5:155:SER:N	2.84	0.45
3:D7:122:VAL:HG22	3:D7:123:ALA:N	2.30	0.45
3:D8:101:ARG:O	3:D8:101:ARG:HG2	2.17	0.45
3:DA:154:PHE:CG	3:DA:155:SER:N	2.84	0.45
3:DB:7:SER:OG	3:DB:11:SER:HB3	2.17	0.45
3:DB:56:ILE:CG1	3:DB:74:PHE:CE1	2.98	0.45
3:DC:154:PHE:CG	3:DC:155:SER:N	2.84	0.45
3:DD:103:SER:HB3	3:DD:159:PRO:C	2.40	0.45
3:DE:77:ASP:O	3:DE:79:SER:N	2.50	0.45
3:DE:198:VAL:HG23	3:DE:199:ASN:H	1.82	0.45
3:DF:13:SER:OG	3:DF:15:MET:CE	2.64	0.45
3:DI:19:PRO:HB3	4:FH:30:TYR:CD2	2.52	0.45
3:DI:160:TYR:C	3:DI:160:TYR:CD1	2.94	0.45
3:DJ:154:PHE:CG	3:DJ:155:SER:N	2.85	0.45
3:DL:77:ASP:O	3:DL:79:SER:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:97:PHE:HB3	3:DL:218:HIS:O	2.17	0.45
3:DM:85:LEU:O	3:DM:91:ALA:CB	2.64	0.45
3:DP:97:PHE:HB3	3:DP:218:HIS:O	2.17	0.45
3:DQ:220:VAL:HG12	3:DQ:221:ASP:O	2.15	0.45
3:DR:172:ALA:O	3:DR:178:ASN:OD1	2.35	0.45
3:DS:134:THR:OG1	3:DS:137:GLU:HG3	2.17	0.45
3:DT:97:PHE:CD1	3:DT:216:LEU:HD23	2.51	0.45
3:DT:108:PHE:O	3:DT:153:ALA:HA	2.15	0.45
3:DU:7:SER:OG	3:DU:11:SER:HB3	2.17	0.45
3:DU:85:LEU:O	3:DU:91:ALA:CB	2.64	0.45
3:DU:198:VAL:HG23	3:DU:199:ASN:H	1.82	0.45
3:DV:77:ASP:O	3:DV:79:SER:N	2.50	0.45
3:DV:103:SER:HB2	3:DV:159:PRO:HA	1.95	0.45
3:DV:154:PHE:CG	3:DV:155:SER:N	2.84	0.45
3:DX:97:PHE:HB3	3:DX:218:HIS:O	2.17	0.45
3:DY:103:SER:HB3	3:DY:159:PRO:CA	2.35	0.45
3:DY:179:VAL:HG12	3:DY:181:GLY:N	2.32	0.45
3:DZ:103:SER:HB3	3:DZ:159:PRO:CA	2.35	0.45
3:Da:19:PRO:HG3	4:Fa:17:ASN:ND2	2.26	0.45
3:Dc:13:SER:OG	3:Dc:15:MET:CE	2.64	0.45
3:Dh:19:PRO:HB3	4:Fg:30:TYR:CD2	2.52	0.45
3:Dh:97:PHE:CD1	3:Dh:216:LEU:HD23	2.51	0.45
3:Dj:134:THR:OG1	3:Dj:137:GLU:HG3	2.17	0.45
3:Dk:19:PRO:HB3	4:Fj:30:TYR:CD2	2.52	0.45
3:Dk:97:PHE:CD1	3:Dk:216:LEU:HD23	2.51	0.45
3:Dk:134:THR:OG1	3:Dk:137:GLU:HG3	2.17	0.45
3:Dk:198:VAL:HG23	3:Dk:199:ASN:H	1.81	0.45
3:Dm:134:THR:OG1	3:Dm:137:GLU:HG3	2.17	0.45
3:Dn:85:LEU:O	3:Dn:91:ALA:CB	2.64	0.45
3:Dq:121:LEU:C	3:Dq:121:LEU:CD2	2.89	0.45
3:EA:19:PRO:HB3	4:Fx:30:TYR:CD2	2.52	0.45
3:EB:56:ILE:CG1	3:EB:74:PHE:CE1	2.98	0.45
3:EB:179:VAL:HG12	3:EB:181:GLY:N	2.33	0.45
3:EC:85:LEU:O	3:EC:91:ALA:CB	2.65	0.45
3:EC:160:TYR:CD1	3:EC:160:TYR:C	2.94	0.45
4:F6:16:GLY:O	4:F6:18:SER:N	2.50	0.45
4:FB:16:GLY:O	4:FB:18:SER:N	2.50	0.45
4:FC:25:PHE:HZ	4:FD:22:VAL:HG11	1.81	0.45
4:FN:32:ASN:HB3	4:FN:33:SER:H	1.58	0.45
4:FT:32:ASN:HB3	4:FT:33:SER:H	1.58	0.45
4:FZ:16:GLY:O	4:FZ:18:SER:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Fi:16:GLY:O	4:Fi:18:SER:N	2.50	0.45
4:Fq:32:ASN:HB3	4:Fq:33:SER:H	1.58	0.45
4:Fu:16:GLY:O	4:Fu:18:SER:N	2.50	0.45
1:A0:121:LEU:HD21	1:A1:206:GLY:CA	2.47	0.44
1:A2:22:VAL:HG12	1:A2:23:ASP:N	2.33	0.44
1:A4:170:PHE:CD2	1:A4:222:ARG:NH1	2.85	0.44
1:A6:45:LEU:HB2	1:A6:202:HIS:HA	1.98	0.44
1:A6:101:PHE:CD2	1:A6:143:VAL:CG1	2.91	0.44
1:A6:170:PHE:CD2	1:A6:222:ARG:NH1	2.85	0.44
1:A8:143:VAL:H	3:Da:14:PHE:CB	2.28	0.44
1:A9:101:PHE:CD2	1:A9:143:VAL:CG1	2.91	0.44
1:A9:107:PHE:HB2	1:A9:194:SER:OG	2.16	0.44
1:A9:234:LYS:HA	1:A9:234:LYS:HD3	1.89	0.44
1:AA:26:VAL:HG12	1:AA:27:HIS:N	2.32	0.44
1:AA:52:PRO:HD3	1:AA:115:THR:O	2.17	0.44
1:AE:199:SER:C	1:AE:201:ALA:H	2.24	0.44
1:AG:143:VAL:H	3:DH:14:PHE:CB	2.28	0.44
1:AH:137:GLY:HA2	1:AI:38:PHE:CD1	2.49	0.44
1:AH:146:ILE:O	1:AH:146:ILE:HG22	2.17	0.44
1:AK:62:SER:HB2	1:AK:73:ASN:ND2	2.27	0.44
1:AM:52:PRO:HD3	1:AM:115:THR:O	2.17	0.44
1:AM:121:LEU:HD21	1:AN:206:GLY:CA	2.47	0.44
1:AN:45:LEU:HB2	1:AN:202:HIS:HA	1.98	0.44
1:AN:137:GLY:HA2	1:AO:38:PHE:CD1	2.48	0.44
1:AN:170:PHE:CD2	1:AN:222:ARG:NH1	2.85	0.44
1:AQ:170:PHE:CD2	1:AQ:222:ARG:NH1	2.85	0.44
1:AS:103:TRP:HB2	1:AS:198:THR:HG23	1.96	0.44
1:AS:139:SER:HA	1:AS:140:PRO:HD3	1.62	0.44
1:AS:170:PHE:CD2	1:AS:222:ARG:NH1	2.85	0.44
1:AT:52:PRO:HD3	1:AT:115:THR:O	2.17	0.44
1:AT:109:VAL:HG22	1:AT:191:HIS:HD2	1.82	0.44
1:AU:52:PRO:HD3	1:AU:115:THR:O	2.17	0.44
1:AW:165:ARG:HG2	2:CX:180:PRO:O	2.16	0.44
1:AX:139:SER:HA	1:AX:140:PRO:HD3	1.62	0.44
1:AZ:49:THR:HG22	1:AZ:50:GLY:H	1.82	0.44
1:AZ:109:VAL:HG22	1:AZ:191:HIS:HD2	1.82	0.44
1:Aa:242:ASN:ND2	1:An:110:GLY:H	2.12	0.44
1:Ad:183:THR:HA	1:Ad:186:TRP:HB3	1.98	0.44
1:Ae:22:VAL:HG12	1:Ae:23:ASP:N	2.33	0.44
1:Ae:139:SER:HA	1:Ae:140:PRO:HD3	1.62	0.44
1:Af:121:LEU:HD21	1:Ag:206:GLY:CA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:45:LEU:HB2	1:Ah:202:HIS:HA	1.98	0.44
1:Ai:7:ASP:O	1:Ai:8:GLY:C	2.59	0.44
1:Aj:83:GLU:C	1:Aj:84:LEU:HD12	2.41	0.44
1:Am:52:PRO:HD3	1:Am:115:THR:O	2.17	0.44
1:An:101:PHE:CD2	1:An:143:VAL:CG1	2.91	0.44
1:Ao:7:ASP:O	1:Ao:8:GLY:C	2.59	0.44
1:BA:137:GLY:HA2	1:BB:38:PHE:CD1	2.48	0.44
1:BC:220:CYS:HA	1:BC:221:PRO:HD2	1.82	0.44
1:BD:52:PRO:HD3	1:BD:115:THR:O	2.17	0.44
1:BE:206:GLY:CA	1:BI:121:LEU:HD21	2.47	0.44
1:BF:26:VAL:HG12	1:BF:27:HIS:N	2.32	0.44
1:BF:170:PHE:CD2	1:BF:222:ARG:CZ	2.87	0.44
1:BG:7:ASP:O	1:BG:8:GLY:C	2.59	0.44
1:BG:49:THR:HG22	1:BG:50:GLY:H	1.82	0.44
1:BG:82:LEU:CD2	1:BG:84:LEU:HD11	2.46	0.44
1:BH:26:VAL:HG12	1:BH:27:HIS:N	2.32	0.44
2:C1:84:PRO:HG3	2:C1:108:TRP:CH2	2.50	0.44
2:C1:180:PRO:HD2	2:C1:189:HIS:HE1	1.77	0.44
2:C2:23:ILE:HD12	2:C2:23:ILE:H	1.80	0.44
2:C2:54:LEU:HD21	2:C2:97:VAL:HG11	1.99	0.44
2:C3:156:SER:HA	2:C3:160:HIS:CD2	2.52	0.44
2:C4:54:LEU:HD21	2:C4:97:VAL:HG11	1.99	0.44
2:C4:69:TRP:CZ3	2:C4:124:LEU:HD11	2.52	0.44
2:C4:135:THR:HG23	2:C4:145:LEU:HD11	1.99	0.44
2:C5:78:ALA:HB1	2:C5:195:VAL:HG12	1.99	0.44
2:C6:125:CYS:SG	2:C6:160:HIS:HD2	2.41	0.44
2:C6:134:HIS:HB3	2:C6:135:THR:H	1.46	0.44
2:C7:156:SER:HA	2:C7:160:HIS:CD2	2.52	0.44
2:C8:54:LEU:HD21	2:C8:97:VAL:HG11	1.99	0.44
2:C8:69:TRP:CZ3	2:C8:124:LEU:HD11	2.52	0.44
2:C8:153:GLN:NE2	3:D8:55:SER:CB	2.80	0.44
2:CA:42:ARG:HA	2:CA:43:PRO:HD2	1.64	0.44
2:CA:57:THR:HG22	2:CA:58:LEU:H	1.82	0.44
2:CA:63:THR:CG2	3:DW:188:LEU:HD21	2.47	0.44
2:CA:78:ALA:HB1	2:CA:195:VAL:HG12	1.99	0.44
2:CA:153:GLN:NE2	3:DA:55:SER:CB	2.80	0.44
2:CC:39:PRO:HB3	2:CC:176:PRO:HA	1.99	0.44
2:CE:152:TYR:OH	3:DE:60:PRO:HD3	2.17	0.44
2:CF:75:HIS:HA	2:CF:198:ILE:O	2.17	0.44
2:CF:180:PRO:HD2	2:CF:189:HIS:HE1	1.77	0.44
2:CH:63:THR:CG2	3:Ds:188:LEU:HD21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:92:GLY:HA3	2:CW:228:ASN:OD1	2.16	0.44
2:CI:152:TYR:OH	3:DI:60:PRO:HD3	2.17	0.44
2:CI:156:SER:HA	2:CI:160:HIS:CD2	2.52	0.44
2:CJ:152:TYR:OH	3:DJ:60:PRO:HD3	2.17	0.44
2:CK:108:TRP:O	2:CK:218:ILE:HD12	2.16	0.44
2:CL:125:CYS:SG	2:CL:160:HIS:HD2	2.40	0.44
2:CM:39:PRO:HB3	2:CM:176:PRO:HA	1.99	0.44
2:CM:57:THR:HG22	2:CM:58:LEU:H	1.82	0.44
2:CM:108:TRP:O	2:CM:218:ILE:HD12	2.17	0.44
2:CM:135:THR:HG23	2:CM:145:LEU:HD11	1.98	0.44
2:CM:156:SER:HA	2:CM:160:HIS:CD2	2.52	0.44
2:CN:42:ARG:HA	2:CN:43:PRO:HD2	1.64	0.44
2:CN:69:TRP:CZ3	2:CN:124:LEU:HD11	2.52	0.44
2:CN:75:HIS:NE2	3:DN:59:LYS:HB3	2.31	0.44
2:CN:152:TYR:OH	3:DN:60:PRO:HD3	2.17	0.44
2:CN:160:HIS:HE2	3:DN:51:TYR:HE1	1.64	0.44
2:CO:57:THR:HG22	2:CO:58:LEU:H	1.82	0.44
2:CO:125:CYS:SG	2:CO:160:HIS:HD2	2.41	0.44
2:CP:54:LEU:HD21	2:CP:97:VAL:HG11	1.99	0.44
2:CQ:75:HIS:HA	2:CQ:198:ILE:O	2.17	0.44
2:CQ:84:PRO:HG2	2:CQ:88:LEU:HG	1.97	0.44
2:CQ:125:CYS:SG	2:CQ:160:HIS:HD2	2.40	0.44
2:CR:57:THR:HG22	2:CR:58:LEU:H	1.82	0.44
2:CS:65:LYS:CB	3:Dc:135:ARG:HH21	2.29	0.44
2:CT:152:TYR:HB2	2:CT:197:LEU:HD22	1.97	0.44
2:CT:153:GLN:NE2	3:DT:55:SER:CB	2.80	0.44
2:CT:157:VAL:HG23	3:DT:50:THR:HG21	1.99	0.44
2:CU:63:THR:CG2	3:Dg:188:LEU:HD21	2.47	0.44
2:CV:135:THR:HG23	2:CV:145:LEU:HD11	1.99	0.44
2:CW:69:TRP:CZ3	2:CW:124:LEU:HD11	2.52	0.44
2:CX:69:TRP:CZ3	2:CX:124:LEU:HD11	2.52	0.44
2:CY:125:CYS:SG	2:CY:160:HIS:HD2	2.40	0.44
2:CY:156:SER:HA	2:CY:160:HIS:CD2	2.52	0.44
2:CZ:69:TRP:CZ3	2:CZ:124:LEU:HD11	2.52	0.44
2:CZ:156:SER:HA	2:CZ:160:HIS:CD2	2.52	0.44
2:Cb:135:THR:HG23	2:Cb:145:LEU:HD11	1.99	0.44
2:Cc:156:SER:HA	2:Cc:160:HIS:CD2	2.52	0.44
2:Ce:157:VAL:HG23	3:De:50:THR:HG21	1.99	0.44
2:Cg:54:LEU:HD21	2:Cg:97:VAL:HG11	1.99	0.44
2:Cg:75:HIS:HA	2:Cg:198:ILE:O	2.17	0.44
2:Cg:153:GLN:NE2	3:Dg:55:SER:CB	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cj:54:LEU:HD21	2:Cj:97:VAL:HG11	1.99	0.44
2:Cj:63:THR:CG2	3:DM:188:LEU:HD21	2.47	0.44
2:Ck:54:LEU:HB2	2:Ck:220:ALA:HB3	1.99	0.44
2:Ck:69:TRP:CZ3	2:Ck:124:LEU:HD11	2.52	0.44
2:Cl:54:LEU:HD21	2:Cl:97:VAL:HG11	1.99	0.44
2:Cn:157:VAL:HG23	3:Dn:50:THR:HG21	1.99	0.44
2:Cp:69:TRP:CZ3	2:Cp:124:LEU:HD11	2.52	0.44
2:Cr:157:VAL:HG23	3:Dr:50:THR:HG21	1.99	0.44
2:Cs:39:PRO:HB3	2:Cs:176:PRO:HA	1.99	0.44
2:Cs:134:HIS:HB3	2:Cs:135:THR:H	1.46	0.44
2:Cv:63:THR:CG2	3:Dd:188:LEU:HD21	2.47	0.44
2:Cv:125:CYS:SG	2:Cv:160:HIS:HD2	2.40	0.44
2:Cv:135:THR:HG23	2:Cv:145:LEU:HD11	1.99	0.44
2:Cw:54:LEU:HD21	2:Cw:97:VAL:HG11	1.99	0.44
2:Cx:57:THR:HG22	2:Cx:58:LEU:H	1.82	0.44
2:Cx:125:CYS:SG	2:Cx:160:HIS:HD2	2.41	0.44
3:D1:97:PHE:HB3	3:D1:218:HIS:O	2.17	0.44
3:D1:160:TYR:CD1	3:D1:160:TYR:C	2.94	0.44
3:D1:175:THR:OG1	3:D1:178:ASN:ND2	2.51	0.44
3:D2:85:LEU:O	3:D2:91:ALA:CB	2.64	0.44
3:D4:179:VAL:HG12	3:D4:181:GLY:N	2.32	0.44
3:D5:19:PRO:HB3	4:F4:30:TYR:CD2	2.52	0.44
3:D6:154:PHE:CG	3:D6:155:SER:N	2.84	0.44
3:D7:7:SER:OG	3:D7:11:SER:HB3	2.17	0.44
3:D8:134:THR:OG1	3:D8:137:GLU:HG3	2.17	0.44
3:DA:75:GLN:NE2	3:DA:184:GLN:OE1	2.49	0.44
3:DB:134:THR:OG1	3:DB:137:GLU:HG3	2.17	0.44
3:DC:97:PHE:CD1	3:DC:216:LEU:HD23	2.51	0.44
3:DD:19:PRO:HG3	4:FD:17:ASN:ND2	2.26	0.44
3:DD:19:PRO:HB3	4:FC:30:TYR:CD2	2.52	0.44
3:DF:43:PHE:O	3:DF:44:ILE:C	2.60	0.44
3:DG:85:LEU:O	3:DG:91:ALA:CB	2.64	0.44
3:DG:97:PHE:CD1	3:DG:216:LEU:HD23	2.51	0.44
3:DH:7:SER:OG	3:DH:11:SER:HB3	2.17	0.44
3:DH:134:THR:OG1	3:DH:137:GLU:HG3	2.17	0.44
3:DI:7:SER:OG	3:DI:11:SER:HB3	2.17	0.44
3:DI:134:THR:OG1	3:DI:137:GLU:HG3	2.17	0.44
3:DJ:97:PHE:HB3	3:DJ:218:HIS:O	2.17	0.44
3:DL:160:TYR:CD1	3:DL:160:TYR:C	2.94	0.44
3:DP:56:ILE:CG1	3:DP:74:PHE:CE1	2.98	0.44
3:DP:77:ASP:O	3:DP:79:SER:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DP:108:PHE:O	3:DP:153:ALA:HA	2.16	0.44
3:DQ:97:PHE:HB3	3:DQ:218:HIS:O	2.17	0.44
3:DR:97:PHE:CD1	3:DR:216:LEU:HD23	2.51	0.44
3:DS:97:PHE:HB3	3:DS:218:HIS:O	2.17	0.44
3:DU:101:ARG:HG2	3:DU:101:ARG:O	2.17	0.44
3:DU:172:ALA:O	3:DU:178:ASN:OD1	2.35	0.44
3:DV:97:PHE:HB3	3:DV:218:HIS:O	2.17	0.44
3:DW:19:PRO:HB3	4:FV:30:TYR:CD2	2.52	0.44
3:DX:120:PHE:HD2	3:DX:146:TRP:CH2	2.34	0.44
3:DY:85:LEU:O	3:DY:91:ALA:CB	2.65	0.44
3:Da:8:VAL:CG1	3:Da:9:PRO:HD2	2.39	0.44
3:Da:19:PRO:HB3	4:F9:30:TYR:CD2	2.52	0.44
3:Dc:97:PHE:HB3	3:Dc:218:HIS:O	2.17	0.44
3:Dd:7:SER:OG	3:Dd:11:SER:HB3	2.17	0.44
3:De:7:SER:OG	3:De:11:SER:HB3	2.17	0.44
3:Df:75:GLN:NE2	3:Df:184:GLN:OE1	2.49	0.44
3:Dg:25:LEU:HD21	3:Dh:15:MET:HG2	1.97	0.44
3:Dh:195:ASP:HB2	3:Dh:198:VAL:HG22	1.98	0.44
3:Dj:160:TYR:CD1	3:Dj:160:TYR:C	2.94	0.44
3:Dl:97:PHE:HB3	3:Dl:218:HIS:O	2.17	0.44
3:Dm:85:LEU:O	3:Dm:91:ALA:CB	2.64	0.44
3:Dn:19:PRO:HB3	4:Fm:30:TYR:CD2	2.52	0.44
3:Dp:7:SER:OG	3:Dp:11:SER:HB3	2.17	0.44
3:Dq:97:PHE:HB3	3:Dq:218:HIS:O	2.17	0.44
3:Dr:19:PRO:HB3	4:Fq:30:TYR:CD2	2.52	0.44
3:Dr:117:LYS:O	3:Dr:191:LEU:HD22	2.15	0.44
3:Ds:154:PHE:CG	3:Ds:155:SER:N	2.84	0.44
3:Ds:179:VAL:HG12	3:Ds:181:GLY:N	2.32	0.44
3:EB:77:ASP:O	3:EB:79:SER:N	2.50	0.44
3:EB:85:LEU:O	3:EB:91:ALA:CB	2.65	0.44
3:EC:56:ILE:CG1	3:EC:74:PHE:CE1	2.98	0.44
3:ED:97:PHE:CD1	3:ED:216:LEU:HD23	2.51	0.44
3:ED:134:THR:OG1	3:ED:137:GLU:HG3	2.17	0.44
3:EE:7:SER:OG	3:EE:11:SER:HB3	2.17	0.44
3:EE:134:THR:OG1	3:EE:137:GLU:HG3	2.17	0.44
4:F4:22:VAL:HG11	4:F8:25:PHE:HZ	1.81	0.44
4:FA:16:GLY:O	4:FA:18:SER:N	2.50	0.44
4:FQ:25:PHE:HZ	4:FR:22:VAL:HG11	1.81	0.44
4:FR:16:GLY:O	4:FR:18:SER:N	2.50	0.44
4:Fa:16:GLY:O	4:Fa:18:SER:N	2.50	0.44
4:Fx:16:GLY:O	4:Fx:18:SER:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:219:TYR:HD2	3:D1:39:ARG:HB2	1.79	0.44
1:A1:170:PHE:CD2	1:A1:222:ARG:CZ	2.87	0.44
1:A4:22:VAL:CG1	1:A4:23:ASP:N	2.79	0.44
1:A5:143:VAL:H	3:D7:14:PHE:CB	2.28	0.44
1:A7:45:LEU:HB2	1:A7:202:HIS:HA	1.98	0.44
1:A8:52:PRO:HD3	1:A8:115:THR:O	2.17	0.44
1:A8:101:PHE:CD2	1:A8:143:VAL:HG11	2.44	0.44
1:A8:184:TYR:CE2	2:C9:139:ALA:HB2	2.51	0.44
1:A9:22:VAL:CG1	1:A9:23:ASP:N	2.79	0.44
1:A9:52:PRO:HD3	1:A9:115:THR:O	2.17	0.44
1:AA:170:PHE:CD2	1:AA:222:ARG:NH1	2.85	0.44
1:AB:45:LEU:HB2	1:AB:202:HIS:HA	1.98	0.44
1:AB:52:PRO:HD3	1:AB:115:THR:O	2.17	0.44
1:AC:22:VAL:HG12	1:AC:23:ASP:N	2.33	0.44
1:AC:43:LEU:HD23	1:AC:43:LEU:H	1.81	0.44
1:AC:56:VAL:HG13	1:AC:193:GLY:O	2.17	0.44
1:AC:62:SER:HB2	1:AC:73:ASN:ND2	2.27	0.44
1:AE:22:VAL:HG12	1:AE:23:ASP:N	2.33	0.44
1:AF:7:ASP:O	1:AF:8:GLY:C	2.59	0.44
1:AF:22:VAL:CG1	1:AF:23:ASP:N	2.79	0.44
1:AG:170:PHE:CD2	1:AG:222:ARG:NH1	2.85	0.44
1:AH:170:PHE:CD2	1:AH:222:ARG:CZ	2.87	0.44
1:AI:55:HIS:O	1:AI:194:SER:HB2	2.18	0.44
1:AJ:165:ARG:HG2	2:CJ:180:PRO:O	2.16	0.44
1:AL:22:VAL:HG12	1:AL:23:ASP:N	2.33	0.44
1:AL:56:VAL:HG13	1:AL:193:GLY:O	2.17	0.44
1:AN:112:PRO:HB2	3:DO:223:PRO:HB3	1.98	0.44
1:AP:38:PHE:CD1	1:AS:137:GLY:HA2	2.48	0.44
1:AP:219:TYR:HD2	3:DP:39:ARG:HB2	1.79	0.44
1:AR:107:PHE:HB2	1:AR:194:SER:OG	2.17	0.44
1:AS:22:VAL:HG12	1:AS:23:ASP:N	2.33	0.44
1:AS:38:PHE:CD1	1:Ao:137:GLY:HA2	2.49	0.44
1:AU:7:ASP:O	1:AU:8:GLY:C	2.59	0.44
1:AU:121:LEU:HD21	1:AV:206:GLY:CA	2.47	0.44
1:AU:146:ILE:O	1:AU:146:ILE:HG22	2.17	0.44
1:AV:7:ASP:O	1:AV:8:GLY:C	2.59	0.44
1:AV:137:GLY:HA2	1:AW:38:PHE:CD1	2.49	0.44
1:AV:170:PHE:CD2	1:AV:222:ARG:NH1	2.85	0.44
1:AV:199:SER:C	1:AV:201:ALA:H	2.25	0.44
1:AY:22:VAL:HG12	1:AY:23:ASP:N	2.33	0.44
1:AY:56:VAL:HG13	1:AY:193:GLY:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:103:TRP:HB2	1:AY:198:THR:HG23	1.96	0.44
1:Aa:121:LEU:HD21	1:Ab:206:GLY:CA	2.47	0.44
1:Aa:170:PHE:CD2	1:Aa:222:ARG:NH1	2.85	0.44
1:Ab:87:GLN:O	1:Ab:88:PHE:CB	2.62	0.44
1:Ab:101:PHE:CD2	1:Ab:143:VAL:CG1	2.91	0.44
1:Ab:143:VAL:H	3:D9:14:PHE:CB	2.28	0.44
1:Ab:170:PHE:CD2	1:Ab:222:ARG:NH1	2.85	0.44
1:Ac:22:VAL:CG1	1:Ac:23:ASP:N	2.79	0.44
1:Ac:56:VAL:HG13	1:Ac:193:GLY:O	2.17	0.44
1:Ad:56:VAL:HG13	1:Ad:193:GLY:O	2.17	0.44
1:Ae:146:ILE:HG22	1:Ae:146:ILE:O	2.17	0.44
1:Af:56:VAL:HG13	1:Af:193:GLY:O	2.17	0.44
1:Af:109:VAL:HG22	1:Af:191:HIS:HD2	1.82	0.44
1:Ag:26:VAL:HG12	1:Ag:27:HIS:N	2.32	0.44
1:Ag:174:TRP:HB2	2:Ci:188:LEU:CD2	2.44	0.44
1:Ah:46:SER:HB2	1:Ah:197:LEU:O	2.15	0.44
1:Ah:82:LEU:CD2	1:Ah:84:LEU:HD11	2.46	0.44
1:Ah:199:SER:C	1:Ah:201:ALA:H	2.25	0.44
1:Ai:49:THR:HG22	1:Ai:50:GLY:H	1.82	0.44
1:Aj:22:VAL:HG12	1:Aj:23:ASP:N	2.33	0.44
1:Aj:146:ILE:O	1:Aj:146:ILE:HG22	2.17	0.44
1:Ak:55:HIS:O	1:Ak:194:SER:HB2	2.17	0.44
1:Ao:49:THR:HG22	1:Ao:50:GLY:H	1.82	0.44
1:Ao:52:PRO:HD3	1:Ao:115:THR:O	2.17	0.44
1:Ao:82:LEU:CD2	1:Ao:84:LEU:HD11	2.46	0.44
1:Ao:109:VAL:HG22	1:Ao:191:HIS:HD2	1.82	0.44
1:BD:22:VAL:CG1	1:BD:23:ASP:N	2.79	0.44
1:BD:45:LEU:HB2	1:BD:202:HIS:HA	1.98	0.44
1:BD:170:PHE:CD2	1:BD:222:ARG:NH1	2.85	0.44
1:BE:199:SER:C	1:BE:201:ALA:H	2.24	0.44
1:BF:183:THR:HA	1:BF:186:TRP:HB3	1.98	0.44
1:BH:52:PRO:HD3	1:BH:115:THR:O	2.17	0.44
1:BI:199:SER:C	1:BI:201:ALA:H	2.25	0.44
2:C0:75:HIS:HA	2:C0:198:ILE:O	2.17	0.44
2:C0:156:SER:HA	2:C0:160:HIS:CD2	2.52	0.44
2:C1:152:TYR:OH	3:D1:60:PRO:HD3	2.17	0.44
2:C2:69:TRP:CZ3	2:C2:124:LEU:HD11	2.52	0.44
2:C4:153:GLN:NE2	3:D4:55:SER:CB	2.80	0.44
2:C4:156:SER:HA	2:C4:160:HIS:CD2	2.52	0.44
2:C5:115:ASN:HD22	3:DG:190:ALA:C	2.17	0.44
2:C5:152:TYR:OH	3:D5:60:PRO:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:63:THR:CG2	3:DE:188:LEU:HD21	2.47	0.44
2:C7:57:THR:HG22	2:C7:58:LEU:H	1.82	0.44
2:C7:125:CYS:SG	2:C7:160:HIS:HD2	2.40	0.44
2:C7:153:GLN:NE2	3:D7:55:SER:CB	2.80	0.44
2:C8:39:PRO:HB3	2:C8:176:PRO:HA	1.99	0.44
2:C8:46:THR:CG2	3:D4:165:ASP:HA	2.38	0.44
2:C9:125:CYS:SG	2:C9:160:HIS:HD2	2.40	0.44
2:CA:75:HIS:HA	2:CA:198:ILE:O	2.17	0.44
2:CA:157:VAL:HG23	3:DA:50:THR:HG21	1.99	0.44
2:CA:160:HIS:HD1	2:CA:160:HIS:N	2.14	0.44
2:CA:228:ASN:OD1	2:CV:92:GLY:HA3	2.16	0.44
2:CD:125:CYS:SG	2:CD:160:HIS:HD2	2.40	0.44
2:CF:56:PRO:C	2:CF:57:THR:O	2.59	0.44
2:CF:108:TRP:O	2:CF:218:ILE:HD12	2.17	0.44
2:CF:156:SER:HA	2:CF:160:HIS:CD2	2.52	0.44
2:CG:54:LEU:HD21	2:CG:97:VAL:HG11	1.99	0.44
2:CG:69:TRP:CZ3	2:CG:124:LEU:HD11	2.53	0.44
2:CG:75:HIS:HA	2:CG:198:ILE:O	2.17	0.44
2:CG:157:VAL:HG23	3:DG:50:THR:HG21	1.99	0.44
2:CH:152:TYR:HB3	2:CH:197:LEU:HD22	2.00	0.44
2:CH:156:SER:HA	2:CH:160:HIS:CD2	2.52	0.44
2:CI:56:PRO:C	2:CI:57:THR:O	2.59	0.44
2:CJ:63:THR:CG2	3:DA:188:LEU:HD21	2.47	0.44
2:CL:57:THR:HG22	2:CL:58:LEU:H	1.82	0.44
2:CL:156:SER:HA	2:CL:160:HIS:CD2	2.52	0.44
2:CM:160:HIS:HE2	3:DM:51:TYR:HE1	1.64	0.44
2:CP:156:SER:HA	2:CP:160:HIS:CD2	2.52	0.44
2:CQ:69:TRP:CZ3	2:CQ:124:LEU:HD11	2.52	0.44
2:CQ:135:THR:HG23	2:CQ:145:LEU:HD11	1.99	0.44
2:CS:69:TRP:CZ3	2:CS:124:LEU:HD11	2.52	0.44
2:CS:156:SER:HA	2:CS:160:HIS:CD2	2.52	0.44
2:CT:69:TRP:CZ3	2:CT:124:LEU:HD11	2.52	0.44
2:CT:152:TYR:OH	3:DT:60:PRO:HD3	2.17	0.44
2:CU:54:LEU:HB2	2:CU:220:ALA:HB3	1.99	0.44
2:CU:75:HIS:HA	2:CU:198:ILE:O	2.17	0.44
2:CU:156:SER:HA	2:CU:160:HIS:CD2	2.52	0.44
2:CU:157:VAL:HG23	3:DU:50:THR:HG21	1.99	0.44
2:CV:157:VAL:HG23	3:DV:50:THR:HG21	1.99	0.44
2:CW:54:LEU:HD21	2:CW:97:VAL:HG11	1.99	0.44
2:CW:108:TRP:O	2:CW:218:ILE:HD12	2.16	0.44
2:CW:153:GLN:NE2	3:DW:55:SER:CB	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:78:ALA:HB1	2:CX:195:VAL:HG12	1.99	0.44
2:CX:125:CYS:SG	2:CX:160:HIS:HD2	2.40	0.44
2:CY:49:ASP:HA	2:CY:50:PRO:HD2	1.81	0.44
2:CY:84:PRO:HD2	2:CY:186:LEU:CD2	2.48	0.44
2:CZ:135:THR:HG23	2:CZ:145:LEU:HD11	1.99	0.44
2:CZ:152:TYR:OH	3:DZ:60:PRO:HD3	2.17	0.44
2:Ca:42:ARG:HA	2:Ca:43:PRO:HD2	1.64	0.44
2:Ca:54:LEU:HD21	2:Ca:97:VAL:HG11	1.99	0.44
2:Cb:108:TRP:O	2:Cb:218:ILE:HD12	2.17	0.44
2:Cd:69:TRP:CZ3	2:Cd:124:LEU:HD11	2.53	0.44
2:Ce:156:SER:HA	2:Ce:160:HIS:CD2	2.52	0.44
2:Cg:39:PRO:HB3	2:Cg:176:PRO:HA	1.99	0.44
2:Cg:152:TYR:HB3	2:Cg:197:LEU:HD22	2.00	0.44
2:Ch:63:THR:CG2	3:DN:188:LEU:HD21	2.47	0.44
2:Ci:69:TRP:CZ3	2:Ci:124:LEU:HD11	2.52	0.44
2:Ck:108:TRP:O	2:Ck:218:ILE:HD12	2.16	0.44
2:Ck:153:GLN:NE2	3:Dk:55:SER:CB	2.80	0.44
2:Cl:156:SER:HA	2:Cl:160:HIS:CD2	2.52	0.44
2:Cm:135:THR:HG23	2:Cm:145:LEU:HD11	1.99	0.44
2:Co:56:PRO:C	2:Co:57:THR:O	2.59	0.44
2:Cp:108:TRP:O	2:Cp:218:ILE:HD12	2.16	0.44
2:Cq:56:PRO:C	2:Cq:57:THR:O	2.59	0.44
2:Cq:84:PRO:HD2	2:Cq:186:LEU:CD2	2.48	0.44
2:Cq:157:VAL:HG23	3:Dq:50:THR:HG21	1.99	0.44
2:Cr:54:LEU:HB2	2:Cr:220:ALA:HB3	1.99	0.44
2:Cr:57:THR:HG22	2:Cr:58:LEU:H	1.82	0.44
2:Cr:63:THR:CG2	3:DI:188:LEU:HD21	2.46	0.44
2:Cs:78:ALA:HB1	2:Cs:195:VAL:HG12	1.99	0.44
2:Ct:152:TYR:HB2	2:Ct:197:LEU:HD22	1.98	0.44
2:Cu:39:PRO:HB3	2:Cu:176:PRO:HA	1.99	0.44
2:Cu:125:CYS:SG	2:Cu:160:HIS:HD2	2.40	0.44
2:Cu:153:GLN:NE2	3:EB:55:SER:CB	2.80	0.44
2:Cw:65:LYS:CB	3:DS:135:ARG:HH21	2.29	0.44
2:Cw:212:THR:HG22	2:Cw:213:MET:N	2.30	0.44
3:D0:7:SER:OG	3:D0:11:SER:HB3	2.17	0.44
3:D0:19:PRO:HG3	4:F0:17:ASN:ND2	2.26	0.44
3:D0:179:VAL:HG12	3:D0:181:GLY:N	2.32	0.44
3:D2:75:GLN:NE2	3:D2:184:GLN:OE1	2.49	0.44
3:D2:101:ARG:HG2	3:D2:101:ARG:O	2.17	0.44
3:D3:7:SER:OG	3:D3:11:SER:HB3	2.17	0.44
3:D3:101:ARG:HG2	3:D3:101:ARG:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D6:77:ASP:O	3:D6:79:SER:N	2.50	0.44
3:D6:97:PHE:HB3	3:D6:218:HIS:O	2.17	0.44
3:D7:77:ASP:O	3:D7:79:SER:N	2.50	0.44
3:D8:175:THR:OG1	3:D8:178:ASN:ND2	2.51	0.44
3:D9:97:PHE:HB3	3:D9:218:HIS:O	2.17	0.44
3:D9:154:PHE:CG	3:D9:155:SER:N	2.84	0.44
3:DB:175:THR:OG1	3:DB:178:ASN:ND2	2.51	0.44
3:DD:198:VAL:HG23	3:DD:199:ASN:H	1.82	0.44
3:DE:19:PRO:HB3	4:FD:30:TYR:CD2	2.52	0.44
3:DE:36:VAL:HA	3:DE:37:PRO:HD3	1.53	0.44
3:DE:43:PHE:O	3:DE:44:ILE:C	2.60	0.44
3:DF:36:VAL:HA	3:DF:37:PRO:HD3	1.53	0.44
3:DF:77:ASP:O	3:DF:79:SER:N	2.50	0.44
3:DF:97:PHE:HB3	3:DF:218:HIS:O	2.17	0.44
3:DG:77:ASP:O	3:DG:79:SER:N	2.50	0.44
3:DG:97:PHE:HB3	3:DG:218:HIS:O	2.17	0.44
3:DG:172:ALA:O	3:DG:178:ASN:OD1	2.34	0.44
3:DH:103:SER:HB3	3:DH:159:PRO:CA	2.35	0.44
3:DI:97:PHE:HB3	3:DI:218:HIS:O	2.17	0.44
3:DN:122:VAL:HG22	3:DN:123:ALA:N	2.30	0.44
3:DN:198:VAL:HG23	3:DN:199:ASN:H	1.82	0.44
3:DP:85:LEU:O	3:DP:91:ALA:CB	2.64	0.44
3:DQ:134:THR:OG1	3:DQ:137:GLU:HG3	2.17	0.44
3:DQ:175:THR:OG1	3:DQ:178:ASN:ND2	2.51	0.44
3:DR:7:SER:OG	3:DR:11:SER:HB3	2.17	0.44
3:DS:160:TYR:CD1	3:DS:160:TYR:C	2.94	0.44
3:DT:7:SER:OG	3:DT:11:SER:HB3	2.17	0.44
3:DT:101:ARG:HG2	3:DT:101:ARG:O	2.17	0.44
3:DW:77:ASP:O	3:DW:79:SER:N	2.50	0.44
3:DX:77:ASP:O	3:DX:79:SER:N	2.50	0.44
3:DX:195:ASP:HB2	3:DX:198:VAL:HG22	1.98	0.44
3:Df:179:VAL:HG12	3:Df:181:GLY:N	2.32	0.44
3:Dg:7:SER:OG	3:Dg:11:SER:HB3	2.17	0.44
3:Dg:43:PHE:O	3:Dg:44:ILE:C	2.60	0.44
3:Dg:179:VAL:HG12	3:Dg:181:GLY:N	2.32	0.44
3:Dl:160:TYR:C	3:Dl:160:TYR:CD1	2.94	0.44
3:Dn:154:PHE:CG	3:Dn:155:SER:N	2.84	0.44
3:Dq:77:ASP:O	3:Dq:79:SER:N	2.50	0.44
3:Dq:179:VAL:HG12	3:Dq:181:GLY:N	2.33	0.44
3:EA:134:THR:OG1	3:EA:137:GLU:HG3	2.17	0.44
3:EB:19:PRO:HB3	4:Ft:30:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:36:VAL:HA	3:EC:37:PRO:HD3	1.53	0.44
3:ED:19:PRO:HB3	4:Fv:30:TYR:CD2	2.52	0.44
3:ED:97:PHE:HB3	3:ED:218:HIS:O	2.17	0.44
3:EE:77:ASP:O	3:EE:79:SER:N	2.50	0.44
3:EE:179:VAL:HG12	3:EE:181:GLY:N	2.32	0.44
4:F5:16:GLY:O	4:F5:18:SER:N	2.50	0.44
4:F7:25:PHE:HZ	4:F8:22:VAL:HG11	1.81	0.44
4:FP:16:GLY:O	4:FP:18:SER:N	2.50	0.44
4:Fj:25:PHE:HZ	4:Fk:22:VAL:HG11	1.81	0.44
4:Fm:25:PHE:HZ	4:Fn:22:VAL:HG11	1.81	0.44
4:Fw:16:GLY:O	4:Fw:18:SER:N	2.50	0.44
1:A4:49:THR:HG22	1:A4:50:GLY:H	1.82	0.44
1:A4:101:PHE:O	1:A4:199:SER:OG	2.33	0.44
1:A6:109:VAL:HG22	1:A6:191:HIS:HD2	1.82	0.44
1:AA:107:PHE:HB2	1:AA:194:SER:OG	2.17	0.44
1:AB:22:VAL:HG12	1:AB:23:ASP:N	2.33	0.44
1:AB:101:PHE:O	1:AB:199:SER:OG	2.33	0.44
1:AB:170:PHE:CD2	1:AB:222:ARG:NH1	2.85	0.44
1:AD:199:SER:C	1:AD:201:ALA:H	2.25	0.44
1:AF:45:LEU:HB2	1:AF:202:HIS:HA	1.98	0.44
1:AF:52:PRO:HD3	1:AF:115:THR:O	2.17	0.44
1:AF:183:THR:HA	1:AF:186:TRP:HB3	1.98	0.44
1:AJ:112:PRO:HB2	3:DF:223:PRO:HB3	1.98	0.44
1:AK:43:LEU:HD23	1:AK:43:LEU:H	1.81	0.44
1:AK:52:PRO:HD3	1:AK:115:THR:O	2.17	0.44
1:AM:55:HIS:O	1:AM:194:SER:HB2	2.18	0.44
1:AN:165:ARG:HG2	2:CN:180:PRO:O	2.16	0.44
1:AN:201:ALA:O	1:AN:202:HIS:HD2	2.01	0.44
1:AO:146:ILE:HG22	1:AO:146:ILE:O	2.17	0.44
1:AO:220:CYS:HA	1:AO:221:PRO:HD2	1.82	0.44
1:AQ:26:VAL:HG12	1:AQ:27:HIS:N	2.32	0.44
1:AQ:103:TRP:HB2	1:AQ:198:THR:HG23	1.96	0.44
1:AR:103:TRP:HB2	1:AR:198:THR:HG23	1.96	0.44
1:AR:143:VAL:H	3:DS:14:PHE:CB	2.28	0.44
1:AS:55:HIS:O	1:AS:194:SER:HB2	2.18	0.44
1:AT:170:PHE:CD2	1:AT:222:ARG:NH1	2.85	0.44
1:AU:112:PRO:HB2	3:DW:223:PRO:HB3	1.98	0.44
1:AU:165:ARG:HG2	2:CV:180:PRO:O	2.16	0.44
1:AU:199:SER:C	1:AU:201:ALA:H	2.24	0.44
1:AU:220:CYS:HA	1:AU:221:PRO:HD2	1.82	0.44
1:AV:26:VAL:HG12	1:AV:27:HIS:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:43:LEU:HD23	1:AV:43:LEU:H	1.81	0.44
1:AV:56:VAL:HG13	1:AV:193:GLY:O	2.17	0.44
1:AV:109:VAL:HG22	1:AV:191:HIS:HD2	1.82	0.44
1:AW:109:VAL:HG22	1:AW:191:HIS:HD2	1.82	0.44
1:AX:183:THR:HA	1:AX:186:TRP:HB3	1.98	0.44
1:AZ:7:ASP:O	1:AZ:8:GLY:C	2.59	0.44
1:AZ:22:VAL:HG12	1:AZ:23:ASP:N	2.33	0.44
1:Ab:107:PHE:HB2	1:Ab:194:SER:OG	2.16	0.44
1:Ac:52:PRO:HD3	1:Ac:115:THR:O	2.17	0.44
1:Ac:55:HIS:O	1:Ac:194:SER:HB2	2.18	0.44
1:Ad:55:HIS:O	1:Ad:194:SER:HB2	2.18	0.44
1:Ad:199:SER:C	1:Ad:201:ALA:H	2.24	0.44
1:Ae:170:PHE:CD2	1:Ae:222:ARG:CZ	2.87	0.44
1:Ae:225:PRO:HA	1:Ae:226:PRO:HD2	1.88	0.44
1:Af:52:PRO:HD3	1:Af:115:THR:O	2.17	0.44
1:Af:101:PHE:CD2	1:Af:143:VAL:HG11	2.44	0.44
1:Ah:49:THR:HG22	1:Ah:50:GLY:H	1.82	0.44
1:Ah:137:GLY:HA2	1:Ai:38:PHE:CD1	2.49	0.44
1:Ah:170:PHE:CD2	1:Ah:222:ARG:NH1	2.85	0.44
1:Ai:55:HIS:O	1:Ai:194:SER:HB2	2.18	0.44
1:Ai:183:THR:HA	1:Ai:186:TRP:HB3	1.98	0.44
1:Al:146:ILE:O	1:Al:146:ILE:HG22	2.17	0.44
1:Am:199:SER:C	1:Am:201:ALA:H	2.25	0.44
1:BA:109:VAL:HG22	1:BA:191:HIS:HD2	1.82	0.44
1:BB:146:ILE:O	1:BB:146:ILE:HG22	2.18	0.44
1:BC:43:LEU:HD23	1:BC:43:LEU:H	1.81	0.44
1:BD:55:HIS:O	1:BD:194:SER:HB2	2.17	0.44
1:BD:107:PHE:HB2	1:BD:194:SER:OG	2.16	0.44
1:BE:183:THR:HA	1:BE:186:TRP:HB3	1.98	0.44
1:BF:7:ASP:O	1:BF:8:GLY:C	2.59	0.44
1:BG:83:GLU:C	1:BG:84:LEU:HD12	2.41	0.44
1:BH:146:ILE:O	1:BH:146:ILE:HG22	2.17	0.44
1:BI:55:HIS:O	1:BI:194:SER:HB2	2.18	0.44
1:BI:56:VAL:HG13	1:BI:193:GLY:O	2.17	0.44
1:BI:183:THR:HA	1:BI:186:TRP:HB3	1.99	0.44
2:C1:13:ARG:HD3	2:C1:13:ARG:HA	1.72	0.44
2:C1:39:PRO:HB3	2:C1:176:PRO:HA	1.99	0.44
2:C1:125:CYS:SG	2:C1:160:HIS:HD2	2.41	0.44
2:C1:152:TYR:HB3	2:C1:197:LEU:HD22	2.00	0.44
2:C1:156:SER:HA	2:C1:160:HIS:CD2	2.52	0.44
2:C3:54:LEU:HD21	2:C3:97:VAL:HG11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:157:VAL:HG23	3:D3:50:THR:HG21	1.99	0.44
2:C4:108:TRP:O	2:C4:218:ILE:HD12	2.17	0.44
2:C5:84:PRO:HD2	2:C5:186:LEU:CD2	2.48	0.44
2:C7:54:LEU:HB2	2:C7:220:ALA:HB3	1.99	0.44
2:C7:160:HIS:HE2	3:D7:51:TYR:HE1	1.64	0.44
2:C8:13:ARG:HD3	2:C8:13:ARG:HA	1.72	0.44
2:C8:152:TYR:HB3	2:C8:197:LEU:HD22	2.00	0.44
2:CB:212:THR:HG23	3:Df:188:LEU:HD22	1.96	0.44
2:CD:54:LEU:HB2	2:CD:220:ALA:HB3	1.99	0.44
2:CE:39:PRO:HB3	2:CE:176:PRO:HA	1.99	0.44
2:CE:75:HIS:HA	2:CE:198:ILE:O	2.17	0.44
2:CE:84:PRO:HD2	2:CE:186:LEU:CD2	2.48	0.44
2:CE:153:GLN:NE2	3:DE:55:SER:CB	2.80	0.44
2:CE:157:VAL:HG23	3:DE:50:THR:HG21	1.99	0.44
2:CF:65:LYS:CB	3:D6:135:ARG:HH21	2.29	0.44
2:CG:125:CYS:SG	2:CG:160:HIS:HD2	2.40	0.44
2:CG:160:HIS:HE2	3:DG:51:TYR:HE1	1.64	0.44
2:CH:125:CYS:SG	2:CH:160:HIS:HD2	2.40	0.44
2:CJ:95:HIS:CD2	2:CJ:95:HIS:C	2.93	0.44
2:CJ:125:CYS:SG	2:CJ:160:HIS:HD2	2.40	0.44
2:CJ:226:LEU:CD2	3:DF:126:PRO:HG2	2.36	0.44
2:CK:157:VAL:HG23	3:DK:50:THR:HG21	1.99	0.44
2:CL:153:GLN:NE2	3:DL:55:SER:CB	2.80	0.44
2:CM:54:LEU:HD21	2:CM:97:VAL:HG11	1.99	0.44
2:CM:54:LEU:HB2	2:CM:220:ALA:HB3	1.99	0.44
2:CM:84:PRO:HD2	2:CM:186:LEU:CD2	2.48	0.44
2:CN:84:PRO:HD2	2:CN:186:LEU:CD2	2.48	0.44
2:CO:42:ARG:HA	2:CO:43:PRO:HD2	1.64	0.44
2:CP:153:GLN:NE2	3:DP:55:SER:CB	2.80	0.44
2:CQ:152:TYR:OH	3:DQ:60:PRO:HD3	2.17	0.44
2:CS:84:PRO:HD2	2:CS:186:LEU:CD2	2.48	0.44
2:CS:153:GLN:NE2	3:DS:55:SER:CB	2.80	0.44
2:CT:125:CYS:SG	2:CT:160:HIS:HD2	2.40	0.44
2:CU:69:TRP:CZ3	2:CU:124:LEU:HD11	2.52	0.44
2:CU:152:TYR:OH	3:DU:60:PRO:HD3	2.17	0.44
2:CW:152:TYR:OH	3:DW:60:PRO:HD3	2.17	0.44
2:CX:153:GLN:NE2	3:DX:55:SER:CB	2.80	0.44
2:CY:69:TRP:CZ3	2:CY:124:LEU:HD11	2.52	0.44
2:CY:95:HIS:CD2	2:CY:95:HIS:C	2.92	0.44
2:CZ:63:THR:CG2	3:Dq:188:LEU:HD21	2.47	0.44
2:CZ:125:CYS:SG	2:CZ:160:HIS:HD2	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ca:153:GLN:NE2	3:Da:55:SER:CB	2.80	0.44
2:Cc:75:HIS:HA	2:Cc:198:ILE:O	2.17	0.44
2:Cc:108:TRP:O	2:Cc:218:ILE:HD12	2.17	0.44
2:Cd:39:PRO:HB3	2:Cd:176:PRO:HA	1.99	0.44
2:Cd:108:TRP:O	2:Cd:218:ILE:HD12	2.17	0.44
2:Cf:156:SER:HA	2:Cf:160:HIS:CD2	2.52	0.44
2:Cg:56:PRO:C	2:Cg:57:THR:O	2.59	0.44
2:Cg:57:THR:HG22	2:Cg:58:LEU:H	1.82	0.44
2:Cg:152:TYR:OH	3:Dg:60:PRO:HD3	2.17	0.44
2:Cg:160:HIS:HE2	3:Dg:51:TYR:HE1	1.64	0.44
2:Ch:57:THR:HG22	2:Ch:58:LEU:H	1.82	0.44
2:Ch:117:SER:HB3	3:DN:192:THR:CG2	2.47	0.44
2:Ch:125:CYS:SG	2:Ch:160:HIS:HD2	2.40	0.44
2:Ci:75:HIS:HA	2:Ci:198:ILE:O	2.17	0.44
2:Cj:125:CYS:SG	2:Cj:160:HIS:HD2	2.41	0.44
2:Cj:153:GLN:NE2	3:Dj:55:SER:CB	2.80	0.44
2:Ck:84:PRO:HD2	2:Ck:186:LEU:CD2	2.48	0.44
2:Cl:46:THR:CG2	3:Dm:165:ASP:HA	2.38	0.44
2:Cm:157:VAL:HG23	3:Dm:50:THR:HG21	1.99	0.44
2:Cn:56:PRO:C	2:Cn:57:THR:O	2.59	0.44
2:Cn:65:LYS:CB	3:De:135:ARG:HH21	2.29	0.44
2:Cn:125:CYS:SG	2:Cn:160:HIS:HD2	2.40	0.44
2:Co:46:THR:CG2	3:Dp:165:ASP:HA	2.38	0.44
2:Cp:125:CYS:SG	2:Cp:160:HIS:HD2	2.40	0.44
2:Cq:78:ALA:HB1	2:Cq:195:VAL:HG12	1.99	0.44
2:Cq:117:SER:HB3	3:DY:192:THR:CG2	2.47	0.44
2:Cs:228:ASN:OD1	2:Cx:92:GLY:HA3	2.16	0.44
2:Ct:160:HIS:HE2	3:EA:51:TYR:HE1	1.64	0.44
2:Cu:75:HIS:HA	2:Cu:198:ILE:O	2.17	0.44
2:Cv:54:LEU:HD21	2:Cv:97:VAL:HG11	1.99	0.44
3:D0:77:ASP:O	3:D0:79:SER:N	2.50	0.44
3:D1:56:ILE:CG1	3:D1:74:PHE:CE1	2.98	0.44
3:D3:75:GLN:NE2	3:D3:184:GLN:OE1	2.49	0.44
3:D4:7:SER:OG	3:D4:11:SER:HB3	2.17	0.44
3:D4:77:ASP:O	3:D4:79:SER:N	2.50	0.44
3:D5:172:ALA:O	3:D5:178:ASN:OD1	2.34	0.44
3:D5:179:VAL:HG12	3:D5:181:GLY:N	2.33	0.44
3:D8:160:TYR:CD1	3:D8:160:TYR:C	2.94	0.44
3:D9:77:ASP:O	3:D9:79:SER:N	2.50	0.44
3:DA:19:PRO:HB3	4:FE:30:TYR:CD2	2.52	0.44
3:DA:97:PHE:HB3	3:DA:218:HIS:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:13:SER:OG	3:DB:15:MET:CE	2.64	0.44
3:DG:19:PRO:HB3	4:FF:30:TYR:CD2	2.52	0.44
3:DG:179:VAL:HG12	3:DG:181:GLY:N	2.33	0.44
3:DJ:19:PRO:HB3	4:FI:30:TYR:CD2	2.52	0.44
3:DJ:160:TYR:CD1	3:DJ:160:TYR:C	2.94	0.44
3:DN:120:PHE:HD2	3:DN:146:TRP:CH2	2.34	0.44
3:DP:160:TYR:CD1	3:DP:160:TYR:C	2.94	0.44
3:DR:198:VAL:HG23	3:DR:199:ASN:H	1.82	0.44
3:DU:154:PHE:CG	3:DU:155:SER:N	2.85	0.44
3:DY:101:ARG:O	3:DY:101:ARG:HG2	2.17	0.44
3:DZ:43:PHE:O	3:DZ:44:ILE:C	2.60	0.44
3:Da:175:THR:OG1	3:Da:178:ASN:ND2	2.51	0.44
3:Dd:101:ARG:O	3:Dd:101:ARG:HG2	2.17	0.44
3:Dd:179:VAL:HG12	3:Dd:181:GLY:N	2.32	0.44
3:Dg:154:PHE:CG	3:Dg:155:SER:N	2.84	0.44
3:Dh:97:PHE:HB3	3:Dh:218:HIS:O	2.17	0.44
3:Di:19:PRO:HB3	4:Fh:30:TYR:CD2	2.52	0.44
3:Di:134:THR:OG1	3:Di:137:GLU:HG3	2.17	0.44
3:Di:175:THR:OG1	3:Di:178:ASN:ND2	2.51	0.44
3:Dk:7:SER:OG	3:Dk:11:SER:HB3	2.17	0.44
3:Dl:7:SER:OG	3:Dl:11:SER:HB3	2.17	0.44
3:Dl:36:VAL:HA	3:Dl:37:PRO:HD3	1.53	0.44
3:Dl:77:ASP:O	3:Dl:79:SER:N	2.50	0.44
3:Dl:134:THR:OG1	3:Dl:137:GLU:HG3	2.17	0.44
3:Dm:7:SER:OG	3:Dm:11:SER:HB3	2.17	0.44
3:Dm:56:ILE:CG1	3:Dm:74:PHE:CE1	2.98	0.44
3:Dn:97:PHE:CD1	3:Dn:216:LEU:HD23	2.51	0.44
3:Do:160:TYR:CD1	3:Do:160:TYR:C	2.94	0.44
3:Dp:85:LEU:O	3:Dp:91:ALA:CB	2.64	0.44
3:Dr:134:THR:OG1	3:Dr:137:GLU:HG3	2.17	0.44
3:Ds:56:ILE:CG1	3:Ds:74:PHE:CE1	2.98	0.44
3:EA:172:ALA:O	3:EA:178:ASN:OD1	2.34	0.44
3:EA:175:THR:OG1	3:EA:178:ASN:ND2	2.51	0.44
3:EC:195:ASP:HB2	3:EC:198:VAL:HG22	1.98	0.44
3:EE:97:PHE:CD1	3:EE:216:LEU:HD23	2.51	0.44
4:F2:16:GLY:O	4:F2:18:SER:N	2.50	0.44
4:F4:16:GLY:O	4:F4:18:SER:N	2.50	0.44
4:FA:25:PHE:HZ	4:FB:22:VAL:HG11	1.81	0.44
4:FY:16:GLY:O	4:FY:18:SER:N	2.50	0.44
4:Ff:25:PHE:HZ	4:Fg:22:VAL:HG11	1.81	0.44
4:Ft:25:PHE:HZ	4:Fu:22:VAL:HG11	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:56:VAL:HG13	1:A0:193:GLY:O	2.17	0.44
1:A1:52:PRO:HD3	1:A1:115:THR:O	2.17	0.44
1:A1:107:PHE:HB2	1:A1:194:SER:OG	2.17	0.44
1:A2:49:THR:HG22	1:A2:50:GLY:H	1.82	0.44
1:A3:146:ILE:O	1:A3:146:ILE:HG22	2.17	0.44
1:A4:199:SER:C	1:A4:201:ALA:H	2.25	0.44
1:A5:170:PHE:CD2	1:A5:222:ARG:NH1	2.85	0.44
1:A6:121:LEU:HD21	1:A7:206:GLY:CA	2.47	0.44
1:A7:56:VAL:HG13	1:A7:193:GLY:O	2.17	0.44
1:A8:183:THR:HA	1:A8:186:TRP:HB3	1.98	0.44
1:A9:7:ASP:O	1:A9:8:GLY:C	2.59	0.44
1:AA:146:ILE:O	1:AA:146:ILE:HG22	2.17	0.44
1:AB:146:ILE:HG22	1:AB:146:ILE:O	2.17	0.44
1:AD:170:PHE:CD2	1:AD:222:ARG:NH1	2.85	0.44
1:AE:170:PHE:CD2	1:AE:222:ARG:NH1	2.85	0.44
1:AE:183:THR:HA	1:AE:186:TRP:HB3	1.98	0.44
1:AG:201:ALA:O	1:AG:202:HIS:HD2	2.01	0.44
1:AH:107:PHE:HB2	1:AH:194:SER:OG	2.17	0.44
1:AJ:55:HIS:O	1:AJ:194:SER:HB2	2.18	0.44
1:AK:55:HIS:O	1:AK:194:SER:HB2	2.17	0.44
1:AK:143:VAL:H	3:DL:14:PHE:CB	2.28	0.44
1:AK:201:ALA:O	1:AK:202:HIS:CD2	2.71	0.44
1:AL:26:VAL:HG12	1:AL:27:HIS:N	2.32	0.44
1:AL:49:THR:HG22	1:AL:50:GLY:H	1.82	0.44
1:AL:55:HIS:O	1:AL:194:SER:HB2	2.18	0.44
1:AL:201:ALA:O	1:AL:202:HIS:CD2	2.71	0.44
1:AL:201:ALA:O	1:AL:202:HIS:HD2	2.01	0.44
1:AM:26:VAL:HG12	1:AM:27:HIS:N	2.32	0.44
1:AM:49:THR:HG22	1:AM:50:GLY:H	1.82	0.44
1:AM:103:TRP:HB2	1:AM:198:THR:HG23	1.96	0.44
1:AO:101:PHE:O	1:AO:199:SER:OG	2.33	0.44
1:AR:101:PHE:O	1:AR:199:SER:OG	2.33	0.44
1:AR:109:VAL:HG22	1:AR:191:HIS:HD2	1.82	0.44
1:AS:183:THR:HA	1:AS:186:TRP:HB3	1.98	0.44
1:AT:181:LYS:O	1:AT:182:ALA:CB	2.66	0.44
1:AT:201:ALA:O	1:AT:202:HIS:HD2	2.01	0.44
1:AV:181:LYS:O	1:AV:182:ALA:CB	2.66	0.44
1:AW:201:ALA:O	1:AW:202:HIS:HD2	2.01	0.44
1:AX:143:VAL:H	3:DU:14:PHE:CB	2.28	0.44
1:AX:181:LYS:O	1:AX:182:ALA:CB	2.66	0.44
1:AZ:26:VAL:HG12	1:AZ:27:HIS:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:103:TRP:HB2	1:AZ:198:THR:HG23	1.96	0.44
1:AZ:170:PHE:CD2	1:AZ:222:ARG:NH1	2.85	0.44
1:Aa:201:ALA:O	1:Aa:202:HIS:CD2	2.71	0.44
1:Ab:83:GLU:C	1:Ab:84:LEU:HD12	2.41	0.44
1:Ab:146:ILE:O	1:Ab:146:ILE:HG22	2.17	0.44
1:Ac:49:THR:HG22	1:Ac:50:GLY:H	1.82	0.44
1:Ac:87:GLN:O	1:Ac:88:PHE:CB	2.62	0.44
1:Ac:199:SER:C	1:Ac:201:ALA:H	2.25	0.44
1:Ae:7:ASP:O	1:Ae:8:GLY:C	2.59	0.44
1:Af:220:CYS:HA	1:Af:221:PRO:HD2	1.82	0.44
1:Ag:139:SER:HA	1:Ag:140:PRO:HD3	1.62	0.44
1:Ah:7:ASP:O	1:Ah:8:GLY:C	2.59	0.44
1:Ah:52:PRO:HD3	1:Ah:115:THR:O	2.17	0.44
1:Ai:121:LEU:HD21	1:Aj:206:GLY:CA	2.47	0.44
1:Ai:146:ILE:HG21	1:Ai:146:ILE:HD13	1.74	0.44
1:Aj:199:SER:C	1:Aj:201:ALA:H	2.25	0.44
1:Al:55:HIS:O	1:Al:194:SER:HB2	2.18	0.44
1:Al:56:VAL:HG13	1:Al:193:GLY:O	2.17	0.44
1:Al:101:PHE:O	1:Al:199:SER:OG	2.33	0.44
1:Ao:56:VAL:HG13	1:Ao:193:GLY:O	2.17	0.44
1:Ao:201:ALA:O	1:Ao:202:HIS:HD2	2.01	0.44
1:BA:52:PRO:HD3	1:BA:115:THR:O	2.17	0.44
1:BA:183:THR:HA	1:BA:186:TRP:HB3	1.98	0.44
1:BA:201:ALA:O	1:BA:202:HIS:HD2	2.01	0.44
1:BB:22:VAL:HG12	1:BB:23:ASP:N	2.33	0.44
1:BC:52:PRO:HD3	1:BC:115:THR:O	2.17	0.44
1:BG:52:PRO:HD3	1:BG:115:THR:O	2.17	0.44
1:BI:7:ASP:O	1:BI:8:GLY:C	2.59	0.44
2:C0:152:TYR:OH	3:D0:60:PRO:HD3	2.17	0.44
2:C1:69:TRP:CZ3	2:C1:124:LEU:HD11	2.52	0.44
2:C1:135:THR:HG23	2:C1:145:LEU:HD11	1.98	0.44
2:C1:209:VAL:N	2:C1:210:PRO:CD	2.68	0.44
2:C2:34:TYR:HA	2:C2:174:VAL:O	2.18	0.44
2:C3:63:THR:CG2	3:DU:188:LEU:HD21	2.47	0.44
2:C3:69:TRP:CZ3	2:C3:124:LEU:HD11	2.52	0.44
2:C3:75:HIS:HA	2:C3:198:ILE:O	2.17	0.44
2:C3:84:PRO:HD2	2:C3:186:LEU:CD2	2.48	0.44
2:C3:134:HIS:HB3	2:C3:135:THR:H	1.46	0.44
2:C3:152:TYR:OH	3:D3:60:PRO:HD3	2.17	0.44
2:C3:160:HIS:HE2	3:D3:51:TYR:HE1	1.64	0.44
2:C4:63:THR:CG2	3:EC:188:LEU:HD21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C5:69:TRP:CZ3	2:C5:124:LEU:HD11	2.52	0.44
2:C5:75:HIS:HA	2:C5:198:ILE:O	2.17	0.44
2:C7:39:PRO:HB3	2:C7:176:PRO:HA	1.99	0.44
2:C7:69:TRP:CZ3	2:C7:124:LEU:HD11	2.52	0.44
2:C8:135:THR:HG23	2:C8:145:LEU:HD11	1.99	0.44
2:C9:63:THR:CG2	3:DL:188:LEU:HD21	2.47	0.44
2:C9:69:TRP:CZ3	2:C9:124:LEU:HD11	2.52	0.44
2:CA:39:PRO:HB3	2:CA:176:PRO:HA	1.99	0.44
2:CA:69:TRP:CZ3	2:CA:124:LEU:HD11	2.52	0.44
2:CA:125:CYS:SG	2:CA:160:HIS:HD2	2.40	0.44
2:CA:156:SER:HA	2:CA:160:HIS:CD2	2.52	0.44
2:CB:57:THR:HG22	2:CB:58:LEU:H	1.82	0.44
2:CB:69:TRP:CZ3	2:CB:124:LEU:HD11	2.52	0.44
2:CB:125:CYS:SG	2:CB:160:HIS:HD2	2.40	0.44
2:CE:125:CYS:SG	2:CE:160:HIS:HD2	2.40	0.44
2:CE:135:THR:HG23	2:CE:145:LEU:HD11	1.98	0.44
2:CF:54:LEU:HD21	2:CF:97:VAL:HG11	1.99	0.44
2:CF:54:LEU:HB2	2:CF:220:ALA:HB3	1.99	0.44
2:CF:57:THR:HG22	2:CF:58:LEU:H	1.82	0.44
2:CF:84:PRO:HD2	2:CF:186:LEU:CD2	2.48	0.44
2:CH:54:LEU:HD21	2:CH:97:VAL:HG11	1.99	0.44
2:CI:54:LEU:HB2	2:CI:220:ALA:HB3	1.99	0.44
2:CI:69:TRP:CZ3	2:CI:124:LEU:HD11	2.52	0.44
2:CL:160:HIS:HE2	3:DL:51:TYR:HE1	1.64	0.44
2:CM:34:TYR:HA	2:CM:174:VAL:O	2.18	0.44
2:CN:157:VAL:HG23	3:DN:50:THR:HG21	1.99	0.44
2:CO:153:GLN:NE2	3:DO:55:SER:CB	2.80	0.44
2:CQ:157:VAL:HG23	3:DQ:50:THR:HG21	1.99	0.44
2:CR:83:LEU:HA	2:CR:84:PRO:HA	1.60	0.44
2:CR:180:PRO:HD2	2:CR:189:HIS:HE1	1.76	0.44
2:CS:75:HIS:HA	2:CS:198:ILE:O	2.17	0.44
2:CT:57:THR:HG22	2:CT:58:LEU:H	1.83	0.44
2:CT:84:PRO:HD2	2:CT:186:LEU:CD2	2.48	0.44
2:CV:54:LEU:HD21	2:CV:97:VAL:HG11	1.99	0.44
2:CV:84:PRO:HD2	2:CV:186:LEU:CD2	2.48	0.44
2:CV:125:CYS:SG	2:CV:160:HIS:HD2	2.40	0.44
2:CV:152:TYR:HB3	2:CV:197:LEU:HD22	2.00	0.44
2:CW:75:HIS:HA	2:CW:198:ILE:O	2.17	0.44
2:CX:34:TYR:HA	2:CX:174:VAL:O	2.18	0.44
2:CX:57:THR:HG22	2:CX:58:LEU:H	1.82	0.44
2:CX:135:THR:HG23	2:CX:145:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:117:SER:HB3	3:DZ:192:THR:CG2	2.47	0.44
2:Cb:160:HIS:HE2	3:Db:51:TYR:HE1	1.64	0.44
2:Cc:129:VAL:HA	2:Cc:130:PRO:HD3	1.78	0.44
2:Cc:160:HIS:HE2	3:Dc:51:TYR:HE1	1.64	0.44
2:Cd:57:THR:HG22	2:Cd:58:LEU:H	1.82	0.44
2:Cd:152:TYR:HB3	2:Cd:197:LEU:HD22	2.00	0.44
2:Cd:153:GLN:NE2	3:Dd:55:SER:CB	2.80	0.44
2:Cd:160:HIS:HE2	3:Dd:51:TYR:HE1	1.64	0.44
2:Cf:117:SER:HB3	3:DV:192:THR:CG2	2.48	0.44
2:Cg:69:TRP:CZ3	2:Cg:124:LEU:HD11	2.52	0.44
2:Cg:78:ALA:HB1	2:Cg:195:VAL:HG12	1.99	0.44
2:Cg:125:CYS:SG	2:Cg:160:HIS:HD2	2.40	0.44
2:Ch:135:THR:HG23	2:Ch:145:LEU:HD11	1.99	0.44
2:Ci:83:LEU:HA	2:Ci:84:PRO:HA	1.60	0.44
2:Cj:75:HIS:HA	2:Cj:198:ILE:O	2.17	0.44
2:Cj:157:VAL:HG23	3:Dj:50:THR:HG21	1.99	0.44
2:Ck:75:HIS:HA	2:Ck:198:ILE:O	2.17	0.44
2:Ck:152:TYR:OH	3:Dk:60:PRO:HD3	2.17	0.44
2:Cm:63:THR:CG2	3:DD:188:LEU:HD21	2.47	0.44
2:Cm:69:TRP:CZ3	2:Cm:124:LEU:HD11	2.52	0.44
2:Cm:153:GLN:NE2	3:Dm:55:SER:CB	2.80	0.44
2:Co:108:TRP:O	2:Co:218:ILE:HD12	2.17	0.44
2:Co:125:CYS:SG	2:Co:160:HIS:HD2	2.40	0.44
2:Cp:63:THR:CG2	3:D0:188:LEU:HD21	2.47	0.44
2:Cp:84:PRO:HD2	2:Cp:186:LEU:CD2	2.48	0.44
2:Cr:39:PRO:HB3	2:Cr:176:PRO:HA	1.99	0.44
2:Cr:69:TRP:CZ3	2:Cr:124:LEU:HD11	2.52	0.44
2:Cs:73:GLN:HA	2:Cs:73:GLN:NE2	2.17	0.44
2:Ct:216:ALA:HA	2:Ct:217:PRO:HD3	1.78	0.44
2:Cw:84:PRO:HD2	2:Cw:186:LEU:CD2	2.48	0.44
2:Cw:125:CYS:SG	2:Cw:160:HIS:HD2	2.40	0.44
2:Cw:153:GLN:NE2	3:ED:55:SER:CB	2.80	0.44
2:Cx:69:TRP:CZ3	2:Cx:124:LEU:HD11	2.52	0.44
2:Cx:153:GLN:NE2	3:EE:55:SER:CB	2.80	0.44
2:Cx:156:SER:HA	2:Cx:160:HIS:CD2	2.52	0.44
3:D0:195:ASP:HB2	3:D0:198:VAL:HG22	1.98	0.44
3:D1:195:ASP:HB2	3:D1:198:VAL:HG22	1.98	0.44
3:D2:179:VAL:HG12	3:D2:181:GLY:N	2.33	0.44
3:D2:198:VAL:HG23	3:D2:199:ASN:H	1.82	0.44
3:D3:77:ASP:O	3:D3:79:SER:N	2.50	0.44
3:D4:154:PHE:CG	3:D4:155:SER:N	2.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D4:172:ALA:O	3:D4:178:ASN:OD1	2.35	0.44
3:D4:175:THR:OG1	3:D4:178:ASN:ND2	2.51	0.44
3:D5:85:LEU:O	3:D5:91:ALA:CB	2.64	0.44
3:D6:7:SER:OG	3:D6:11:SER:HB3	2.17	0.44
3:D7:175:THR:OG1	3:D7:178:ASN:ND2	2.51	0.44
3:D8:19:PRO:HB3	4:F7:30:TYR:CD2	2.52	0.44
3:D9:19:PRO:HB3	4:Fd:30:TYR:CD2	2.52	0.44
3:DB:179:VAL:HG12	3:DB:181:GLY:N	2.32	0.44
3:DB:198:VAL:HG23	3:DB:199:ASN:H	1.82	0.44
3:DD:56:ILE:CG1	3:DD:74:PHE:CE1	2.98	0.44
3:DD:77:ASP:O	3:DD:79:SER:N	2.50	0.44
3:DE:97:PHE:HB3	3:DE:218:HIS:O	2.17	0.44
3:DH:75:GLN:NE2	3:DH:184:GLN:OE1	2.49	0.44
3:DI:179:VAL:HG12	3:DI:181:GLY:N	2.32	0.44
3:DJ:195:ASP:HB2	3:DJ:198:VAL:HG22	1.98	0.44
3:DK:36:VAL:HA	3:DK:37:PRO:HD3	1.53	0.44
3:DL:134:THR:OG1	3:DL:137:GLU:HG3	2.17	0.44
3:DM:7:SER:OG	3:DM:11:SER:HB3	2.17	0.44
3:DM:77:ASP:O	3:DM:79:SER:N	2.50	0.44
3:DO:7:SER:OG	3:DO:11:SER:HB3	2.17	0.44
3:DO:19:PRO:HB3	4:FN:30:TYR:CD2	2.52	0.44
3:DQ:7:SER:OG	3:DQ:11:SER:HB3	2.17	0.44
3:DS:7:SER:OG	3:DS:11:SER:HB3	2.17	0.44
3:DS:121:LEU:C	3:DS:121:LEU:CD2	2.89	0.44
3:DT:172:ALA:O	3:DT:178:ASN:OD1	2.34	0.44
3:DT:198:VAL:HG23	3:DT:199:ASN:H	1.82	0.44
3:DV:7:SER:OG	3:DV:11:SER:HB3	2.17	0.44
3:DV:19:PRO:HB3	4:FU:30:TYR:CD2	2.52	0.44
3:DW:7:SER:OG	3:DW:11:SER:HB3	2.17	0.44
3:DW:43:PHE:O	3:DW:44:ILE:C	2.60	0.44
3:DW:172:ALA:O	3:DW:178:ASN:OD1	2.34	0.44
3:DW:175:THR:OG1	3:DW:178:ASN:ND2	2.51	0.44
3:DX:160:TYR:CD1	3:DX:160:TYR:C	2.94	0.44
3:DX:198:VAL:HG23	3:DX:199:ASN:H	1.82	0.44
3:DZ:97:PHE:HB3	3:DZ:218:HIS:O	2.17	0.44
3:DZ:101:ARG:O	3:DZ:101:ARG:HG2	2.17	0.44
3:DZ:160:TYR:CD1	3:DZ:160:TYR:C	2.94	0.44
3:Db:75:GLN:NE2	3:Db:184:GLN:OE1	2.49	0.44
3:Db:77:ASP:O	3:Db:79:SER:N	2.50	0.44
3:Db:172:ALA:O	3:Db:178:ASN:OD1	2.35	0.44
3:Db:175:THR:OG1	3:Db:178:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dc:77:ASP:O	3:Dc:79:SER:N	2.50	0.44
3:Df:19:PRO:HB3	4:Fe:30:TYR:CD2	2.52	0.44
3:Dh:77:ASP:O	3:Dh:79:SER:N	2.50	0.44
3:Di:36:VAL:HA	3:Di:37:PRO:HD3	1.53	0.44
3:Di:154:PHE:CG	3:Di:155:SER:N	2.84	0.44
3:Di:198:VAL:HG23	3:Di:199:ASN:H	1.82	0.44
3:Dj:175:THR:OG1	3:Dj:178:ASN:ND2	2.51	0.44
3:Dm:172:ALA:O	3:Dm:178:ASN:OD1	2.35	0.44
3:Dn:7:SER:OG	3:Dn:11:SER:HB3	2.17	0.44
3:Do:7:SER:OG	3:Do:11:SER:HB3	2.17	0.44
3:Do:77:ASP:O	3:Do:79:SER:N	2.50	0.44
3:Do:134:THR:OG1	3:Do:137:GLU:HG3	2.17	0.44
3:Do:154:PHE:CG	3:Do:155:SER:N	2.84	0.44
3:Do:175:THR:OG1	3:Do:178:ASN:ND2	2.51	0.44
3:Dq:103:SER:HB3	3:Dq:159:PRO:CA	2.35	0.44
3:Dq:160:TYR:CD1	3:Dq:160:TYR:C	2.94	0.44
3:EA:7:SER:OG	3:EA:11:SER:HB3	2.17	0.44
3:EA:179:VAL:HG12	3:EA:181:GLY:N	2.32	0.44
3:EC:134:THR:OG1	3:EC:137:GLU:HG3	2.17	0.44
3:ED:101:ARG:O	3:ED:101:ARG:HG2	2.17	0.44
4:F3:16:GLY:O	4:F3:18:SER:N	2.50	0.44
4:FG:25:PHE:HZ	4:FH:22:VAL:HG11	1.81	0.44
4:FI:16:GLY:O	4:FI:18:SER:N	2.50	0.44
4:FN:16:GLY:O	4:FN:18:SER:N	2.50	0.44
4:FO:16:GLY:O	4:FO:18:SER:N	2.50	0.44
4:Fk:16:GLY:O	4:Fk:18:SER:N	2.50	0.44
4:Fu:25:PHE:HZ	4:Fv:22:VAL:HG11	1.81	0.44
1:A2:56:VAL:HG13	1:A2:193:GLY:O	2.17	0.44
1:A4:201:ALA:O	1:A4:202:HIS:HD2	2.01	0.44
1:A6:55:HIS:O	1:A6:194:SER:HB2	2.17	0.44
1:A7:62:SER:HB2	1:A7:73:ASN:ND2	2.27	0.44
1:A8:26:VAL:HG12	1:A8:27:HIS:N	2.32	0.44
1:A8:201:ALA:O	1:A8:202:HIS:CD2	2.71	0.44
1:A9:170:PHE:CD2	1:A9:222:ARG:NH1	2.85	0.44
1:A9:201:ALA:O	1:A9:202:HIS:HD2	2.01	0.44
1:AB:49:THR:HG22	1:AB:50:GLY:H	1.82	0.44
1:AB:82:LEU:CD2	1:AB:84:LEU:HD11	2.46	0.44
1:AB:109:VAL:HG22	1:AB:191:HIS:HD2	1.82	0.44
1:AB:234:LYS:HA	1:AB:234:LYS:HD3	1.89	0.44
1:AD:49:THR:HG22	1:AD:50:GLY:H	1.82	0.44
1:AD:109:VAL:HG22	1:AD:191:HIS:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:38:PHE:CD1	1:AJ:137:GLY:HA2	2.48	0.44
1:AF:181:LYS:O	1:AF:182:ALA:CB	2.66	0.44
1:AH:170:PHE:CD2	1:AH:222:ARG:NH1	2.85	0.44
1:AH:201:ALA:O	1:AH:202:HIS:HD2	2.01	0.44
1:AI:22:VAL:CG1	1:AI:23:ASP:N	2.79	0.44
1:AI:52:PRO:HD3	1:AI:115:THR:O	2.17	0.44
1:AI:199:SER:C	1:AI:201:ALA:H	2.25	0.44
1:AJ:170:PHE:CD2	1:AJ:222:ARG:NH1	2.85	0.44
1:AJ:201:ALA:O	1:AJ:202:HIS:HD2	2.01	0.44
1:AK:7:ASP:O	1:AK:8:GLY:C	2.59	0.44
1:AK:109:VAL:HG22	1:AK:191:HIS:HD2	1.82	0.44
1:AM:201:ALA:O	1:AM:202:HIS:CD2	2.71	0.44
1:AN:83:GLU:C	1:AN:84:LEU:HD12	2.41	0.44
1:AO:52:PRO:HD3	1:AO:115:THR:O	2.17	0.44
1:AO:56:VAL:HG13	1:AO:193:GLY:O	2.17	0.44
1:AP:201:ALA:O	1:AP:202:HIS:HD2	2.01	0.44
1:AR:146:ILE:HG22	1:AR:146:ILE:O	2.17	0.44
1:AS:165:ARG:HG2	2:CT:180:PRO:O	2.16	0.44
1:AS:220:CYS:HA	1:AS:221:PRO:HD2	1.82	0.44
1:AT:56:VAL:HG13	1:AT:193:GLY:O	2.17	0.44
1:AT:201:ALA:O	1:AT:202:HIS:CD2	2.71	0.44
1:AV:139:SER:HA	1:AV:140:PRO:HD3	1.62	0.44
1:AW:181:LYS:O	1:AW:182:ALA:CB	2.66	0.44
1:AX:7:ASP:O	1:AX:8:GLY:C	2.59	0.44
1:AX:199:SER:C	1:AX:201:ALA:H	2.25	0.44
1:AY:26:VAL:HG12	1:AY:27:HIS:N	2.32	0.44
1:AY:55:HIS:O	1:AY:194:SER:HB2	2.18	0.44
1:AY:170:PHE:CD2	1:AY:222:ARG:NH1	2.85	0.44
1:AY:201:ALA:O	1:AY:202:HIS:CD2	2.71	0.44
1:AZ:62:SER:HB2	1:AZ:73:ASN:ND2	2.27	0.44
1:AZ:201:ALA:O	1:AZ:202:HIS:HD2	2.01	0.44
1:Aa:45:LEU:HB2	1:Aa:202:HIS:HA	1.98	0.44
1:Aa:146:ILE:O	1:Aa:146:ILE:HG22	2.17	0.44
1:Ac:146:ILE:HG21	1:Ac:146:ILE:HD13	1.74	0.44
1:Ad:26:VAL:HG12	1:Ad:27:HIS:N	2.32	0.44
1:Ad:52:PRO:HD3	1:Ad:115:THR:O	2.17	0.44
1:Ae:52:PRO:HD3	1:Ae:115:THR:O	2.17	0.44
1:Af:170:PHE:CD2	1:Af:222:ARG:NH1	2.85	0.44
1:Af:201:ALA:O	1:Af:202:HIS:CD2	2.71	0.44
1:Ag:181:LYS:O	1:Ag:182:ALA:CB	2.66	0.44
1:Ah:56:VAL:HG13	1:Ah:193:GLY:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:183:THR:HA	1:Ah:186:TRP:HB3	1.98	0.44
1:Ak:146:ILE:O	1:Ak:146:ILE:HG22	2.17	0.44
1:Am:107:PHE:HB2	1:Am:194:SER:OG	2.16	0.44
1:An:55:HIS:O	1:An:194:SER:HB2	2.18	0.44
1:An:181:LYS:O	1:An:182:ALA:CB	2.66	0.44
1:Ao:220:CYS:HA	1:Ao:221:PRO:HD2	1.82	0.44
1:BB:56:VAL:HG13	1:BB:193:GLY:O	2.17	0.44
1:BC:170:PHE:CD2	1:BC:222:ARG:NH1	2.85	0.44
1:BC:181:LYS:O	1:BC:182:ALA:CB	2.66	0.44
1:BC:199:SER:C	1:BC:201:ALA:H	2.25	0.44
1:BE:201:ALA:O	1:BE:202:HIS:HD2	2.01	0.44
1:BF:181:LYS:O	1:BF:182:ALA:CB	2.66	0.44
1:BF:201:ALA:O	1:BF:202:HIS:HD2	2.01	0.44
1:BG:22:VAL:HG12	1:BG:23:ASP:N	2.33	0.44
1:BG:201:ALA:O	1:BG:202:HIS:CD2	2.71	0.44
1:BH:199:SER:C	1:BH:201:ALA:H	2.25	0.44
1:BI:224:ILE:HA	1:BI:225:PRO:HD2	1.86	0.44
2:C1:54:LEU:HD21	2:C1:97:VAL:HG11	1.99	0.44
2:C1:153:GLN:NE2	3:D1:55:SER:CB	2.80	0.44
2:C2:63:THR:CG2	3:Dh:188:LEU:HD21	2.47	0.44
2:C2:152:TYR:HB3	2:C2:197:LEU:HD22	2.00	0.44
2:C4:152:TYR:OH	3:D4:60:PRO:HD3	2.17	0.44
2:C5:57:THR:HG22	2:C5:58:LEU:H	1.82	0.44
2:C6:69:TRP:CZ3	2:C6:124:LEU:HD11	2.52	0.44
2:C6:75:HIS:HA	2:C6:198:ILE:O	2.17	0.44
2:C6:83:LEU:HA	2:C6:84:PRO:HA	1.60	0.44
2:C6:116:ALA:N	3:DE:119:LYS:NZ	2.66	0.44
2:C7:42:ARG:HA	2:C7:43:PRO:HD2	1.64	0.44
2:C7:65:LYS:CB	3:Dm:135:ARG:HH21	2.29	0.44
2:C7:75:HIS:HA	2:C7:198:ILE:O	2.17	0.44
2:C9:180:PRO:HD2	2:C9:189:HIS:HE1	1.77	0.44
2:CA:116:ALA:N	3:DW:119:LYS:NZ	2.66	0.44
2:CB:23:ILE:HD12	2:CB:23:ILE:H	1.80	0.44
2:CB:39:PRO:HB3	2:CB:176:PRO:HA	1.99	0.44
2:CC:69:TRP:CZ3	2:CC:124:LEU:HD11	2.52	0.44
2:CC:92:GLY:HA3	2:Cm:228:ASN:OD1	2.16	0.44
2:CC:108:TRP:O	2:CC:218:ILE:HD12	2.16	0.44
2:CD:34:TYR:HA	2:CD:174:VAL:O	2.18	0.44
2:CD:152:TYR:OH	3:DD:60:PRO:HD3	2.17	0.44
2:CE:63:THR:CG2	3:DF:188:LEU:HD21	2.47	0.44
2:CE:152:TYR:HB3	2:CE:197:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:88:LEU:C	2:CF:90:LYS:H	2.24	0.44
2:CF:153:GLN:NE2	3:DF:55:SER:CB	2.80	0.44
2:CG:23:ILE:HD12	2:CG:23:ILE:H	1.80	0.44
2:CG:152:TYR:OH	3:DG:60:PRO:HD3	2.17	0.44
2:CH:108:TRP:O	2:CH:218:ILE:HD12	2.17	0.44
2:CI:57:THR:HG22	2:CI:58:LEU:H	1.82	0.44
2:CI:75:HIS:HA	2:CI:198:ILE:O	2.17	0.44
2:CI:78:ALA:HB1	2:CI:195:VAL:HG12	1.99	0.44
2:CJ:34:TYR:HA	2:CJ:174:VAL:O	2.18	0.44
2:CJ:157:VAL:HG23	3:DJ:50:THR:HG21	1.99	0.44
2:CJ:180:PRO:HD2	2:CJ:189:HIS:HE1	1.76	0.44
2:CK:34:TYR:HA	2:CK:174:VAL:O	2.18	0.44
2:CM:152:TYR:OH	3:DM:60:PRO:HD3	2.17	0.44
2:CN:54:LEU:HD21	2:CN:97:VAL:HG11	1.99	0.44
2:CN:125:CYS:SG	2:CN:160:HIS:HD2	2.41	0.44
2:CP:49:ASP:HA	2:CP:50:PRO:HD2	1.80	0.44
2:CP:69:TRP:CZ3	2:CP:124:LEU:HD11	2.52	0.44
2:CP:78:ALA:HB1	2:CP:195:VAL:HG12	1.99	0.44
2:CP:108:TRP:O	2:CP:218:ILE:HD12	2.16	0.44
2:CR:39:PRO:HB3	2:CR:176:PRO:HA	2.00	0.44
2:CR:116:ALA:N	3:EE:119:LYS:NZ	2.66	0.44
2:CR:125:CYS:SG	2:CR:160:HIS:HD2	2.40	0.44
2:CT:160:HIS:HD1	2:CT:160:HIS:N	2.14	0.44
2:CV:63:THR:CG2	3:DB:188:LEU:HD21	2.47	0.44
2:CV:69:TRP:CZ3	2:CV:124:LEU:HD11	2.52	0.44
2:CW:58:LEU:HB3	2:CW:59:SER:H	1.65	0.44
2:CZ:75:HIS:HA	2:CZ:198:ILE:O	2.17	0.44
2:CZ:153:GLN:NE2	3:DZ:55:SER:CB	2.80	0.44
2:CZ:180:PRO:HD2	2:CZ:189:HIS:HE1	1.76	0.44
2:Ca:34:TYR:HA	2:Ca:174:VAL:O	2.18	0.44
2:Cb:39:PRO:HB3	2:Cb:176:PRO:HA	1.99	0.44
2:Cb:69:TRP:CZ3	2:Cb:124:LEU:HD11	2.52	0.44
2:Cd:34:TYR:HA	2:Cd:174:VAL:O	2.18	0.44
2:Cd:125:CYS:SG	2:Cd:160:HIS:HD2	2.40	0.44
2:Ce:152:TYR:HB2	2:Ce:197:LEU:HD22	1.97	0.44
2:Cf:54:LEU:HD21	2:Cf:97:VAL:HG11	1.99	0.44
2:Cf:69:TRP:CZ3	2:Cf:124:LEU:HD11	2.52	0.44
2:Cg:156:SER:HA	2:Cg:160:HIS:CD2	2.52	0.44
2:Cg:212:THR:HG23	3:D3:188:LEU:HD22	1.96	0.44
2:Ci:84:PRO:HD2	2:Ci:186:LEU:CD2	2.48	0.44
2:Ci:125:CYS:SG	2:Ci:160:HIS:HD2	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ci:156:SER:HA	2:Ci:160:HIS:CD2	2.52	0.44
2:Ci:180:PRO:HD2	2:Ci:189:HIS:HE1	1.76	0.44
2:Ck:78:ALA:HB1	2:Ck:195:VAL:HG12	1.99	0.44
2:Ck:135:THR:HG23	2:Ck:145:LEU:HD11	1.98	0.44
2:Cl:36:TYR:CE2	2:Cl:130:PRO:CG	2.98	0.44
2:Cn:34:TYR:HA	2:Cn:174:VAL:O	2.18	0.44
2:Cn:69:TRP:CZ3	2:Cn:124:LEU:HD11	2.52	0.44
2:Co:39:PRO:HB3	2:Co:176:PRO:HA	1.99	0.44
2:Cp:13:ARG:HA	2:Cp:13:ARG:HD3	1.72	0.44
2:Cp:36:TYR:CE2	2:Cp:130:PRO:CG	2.98	0.44
2:Cq:34:TYR:HA	2:Cq:174:VAL:O	2.18	0.44
2:Cq:39:PRO:HB3	2:Cq:176:PRO:HA	1.99	0.44
2:Cq:69:TRP:CZ3	2:Cq:124:LEU:HD11	2.52	0.44
2:Cq:152:TYR:OH	3:Dq:60:PRO:HD3	2.17	0.44
2:Cr:23:ILE:HD12	2:Cr:23:ILE:H	1.80	0.44
2:Cr:46:THR:CG2	3:Ds:165:ASP:HA	2.38	0.44
2:Cr:152:TYR:HB3	2:Cr:197:LEU:HD22	2.00	0.44
2:Cu:63:THR:CG2	3:D5:188:LEU:HD21	2.47	0.44
2:Cu:84:PRO:HD2	2:Cu:186:LEU:CD2	2.48	0.44
2:Cu:156:SER:HA	2:Cu:160:HIS:CD2	2.52	0.44
2:Cv:34:TYR:HA	2:Cv:174:VAL:O	2.18	0.44
2:Cw:69:TRP:CZ3	2:Cw:124:LEU:HD11	2.52	0.44
2:Cw:156:SER:HA	2:Cw:160:HIS:CD2	2.52	0.44
2:Cx:108:TRP:O	2:Cx:218:ILE:HD12	2.17	0.44
3:D0:103:SER:HB3	3:D0:159:PRO:CA	2.35	0.44
3:D1:77:ASP:O	3:D1:79:SER:N	2.50	0.44
3:D2:160:TYR:CD1	3:D2:160:TYR:C	2.94	0.44
3:D3:172:ALA:O	3:D3:178:ASN:OD1	2.35	0.44
3:D4:134:THR:OG1	3:D4:137:GLU:HG3	2.17	0.44
3:D5:160:TYR:CD1	3:D5:160:TYR:C	2.94	0.44
3:D7:134:THR:OG1	3:D7:137:GLU:HG3	2.17	0.44
3:DA:13:SER:OG	3:DA:15:MET:CE	2.64	0.44
3:DC:198:VAL:HG23	3:DC:199:ASN:H	1.82	0.44
3:DD:43:PHE:O	3:DD:44:ILE:C	2.60	0.44
3:DD:97:PHE:HB3	3:DD:218:HIS:O	2.17	0.44
3:DD:101:ARG:O	3:DD:101:ARG:HG2	2.17	0.44
3:DE:7:SER:OG	3:DE:11:SER:HB3	2.17	0.44
3:DF:179:VAL:HG12	3:DF:181:GLY:N	2.32	0.44
3:DG:198:VAL:HG23	3:DG:199:ASN:H	1.82	0.44
3:DH:19:PRO:HB3	4:FG:30:TYR:CD2	2.52	0.44
3:DJ:7:SER:OG	3:DJ:11:SER:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DM:97:PHE:HB3	3:DM:218:HIS:O	2.17	0.44
3:DN:101:ARG:O	3:DN:101:ARG:HG2	2.17	0.44
3:DN:160:TYR:C	3:DN:160:TYR:CD1	2.94	0.44
3:DO:103:SER:HB2	3:DO:159:PRO:HA	1.95	0.44
3:DQ:101:ARG:O	3:DQ:101:ARG:HG2	2.17	0.44
3:DR:160:TYR:C	3:DR:160:TYR:CD1	2.94	0.44
3:DS:175:THR:OG1	3:DS:178:ASN:ND2	2.51	0.44
3:DT:19:PRO:HB3	4:FS:30:TYR:CD2	2.52	0.44
3:DT:97:PHE:HB3	3:DT:218:HIS:O	2.17	0.44
3:DV:160:TYR:CD1	3:DV:160:TYR:C	2.94	0.44
3:DX:134:THR:OG1	3:DX:137:GLU:HG3	2.17	0.44
3:DY:134:THR:OG1	3:DY:137:GLU:HG3	2.17	0.44
3:DY:198:VAL:HG23	3:DY:199:ASN:H	1.82	0.44
3:Db:160:TYR:CD1	3:Db:160:TYR:C	2.94	0.44
3:Dc:19:PRO:HB3	4:Fb:30:TYR:CD2	2.52	0.44
3:Dc:134:THR:OG1	3:Dc:137:GLU:HG3	2.17	0.44
3:De:134:THR:OG1	3:De:137:GLU:HG3	2.17	0.44
3:Dm:179:VAL:HG12	3:Dm:181:GLY:N	2.33	0.44
3:Dn:97:PHE:HB3	3:Dn:218:HIS:O	2.17	0.44
3:Dp:160:TYR:CD1	3:Dp:160:TYR:C	2.94	0.44
3:Dq:175:THR:OG1	3:Dq:178:ASN:ND2	2.51	0.44
3:Dr:103:SER:HB3	3:Dr:159:PRO:CA	2.35	0.44
3:ED:43:PHE:O	3:ED:44:ILE:C	2.60	0.44
4:F9:16:GLY:O	4:F9:18:SER:N	2.50	0.44
4:FU:22:VAL:HG11	4:FY:25:PHE:HZ	1.81	0.44
4:FW:16:GLY:O	4:FW:18:SER:N	2.50	0.44
4:Fm:16:GLY:O	4:Fm:18:SER:N	2.50	0.44
4:Fs:16:GLY:O	4:Fs:18:SER:N	2.50	0.44
1:A0:206:GLY:CA	1:AZ:121:LEU:HD21	2.47	0.44
1:A3:101:PHE:CD2	1:A3:143:VAL:HG11	2.44	0.44
1:A3:170:PHE:CD2	1:A3:222:ARG:NH1	2.85	0.44
1:A4:52:PRO:HD3	1:A4:115:THR:O	2.17	0.44
1:A4:55:HIS:O	1:A4:194:SER:HB2	2.18	0.44
1:A5:26:VAL:HG12	1:A5:27:HIS:N	2.32	0.44
1:A5:201:ALA:O	1:A5:202:HIS:CD2	2.71	0.44
1:A7:26:VAL:HG12	1:A7:27:HIS:N	2.32	0.44
1:A7:181:LYS:O	1:A7:182:ALA:CB	2.66	0.44
1:A8:170:PHE:CD2	1:A8:222:ARG:NH1	2.85	0.44
1:A9:55:HIS:O	1:A9:194:SER:HB2	2.18	0.44
1:AB:219:TYR:HD2	3:DB:39:ARG:HB2	1.79	0.44
1:AC:7:ASP:O	1:AC:8:GLY:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:181:LYS:O	1:AC:182:ALA:CB	2.66	0.44
1:AC:201:ALA:O	1:AC:202:HIS:HD2	2.01	0.44
1:AD:137:GLY:HA2	1:AE:38:PHE:CD1	2.49	0.44
1:AD:146:ILE:HG22	1:AD:146:ILE:O	2.17	0.44
1:AE:101:PHE:O	1:AE:199:SER:OG	2.33	0.44
1:AF:146:ILE:HG22	1:AF:146:ILE:O	2.17	0.44
1:AI:112:PRO:HB2	3:DJ:223:PRO:HB3	1.98	0.44
1:AJ:109:VAL:HG22	1:AJ:191:HIS:HD2	1.82	0.44
1:AK:201:ALA:O	1:AK:202:HIS:HD2	2.01	0.44
1:AO:201:ALA:O	1:AO:202:HIS:CD2	2.71	0.44
1:AP:56:VAL:HG13	1:AP:193:GLY:O	2.17	0.44
1:AP:143:VAL:H	3:DQ:14:PHE:CB	2.28	0.44
1:AP:201:ALA:O	1:AP:202:HIS:CD2	2.71	0.44
1:AQ:52:PRO:HD3	1:AQ:115:THR:O	2.17	0.44
1:AQ:201:ALA:O	1:AQ:202:HIS:CD2	2.71	0.44
1:AS:7:ASP:O	1:AS:8:GLY:C	2.59	0.44
1:AS:26:VAL:HG12	1:AS:27:HIS:N	2.32	0.44
1:AU:26:VAL:HG12	1:AU:27:HIS:N	2.32	0.44
1:AW:199:SER:C	1:AW:201:ALA:H	2.25	0.44
1:AY:49:THR:HG22	1:AY:50:GLY:H	1.82	0.44
1:AY:146:ILE:HG22	1:AY:146:ILE:O	2.17	0.44
1:AZ:52:PRO:HD3	1:AZ:115:THR:O	2.17	0.44
1:AZ:143:VAL:H	3:D1:14:PHE:CB	2.28	0.44
1:Aa:52:PRO:HD3	1:Aa:115:THR:O	2.17	0.44
1:Aa:56:VAL:HG13	1:Aa:193:GLY:O	2.17	0.44
1:Ac:201:ALA:O	1:Ac:202:HIS:CD2	2.71	0.44
1:Ad:121:LEU:HD21	1:Ae:206:GLY:CA	2.47	0.44
1:Ae:109:VAL:HG22	1:Ae:191:HIS:HD2	1.82	0.44
1:Ae:199:SER:C	1:Ae:201:ALA:H	2.25	0.44
1:Ag:22:VAL:HG12	1:Ag:23:ASP:N	2.33	0.44
1:Ag:55:HIS:O	1:Ag:194:SER:HB2	2.18	0.44
1:Ag:170:PHE:CD2	1:Ag:222:ARG:NH1	2.85	0.44
1:Aj:52:PRO:HD3	1:Aj:115:THR:O	2.17	0.44
1:Aj:201:ALA:O	1:Aj:202:HIS:CD2	2.71	0.44
1:Ak:52:PRO:HD3	1:Ak:115:THR:O	2.17	0.44
1:Ak:199:SER:C	1:Ak:201:ALA:H	2.25	0.44
1:Al:49:THR:HG22	1:Al:50:GLY:H	1.82	0.44
1:Al:181:LYS:O	1:Al:182:ALA:CB	2.66	0.44
1:Ao:146:ILE:HG22	1:Ao:146:ILE:O	2.17	0.44
1:BA:55:HIS:O	1:BA:194:SER:HB2	2.18	0.44
1:BA:146:ILE:O	1:BA:146:ILE:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:181:LYS:O	1:BA:182:ALA:CB	2.66	0.44
1:BC:62:SER:HB2	1:BC:73:ASN:ND2	2.27	0.44
1:BD:92:THR:HB	1:BD:93:THR:H	1.62	0.44
1:BD:199:SER:C	1:BD:201:ALA:H	2.25	0.44
1:BD:201:ALA:O	1:BD:202:HIS:HD2	2.01	0.44
1:BE:52:PRO:HD3	1:BE:115:THR:O	2.17	0.44
1:BG:174:TRP:HB2	2:Cv:188:LEU:CD2	2.44	0.44
1:BI:109:VAL:HG22	1:BI:191:HIS:HD2	1.82	0.44
2:C0:125:CYS:SG	2:C0:160:HIS:HD2	2.40	0.44
2:C0:153:GLN:NE2	3:D0:55:SER:CB	2.80	0.44
2:C1:57:THR:HG22	2:C1:58:LEU:H	1.82	0.44
2:C2:57:THR:HG22	2:C2:58:LEU:H	1.82	0.44
2:C2:134:HIS:HB3	2:C2:135:THR:H	1.46	0.44
2:C3:39:PRO:HB3	2:C3:176:PRO:HA	1.99	0.44
2:C3:54:LEU:HB2	2:C3:220:ALA:HB3	1.99	0.44
2:C4:78:ALA:HB1	2:C4:195:VAL:HG12	1.99	0.44
2:C4:84:PRO:HD2	2:C4:186:LEU:CD2	2.48	0.44
2:C4:134:HIS:HB3	2:C4:135:THR:H	1.47	0.44
2:C5:156:SER:HA	2:C5:160:HIS:CD2	2.52	0.44
2:C5:157:VAL:HG23	3:D5:50:THR:HG21	1.99	0.44
2:C6:157:VAL:HG23	3:D6:50:THR:HG21	1.99	0.44
2:C6:180:PRO:HD2	2:C6:189:HIS:HE1	1.77	0.44
2:C7:78:ALA:HB1	2:C7:195:VAL:HG12	1.99	0.44
2:C7:152:TYR:HB3	2:C7:197:LEU:HD22	2.00	0.44
2:C8:63:THR:CG2	3:D9:188:LEU:HD21	2.47	0.44
2:C8:212:THR:HG23	3:D9:188:LEU:HD22	1.96	0.44
2:C9:54:LEU:HB2	2:C9:220:ALA:HB3	1.99	0.44
2:CB:78:ALA:HB1	2:CB:195:VAL:HG12	1.99	0.44
2:CB:116:ALA:N	3:Df:119:LYS:NZ	2.66	0.44
2:CB:152:TYR:OH	3:DB:60:PRO:HD3	2.17	0.44
2:CE:34:TYR:HA	2:CE:174:VAL:O	2.18	0.44
2:CF:125:CYS:SG	2:CF:160:HIS:HD2	2.40	0.44
2:CH:57:THR:HG22	2:CH:58:LEU:H	1.82	0.44
2:CI:108:TRP:O	2:CI:218:ILE:HD12	2.17	0.44
2:CJ:54:LEU:HB2	2:CJ:220:ALA:HB3	1.99	0.44
2:CJ:57:THR:HG22	2:CJ:58:LEU:H	1.82	0.44
2:CJ:135:THR:HG23	2:CJ:145:LEU:HD11	1.99	0.44
2:CK:54:LEU:HB2	2:CK:220:ALA:HB3	1.99	0.44
2:CL:135:THR:HG23	2:CL:145:LEU:HD11	1.99	0.44
2:CM:69:TRP:CZ3	2:CM:124:LEU:HD11	2.52	0.44
2:CM:78:ALA:HB1	2:CM:195:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CN:156:SER:HA	2:CN:160:HIS:CD2	2.52	0.44
2:CO:46:THR:CG2	3:DK:165:ASP:HA	2.38	0.44
2:CO:135:THR:HG23	2:CO:145:LEU:HD11	1.99	0.44
2:CQ:34:TYR:HA	2:CQ:174:VAL:O	2.18	0.44
2:CQ:108:TRP:O	2:CQ:218:ILE:HD12	2.17	0.44
2:CR:156:SER:HA	2:CR:160:HIS:CD2	2.52	0.44
2:CT:42:ARG:HA	2:CT:43:PRO:HD2	1.64	0.44
2:CT:135:THR:HG23	2:CT:145:LEU:HD11	1.99	0.44
2:CV:116:ALA:N	3:DB:119:LYS:NZ	2.66	0.44
2:CX:63:THR:CG2	3:Dr:188:LEU:HD21	2.47	0.44
2:CX:65:LYS:CB	3:Dr:135:ARG:HH21	2.29	0.44
2:CX:152:TYR:OH	3:DX:60:PRO:HD3	2.17	0.44
2:CY:39:PRO:HB3	2:CY:176:PRO:HA	1.99	0.44
2:CY:152:TYR:HB3	2:CY:197:LEU:HD22	2.00	0.44
2:CZ:36:TYR:CE2	2:CZ:130:PRO:CG	2.98	0.44
2:CZ:56:PRO:C	2:CZ:57:THR:O	2.59	0.44
2:Ca:78:ALA:HB1	2:Ca:195:VAL:HG12	1.99	0.44
2:Ce:116:ALA:N	3:DC:119:LYS:NZ	2.66	0.44
2:Cf:152:TYR:OH	3:Df:60:PRO:HD3	2.17	0.44
2:Ch:54:LEU:HB2	2:Ch:220:ALA:HB3	1.99	0.44
2:Ci:49:ASP:HA	2:Ci:50:PRO:HD2	1.80	0.44
2:Ci:57:THR:HG22	2:Ci:58:LEU:H	1.82	0.44
2:Ci:78:ALA:HB1	2:Ci:195:VAL:HG12	1.99	0.44
2:Cj:36:TYR:CE2	2:Cj:130:PRO:CG	2.98	0.44
2:Cj:42:ARG:HA	2:Cj:43:PRO:HD2	1.64	0.44
2:Cj:160:HIS:HE2	3:Dj:51:TYR:HE1	1.65	0.44
2:Cl:65:LYS:CB	3:D8:135:ARG:HH21	2.29	0.44
2:Cl:84:PRO:HD2	2:Cl:186:LEU:CD2	2.48	0.44
2:Cm:34:TYR:HA	2:Cm:174:VAL:O	2.18	0.44
2:Cm:156:SER:HA	2:Cm:160:HIS:CD2	2.52	0.44
2:Co:135:THR:HG23	2:Co:145:LEU:HD11	1.99	0.44
2:Co:152:TYR:OH	3:Do:60:PRO:HD3	2.17	0.44
2:Co:153:GLN:NE2	3:Do:55:SER:CB	2.80	0.44
2:Cp:116:ALA:N	3:D0:119:LYS:NZ	2.66	0.44
2:Cp:156:SER:HA	2:Cp:160:HIS:CD2	2.52	0.44
2:Cr:153:GLN:NE2	3:Dr:55:SER:CB	2.80	0.44
2:Cr:212:THR:HG23	3:DI:188:LEU:HD22	1.96	0.44
2:Cs:84:PRO:HG3	2:Cs:108:TRP:CH2	2.50	0.44
2:Ct:34:TYR:HA	2:Ct:174:VAL:O	2.18	0.44
2:Cu:152:TYR:HB3	2:Cu:197:LEU:HD22	2.00	0.44
2:Cv:84:PRO:HD2	2:Cv:186:LEU:CD2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cw:54:LEU:HB2	2:Cw:220:ALA:HB3	1.99	0.44
2:Cw:157:VAL:HG23	3:ED:50:THR:HG21	1.99	0.44
2:Cx:54:LEU:HD21	2:Cx:97:VAL:HG11	1.99	0.44
2:Cx:116:ALA:N	3:Do:119:LYS:NZ	2.66	0.44
2:Cx:157:VAL:HG23	3:EE:50:THR:HG21	1.99	0.44
3:D5:134:THR:OG1	3:D5:137:GLU:HG3	2.17	0.44
3:D7:195:ASP:HB2	3:D7:198:VAL:HG22	1.98	0.44
3:D7:198:VAL:HG23	3:D7:199:ASN:H	1.82	0.44
3:D9:7:SER:OG	3:D9:11:SER:HB3	2.17	0.44
3:DC:175:THR:OG1	3:DC:178:ASN:ND2	2.51	0.44
3:DE:175:THR:OG1	3:DE:178:ASN:ND2	2.51	0.44
3:DF:7:SER:OG	3:DF:11:SER:HB3	2.17	0.44
3:DF:198:VAL:HG23	3:DF:199:ASN:H	1.82	0.44
3:DH:77:ASP:O	3:DH:79:SER:N	2.50	0.44
3:DI:56:ILE:CG1	3:DI:74:PHE:CE1	2.98	0.44
3:DJ:101:ARG:HG2	3:DJ:101:ARG:O	2.17	0.44
3:DJ:175:THR:OG1	3:DJ:178:ASN:ND2	2.51	0.44
3:DK:7:SER:OG	3:DK:11:SER:HB3	2.17	0.44
3:DK:134:THR:OG1	3:DK:137:GLU:HG3	2.17	0.44
3:DK:154:PHE:CG	3:DK:155:SER:N	2.84	0.44
3:DK:175:THR:OG1	3:DK:178:ASN:ND2	2.51	0.44
3:DL:7:SER:OG	3:DL:11:SER:HB3	2.17	0.44
3:DM:160:TYR:CD1	3:DM:160:TYR:C	2.94	0.44
3:DQ:19:PRO:HB3	4:FP:30:TYR:CD2	2.52	0.44
3:DS:101:ARG:HG2	3:DS:101:ARG:O	2.17	0.44
3:DU:77:ASP:O	3:DU:79:SER:N	2.50	0.44
3:DW:134:THR:OG1	3:DW:137:GLU:HG3	2.17	0.44
3:DW:198:VAL:HG23	3:DW:199:ASN:H	1.82	0.44
3:DZ:19:PRO:HB3	4:F3:30:TYR:CD2	2.52	0.44
3:Db:134:THR:OG1	3:Db:137:GLU:HG3	2.17	0.44
3:Dc:179:VAL:HG12	3:Dc:181:GLY:N	2.32	0.44
3:Dd:198:VAL:HG23	3:Dd:199:ASN:H	1.82	0.44
3:De:175:THR:OG1	3:De:178:ASN:ND2	2.51	0.44
3:Df:175:THR:OG1	3:Df:178:ASN:ND2	2.51	0.44
3:Dg:175:THR:OG1	3:Dg:178:ASN:ND2	2.51	0.44
3:Dh:43:PHE:O	3:Dh:44:ILE:C	2.60	0.44
3:Dh:175:THR:OG1	3:Dh:178:ASN:ND2	2.51	0.44
3:DI:103:SER:HB2	3:DI:159:PRO:HA	1.95	0.44
3:Dm:175:THR:OG1	3:Dm:178:ASN:ND2	2.51	0.44
3:Dm:198:VAL:HG23	3:Dm:199:ASN:H	1.82	0.44
3:Dn:160:TYR:CD1	3:Dn:160:TYR:C	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dp:134:THR:OG1	3:Dp:137:GLU:HG3	2.17	0.44
3:Dp:175:THR:OG1	3:Dp:178:ASN:ND2	2.51	0.44
3:Ds:7:SER:OG	3:Ds:11:SER:HB3	2.17	0.44
3:Ds:175:THR:OG1	3:Ds:178:ASN:ND2	2.51	0.44
3:EA:77:ASP:O	3:EA:79:SER:N	2.50	0.44
4:FK:16:GLY:O	4:FK:18:SER:N	2.50	0.44
4:FL:16:GLY:O	4:FL:18:SER:N	2.50	0.44
4:FU:25:PHE:HZ	4:FV:22:VAL:HG11	1.81	0.44
1:A0:201:ALA:O	1:A0:202:HIS:HD2	2.01	0.44
1:A1:62:SER:HB2	1:A1:73:ASN:ND2	2.27	0.44
1:A2:170:PHE:CD2	1:A2:222:ARG:NH1	2.85	0.44
1:A3:49:THR:HG22	1:A3:50:GLY:H	1.82	0.44
1:A4:201:ALA:O	1:A4:202:HIS:CD2	2.71	0.44
1:A5:7:ASP:O	1:A5:8:GLY:C	2.59	0.44
1:A6:56:VAL:HG13	1:A6:193:GLY:O	2.17	0.44
1:A6:225:PRO:HA	1:A6:226:PRO:HD2	1.88	0.44
1:A8:87:GLN:O	1:A8:88:PHE:CB	2.62	0.44
1:AA:181:LYS:O	1:AA:182:ALA:CB	2.66	0.44
1:AA:199:SER:C	1:AA:201:ALA:H	2.25	0.44
1:AC:201:ALA:O	1:AC:202:HIS:CD2	2.71	0.44
1:AD:62:SER:O	1:AD:63:THR:CB	2.66	0.44
1:AD:201:ALA:O	1:AD:202:HIS:CD2	2.71	0.44
1:AE:52:PRO:HD3	1:AE:115:THR:O	2.17	0.44
1:AF:199:SER:C	1:AF:201:ALA:H	2.25	0.44
1:AG:164:TRP:HE1	1:AG:187:LEU:CD1	2.28	0.44
1:AH:115:THR:HG23	1:AH:133:LEU:N	2.25	0.44
1:AK:181:LYS:O	1:AK:182:ALA:CB	2.66	0.44
1:AL:146:ILE:O	1:AL:146:ILE:HG22	2.17	0.44
1:AM:199:SER:C	1:AM:201:ALA:H	2.25	0.44
1:AN:22:VAL:HG12	1:AN:23:ASP:N	2.33	0.44
1:AN:56:VAL:HG13	1:AN:193:GLY:O	2.17	0.44
1:AO:170:PHE:CD2	1:AO:222:ARG:NH1	2.85	0.44
1:AR:7:ASP:O	1:AR:8:GLY:C	2.59	0.44
1:AR:201:ALA:O	1:AR:202:HIS:HD2	2.01	0.44
1:AS:52:PRO:HD3	1:AS:115:THR:O	2.17	0.44
1:AT:219:TYR:HD2	3:DU:39:ARG:HB2	1.79	0.44
1:AW:62:SER:O	1:AW:63:THR:CB	2.66	0.44
1:AX:49:THR:HG22	1:AX:50:GLY:H	1.82	0.44
1:AX:201:ALA:O	1:AX:202:HIS:HD2	2.01	0.44
1:AZ:201:ALA:O	1:AZ:202:HIS:CD2	2.71	0.44
1:Aa:22:VAL:HG12	1:Aa:23:ASP:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:146:ILE:HD13	1:Ab:146:ILE:HG21	1.74	0.44
1:Ac:43:LEU:HD23	1:Ac:43:LEU:H	1.81	0.44
1:Ac:121:LEU:HD21	1:Ad:206:GLY:CA	2.47	0.44
1:Ae:26:VAL:HG12	1:Ae:27:HIS:N	2.32	0.44
1:Ae:56:VAL:HG13	1:Ae:193:GLY:O	2.17	0.44
1:Ag:101:PHE:CD2	1:Ag:143:VAL:HG11	2.44	0.44
1:Ag:107:PHE:HB2	1:Ag:194:SER:OG	2.17	0.44
1:Ah:22:VAL:HG12	1:Ah:23:ASP:N	2.33	0.44
1:Ah:201:ALA:O	1:Ah:202:HIS:CD2	2.71	0.44
1:Al:199:SER:C	1:Al:201:ALA:H	2.25	0.44
1:Al:201:ALA:O	1:Al:202:HIS:CD2	2.71	0.44
1:Am:7:ASP:O	1:Am:8:GLY:C	2.59	0.44
1:Am:72:LEU:O	1:Am:75:CYS:SG	2.76	0.44
1:Am:146:ILE:O	1:Am:146:ILE:HG22	2.17	0.44
1:Am:181:LYS:O	1:Am:182:ALA:CB	2.66	0.44
1:An:22:VAL:HG12	1:An:23:ASP:N	2.33	0.44
1:An:201:ALA:O	1:An:202:HIS:CD2	2.71	0.44
1:BA:56:VAL:HG13	1:BA:193:GLY:O	2.17	0.44
1:BA:62:SER:O	1:BA:63:THR:CB	2.66	0.44
1:BA:110:GLY:H	1:BB:242:ASN:ND2	2.12	0.44
1:BA:199:SER:C	1:BA:201:ALA:H	2.25	0.44
1:BC:201:ALA:O	1:BC:202:HIS:CD2	2.71	0.44
1:BE:170:PHE:CD2	1:BE:222:ARG:NH1	2.85	0.44
1:BF:49:THR:HG22	1:BF:50:GLY:H	1.82	0.44
1:BH:22:VAL:HG12	1:BH:23:ASP:N	2.32	0.44
1:BH:101:PHE:CD2	1:BH:143:VAL:CG1	2.91	0.44
1:BI:201:ALA:O	1:BI:202:HIS:HD2	2.01	0.44
2:C0:116:ALA:N	3:DQ:119:LYS:NZ	2.66	0.44
2:C3:57:THR:HG22	2:C3:58:LEU:H	1.82	0.44
2:C3:125:CYS:SG	2:C3:160:HIS:HD2	2.40	0.44
2:C3:152:TYR:HB3	2:C3:197:LEU:HD22	2.00	0.44
2:C4:152:TYR:HB3	2:C4:197:LEU:HD22	2.00	0.44
2:C6:65:LYS:CB	3:DE:135:ARG:HH21	2.29	0.44
2:C6:152:TYR:OH	3:D6:60:PRO:HD3	2.17	0.44
2:C7:49:ASP:HA	2:C7:50:PRO:HD2	1.80	0.44
2:C7:116:ALA:N	3:Dm:119:LYS:NZ	2.66	0.44
2:C9:34:TYR:HA	2:C9:174:VAL:O	2.18	0.44
2:C9:152:TYR:OH	3:D9:60:PRO:HD3	2.17	0.44
2:CD:84:PRO:HD2	2:CD:186:LEU:CD2	2.48	0.44
2:CG:39:PRO:HB3	2:CG:176:PRO:HA	1.99	0.44
2:CG:83:LEU:HA	2:CG:84:PRO:HA	1.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:84:PRO:HD2	2:CG:186:LEU:CD2	2.48	0.44
2:CH:84:PRO:HD2	2:CH:186:LEU:CD2	2.48	0.44
2:CH:116:ALA:N	3:Ds:119:LYS:NZ	2.66	0.44
2:CI:116:ALA:N	3:DX:119:LYS:NZ	2.66	0.44
2:CI:209:VAL:O	2:CI:209:VAL:CG1	2.65	0.44
2:CJ:160:HIS:HE2	3:DJ:51:TYR:HE1	1.64	0.44
2:CL:39:PRO:HB3	2:CL:176:PRO:HA	1.99	0.44
2:CL:54:LEU:HD21	2:CL:97:VAL:HG11	1.99	0.44
2:CL:54:LEU:HB2	2:CL:220:ALA:HB3	1.99	0.44
2:CM:116:ALA:N	3:Di:119:LYS:NZ	2.66	0.44
2:CN:34:TYR:HA	2:CN:174:VAL:O	2.18	0.44
2:CN:78:ALA:HB1	2:CN:195:VAL:HG12	1.99	0.44
2:CO:34:TYR:HA	2:CO:174:VAL:O	2.18	0.44
2:CO:63:THR:CG2	3:DP:188:LEU:HD21	2.47	0.44
2:CO:84:PRO:HD2	2:CO:186:LEU:CD2	2.48	0.44
2:CP:57:THR:HG22	2:CP:58:LEU:H	1.82	0.44
2:CP:116:ALA:N	3:D1:119:LYS:NZ	2.66	0.44
2:CQ:54:LEU:HD21	2:CQ:97:VAL:HG11	1.99	0.44
2:CQ:84:PRO:HD2	2:CQ:186:LEU:CD2	2.48	0.44
2:CQ:153:GLN:NE2	3:DQ:55:SER:CB	2.80	0.44
2:CR:54:LEU:HB2	2:CR:220:ALA:HB3	1.99	0.44
2:CS:54:LEU:HB2	2:CS:220:ALA:HB3	1.99	0.44
2:CS:125:CYS:SG	2:CS:160:HIS:HD2	2.40	0.44
2:CS:157:VAL:HG23	3:DS:50:THR:HG21	1.99	0.44
2:CT:108:TRP:O	2:CT:218:ILE:HD12	2.17	0.44
2:CT:116:ALA:N	3:DK:119:LYS:NZ	2.66	0.44
2:CW:116:ALA:N	3:DJ:119:LYS:NZ	2.66	0.44
2:CW:125:CYS:SG	2:CW:160:HIS:HD2	2.40	0.44
2:CX:75:HIS:NE2	3:DX:59:LYS:HB3	2.31	0.44
2:CX:156:SER:HA	2:CX:160:HIS:CD2	2.52	0.44
2:CY:54:LEU:HD21	2:CY:97:VAL:HG11	1.99	0.44
2:CY:116:ALA:N	3:DZ:119:LYS:NZ	2.66	0.44
2:CZ:116:ALA:N	3:Dq:119:LYS:NZ	2.66	0.44
2:Ca:125:CYS:SG	2:Ca:160:HIS:HD2	2.40	0.44
2:Cb:116:ALA:N	3:DT:119:LYS:NZ	2.66	0.44
2:Cd:84:PRO:HD2	2:Cd:186:LEU:CD2	2.48	0.44
2:Cd:116:ALA:N	3:D4:119:LYS:NZ	2.66	0.44
2:Cd:157:VAL:HG23	3:Dd:50:THR:HG21	1.99	0.44
2:Cd:212:THR:HG23	3:D4:188:LEU:HD22	1.96	0.44
2:Ce:125:CYS:SG	2:Ce:160:HIS:HD2	2.40	0.44
2:Cf:42:ARG:HA	2:Cf:43:PRO:HD2	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cf:56:PRO:C	2:Cf:57:THR:O	2.59	0.44
2:Cf:152:TYR:HB2	2:Cf:197:LEU:HD22	1.98	0.44
2:Cf:153:GLN:NE2	3:Df:55:SER:CB	2.80	0.44
2:Ch:54:LEU:HD21	2:Ch:97:VAL:HG11	1.99	0.44
2:Ci:134:HIS:HB3	2:Ci:135:THR:H	1.46	0.44
2:Ci:157:VAL:HG23	3:Di:50:THR:HG21	1.99	0.44
2:Cj:135:THR:HG23	2:Cj:145:LEU:HD11	1.99	0.44
2:Cj:152:TYR:OH	3:Dj:60:PRO:HD3	2.17	0.44
2:Ck:57:THR:HG22	2:Ck:58:LEU:H	1.82	0.44
2:Ck:116:ALA:N	3:Da:119:LYS:NZ	2.66	0.44
2:Ck:157:VAL:HG23	3:Dk:50:THR:HG21	1.99	0.44
2:Cl:152:TYR:OH	3:Dl:60:PRO:HD3	2.17	0.44
2:Cm:57:THR:HG22	2:Cm:58:LEU:H	1.82	0.44
2:Co:34:TYR:HA	2:Co:174:VAL:O	2.18	0.44
2:Cq:25:ASN:O	2:Cq:26:SER:HB3	2.18	0.44
2:Cq:152:TYR:HB3	2:Cq:197:LEU:HD22	2.00	0.44
2:Cr:34:TYR:HA	2:Cr:174:VAL:O	2.18	0.44
2:Cs:56:PRO:C	2:Cs:57:THR:O	2.59	0.44
2:Cs:135:THR:HG23	2:Cs:145:LEU:HD11	1.99	0.44
2:Ct:125:CYS:SG	2:Ct:160:HIS:HD2	2.40	0.44
2:Cv:39:PRO:HB3	2:Cv:176:PRO:HA	1.99	0.44
2:Cv:65:LYS:CB	3:Dd:135:ARG:HH21	2.29	0.44
2:Cv:156:SER:HA	2:Cv:160:HIS:CD2	2.52	0.44
2:Cv:216:ALA:HA	2:Cv:217:PRO:HD3	1.78	0.44
2:Cw:34:TYR:HA	2:Cw:174:VAL:O	2.18	0.44
2:Cw:83:LEU:HA	2:Cw:84:PRO:HA	1.60	0.44
2:Cw:152:TYR:HB3	2:Cw:197:LEU:HD22	2.00	0.44
2:Cx:54:LEU:HB2	2:Cx:220:ALA:HB3	1.99	0.44
2:Cx:212:THR:HG23	3:Do:188:LEU:HD22	1.96	0.44
3:D1:8:VAL:CG1	3:D1:9:PRO:HD2	2.39	0.44
3:D3:134:THR:OG1	3:D3:137:GLU:HG3	2.17	0.44
3:D4:56:ILE:CG1	3:D4:74:PHE:CE1	2.98	0.44
3:D5:103:SER:HB3	3:D5:159:PRO:CA	2.35	0.44
3:D7:101:ARG:O	3:D7:101:ARG:HG2	2.17	0.44
3:D8:97:PHE:HB3	3:D8:218:HIS:O	2.17	0.44
3:D8:179:VAL:HG12	3:D8:181:GLY:N	2.33	0.44
3:DC:97:PHE:HB3	3:DC:218:HIS:O	2.17	0.44
3:DC:134:THR:OG1	3:DC:137:GLU:HG3	2.17	0.44
3:DD:160:TYR:CD1	3:DD:160:TYR:C	2.94	0.44
3:DD:175:THR:OG1	3:DD:178:ASN:ND2	2.51	0.44
3:DF:160:TYR:CD1	3:DF:160:TYR:C	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:79:SER:O	3:DL:81:SER:N	2.51	0.44
3:DL:97:PHE:CD1	3:DL:216:LEU:HD23	2.51	0.44
3:DM:19:PRO:HB3	4:FL:30:TYR:CD2	2.52	0.44
3:DN:7:SER:OG	3:DN:11:SER:HB3	2.17	0.44
3:DN:97:PHE:HB3	3:DN:218:HIS:O	2.17	0.44
3:DR:19:PRO:HB3	4:FQ:30:TYR:CD2	2.52	0.44
3:DR:97:PHE:HB3	3:DR:218:HIS:O	2.17	0.44
3:DR:103:SER:HB2	3:DR:159:PRO:HA	1.95	0.44
3:DS:179:VAL:HG12	3:DS:181:GLY:N	2.32	0.44
3:DT:43:PHE:O	3:DT:44:ILE:C	2.60	0.44
3:DY:19:PRO:HB3	4:FX:30:TYR:CD2	2.52	0.44
3:Db:7:SER:OG	3:Db:11:SER:HB3	2.17	0.44
3:Db:179:VAL:HG12	3:Db:181:GLY:N	2.32	0.44
3:Dd:175:THR:OG1	3:Dd:178:ASN:ND2	2.51	0.44
3:De:172:ALA:O	3:De:178:ASN:OD1	2.35	0.44
3:Df:97:PHE:HB3	3:Df:218:HIS:O	2.18	0.44
3:Dh:101:ARG:O	3:Dh:101:ARG:HG2	2.17	0.44
3:Di:43:PHE:O	3:Di:44:ILE:C	2.60	0.44
3:Dk:77:ASP:O	3:Dk:79:SER:N	2.50	0.44
3:Dn:101:ARG:O	3:Dn:101:ARG:HG2	2.17	0.44
3:Dp:97:PHE:HB3	3:Dp:218:HIS:O	2.17	0.44
3:Dq:198:VAL:HG23	3:Dq:199:ASN:H	1.82	0.44
3:Dr:77:ASP:O	3:Dr:79:SER:N	2.50	0.44
3:Dr:175:THR:OG1	3:Dr:178:ASN:ND2	2.51	0.44
3:EB:7:SER:OG	3:EB:11:SER:HB3	2.17	0.44
3:EB:175:THR:OG1	3:EB:178:ASN:ND2	2.51	0.44
3:EB:198:VAL:HG23	3:EB:199:ASN:H	1.82	0.44
3:ED:175:THR:OG1	3:ED:178:ASN:ND2	2.51	0.44
3:EE:175:THR:OG1	3:EE:178:ASN:ND2	2.51	0.44
4:Fl:16:GLY:O	4:Fl:18:SER:N	2.50	0.44
1:A0:62:SER:O	1:A0:63:THR:CB	2.66	0.44
1:A0:170:PHE:CD2	1:A0:222:ARG:NH1	2.85	0.44
1:A2:199:SER:C	1:A2:201:ALA:H	2.25	0.44
1:A2:201:ALA:O	1:A2:202:HIS:CD2	2.71	0.44
1:A4:181:LYS:O	1:A4:182:ALA:CB	2.66	0.44
1:A4:219:TYR:HD2	3:D5:39:ARG:HB2	1.79	0.44
1:A5:199:SER:C	1:A5:201:ALA:H	2.25	0.44
1:A6:22:VAL:HG12	1:A6:23:ASP:N	2.33	0.44
1:A6:107:PHE:HB2	1:A6:194:SER:OG	2.16	0.44
1:A7:72:LEU:O	1:A7:75:CYS:SG	2.76	0.44
1:A7:146:ILE:O	1:A7:146:ILE:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:170:PHE:CD2	1:A7:222:ARG:NH1	2.85	0.44
1:A7:201:ALA:O	1:A7:202:HIS:HD2	2.01	0.44
1:A8:72:LEU:O	1:A8:75:CYS:SG	2.76	0.44
1:AA:22:VAL:HG12	1:AA:23:ASP:N	2.33	0.44
1:AA:101:PHE:CD2	1:AA:143:VAL:HG11	2.44	0.44
1:AD:234:LYS:HA	1:AD:234:LYS:HD3	1.89	0.44
1:AE:181:LYS:O	1:AE:182:ALA:CB	2.66	0.44
1:AF:62:SER:O	1:AF:63:THR:CB	2.66	0.44
1:AF:174:TRP:HB2	2:CF:188:LEU:CD2	2.44	0.44
1:AG:7:ASP:O	1:AG:8:GLY:C	2.59	0.44
1:AH:52:PRO:HD3	1:AH:115:THR:O	2.17	0.44
1:AI:170:PHE:CD2	1:AI:222:ARG:NH1	2.85	0.44
1:AI:201:ALA:O	1:AI:202:HIS:HD2	2.01	0.44
1:AJ:43:LEU:N	1:AJ:43:LEU:CD2	2.74	0.44
1:AK:26:VAL:HG12	1:AK:27:HIS:N	2.32	0.44
1:AM:62:SER:O	1:AM:63:THR:CB	2.66	0.44
1:AM:183:THR:HA	1:AM:186:TRP:HB3	1.98	0.44
1:AN:199:SER:C	1:AN:201:ALA:H	2.25	0.44
1:AO:109:VAL:HG22	1:AO:191:HIS:HD2	1.82	0.44
1:AP:62:SER:O	1:AP:63:THR:CB	2.66	0.44
1:AR:22:VAL:HG12	1:AR:23:ASP:N	2.33	0.44
1:AR:101:PHE:CD2	1:AR:143:VAL:HG11	2.44	0.44
1:AR:146:ILE:HD13	1:AR:146:ILE:HG21	1.74	0.44
1:AV:40:VAL:HB	1:AV:68:TRP:CH2	2.53	0.44
1:AX:43:LEU:N	1:AX:43:LEU:CD2	2.74	0.44
1:AX:56:VAL:HG13	1:AX:193:GLY:O	2.17	0.44
1:AX:101:PHE:CD2	1:AX:143:VAL:HG11	2.44	0.44
1:AX:170:PHE:CD2	1:AX:222:ARG:NH1	2.85	0.44
1:AY:109:VAL:HG22	1:AY:191:HIS:HD2	1.82	0.44
1:Aa:49:THR:HG22	1:Aa:50:GLY:H	1.82	0.44
1:Aa:183:THR:HA	1:Aa:186:TRP:HB3	1.99	0.44
1:Ab:52:PRO:HD3	1:Ab:115:THR:O	2.17	0.44
1:Af:22:VAL:HG12	1:Af:23:ASP:N	2.32	0.44
1:Af:26:VAL:HG12	1:Af:27:HIS:N	2.32	0.44
1:Af:49:THR:HG22	1:Af:50:GLY:H	1.82	0.44
1:Ai:201:ALA:O	1:Ai:202:HIS:CD2	2.71	0.44
1:Ak:201:ALA:O	1:Ak:202:HIS:CD2	2.71	0.44
1:Al:22:VAL:HG12	1:Al:23:ASP:N	2.33	0.44
1:Am:22:VAL:HG12	1:Am:23:ASP:N	2.33	0.44
1:An:49:THR:HG22	1:An:50:GLY:H	1.82	0.44
1:An:146:ILE:HG22	1:An:146:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:181:LYS:O	1:Ao:182:ALA:CB	2.66	0.44
1:BA:49:THR:HG22	1:BA:50:GLY:H	1.82	0.44
1:BB:107:PHE:HB2	1:BB:194:SER:OG	2.17	0.44
1:BC:109:VAL:HG22	1:BC:191:HIS:HD2	1.82	0.44
1:BF:22:VAL:HG12	1:BF:23:ASP:N	2.33	0.44
1:BG:26:VAL:HG12	1:BG:27:HIS:N	2.32	0.44
1:BG:62:SER:O	1:BG:63:THR:CB	2.66	0.44
1:BG:107:PHE:HB2	1:BG:194:SER:OG	2.17	0.44
1:BG:201:ALA:O	1:BG:202:HIS:HD2	2.01	0.44
1:BI:201:ALA:O	1:BI:202:HIS:CD2	2.71	0.44
2:C0:54:LEU:HB2	2:C0:220:ALA:HB3	1.99	0.44
2:C3:135:THR:HG23	2:C3:145:LEU:HD11	1.99	0.44
2:C4:34:TYR:HA	2:C4:174:VAL:O	2.18	0.44
2:C4:57:THR:O	2:C4:58:LEU:CB	2.66	0.44
2:C4:57:THR:HG22	2:C4:58:LEU:H	1.82	0.44
2:C5:54:LEU:HD21	2:C5:97:VAL:HG11	1.99	0.44
2:C5:116:ALA:N	3:DG:119:LYS:NZ	2.66	0.44
2:C5:160:HIS:HE2	3:D5:51:TYR:HE1	1.64	0.44
2:C6:153:GLN:NE2	3:D6:55:SER:CB	2.80	0.44
2:C7:180:PRO:HD2	2:C7:189:HIS:HE1	1.76	0.44
2:C8:57:THR:O	2:C8:58:LEU:CB	2.66	0.44
2:C9:152:TYR:CE1	3:D9:60:PRO:CG	3.01	0.44
2:C9:153:GLN:NE2	3:D9:55:SER:CB	2.80	0.44
2:CC:57:THR:O	2:CC:58:LEU:CB	2.66	0.44
2:CC:57:THR:HG22	2:CC:58:LEU:H	1.82	0.44
2:CC:65:LYS:CB	3:Dn:135:ARG:HH21	2.29	0.44
2:CC:152:TYR:OH	3:DC:60:PRO:HD3	2.17	0.44
2:CD:108:TRP:O	2:CD:218:ILE:HD12	2.17	0.44
2:CD:134:HIS:HB3	2:CD:135:THR:H	1.46	0.44
2:CD:156:SER:HA	2:CD:160:HIS:CD2	2.52	0.44
2:CE:129:VAL:HA	2:CE:130:PRO:HD3	1.78	0.44
2:CF:63:THR:CG2	3:D6:188:LEU:HD21	2.47	0.44
2:CG:152:TYR:HB3	2:CG:197:LEU:HD22	2.00	0.44
2:CJ:75:HIS:NE2	3:DJ:59:LYS:HB3	2.30	0.44
2:CK:39:PRO:HB3	2:CK:176:PRO:HA	1.99	0.44
2:CK:125:CYS:SG	2:CK:160:HIS:HD2	2.40	0.44
2:CO:116:ALA:N	3:DP:119:LYS:NZ	2.66	0.44
2:CQ:39:PRO:HB3	2:CQ:176:PRO:HA	1.99	0.44
2:CQ:63:THR:CG2	3:Dp:188:LEU:HD21	2.47	0.44
2:CQ:152:TYR:HB3	2:CQ:197:LEU:HD22	2.00	0.44
2:CR:69:TRP:CZ3	2:CR:124:LEU:HD11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CS:39:PRO:HB3	2:CS:176:PRO:HA	1.99	0.44
2:CU:152:TYR:HB3	2:CU:197:LEU:HD22	2.00	0.44
2:CV:34:TYR:HA	2:CV:174:VAL:O	2.18	0.44
2:CV:153:GLN:NE2	3:DV:55:SER:CB	2.80	0.44
2:CV:156:SER:HA	2:CV:160:HIS:CD2	2.52	0.44
2:CW:78:ALA:HB1	2:CW:195:VAL:HG12	1.99	0.44
2:CW:156:SER:HA	2:CW:160:HIS:CD2	2.52	0.44
2:CX:152:TYR:HB3	2:CX:197:LEU:HD22	2.00	0.44
2:Ca:152:TYR:CE1	3:Da:60:PRO:CG	3.01	0.44
2:Cc:39:PRO:HB3	2:Cc:176:PRO:HA	1.99	0.44
2:Cc:54:LEU:HB2	2:Cc:220:ALA:HB3	1.99	0.44
2:Cc:84:PRO:HD2	2:Cc:186:LEU:CD2	2.48	0.44
2:Cd:56:PRO:C	2:Cd:57:THR:O	2.59	0.44
2:Cd:83:LEU:HA	2:Cd:84:PRO:HA	1.60	0.44
2:Ce:117:SER:HB3	3:DC:192:THR:CG2	2.48	0.44
2:Cf:160:HIS:HE2	3:Df:51:TYR:HE1	1.64	0.44
2:Cg:57:THR:O	2:Cg:58:LEU:CB	2.66	0.44
2:Ci:34:TYR:HA	2:Ci:174:VAL:O	2.18	0.44
2:Ci:153:GLN:NE2	3:Di:55:SER:CB	2.80	0.44
2:Ci:160:HIS:HE2	3:Di:51:TYR:HE1	1.64	0.44
2:Cn:39:PRO:HB3	2:Cn:176:PRO:HA	1.99	0.44
2:Cn:152:TYR:OH	3:Dn:60:PRO:HD3	2.17	0.44
2:Cn:156:SER:HA	2:Cn:160:HIS:CD2	2.52	0.44
2:Co:25:ASN:O	2:Co:26:SER:HB3	2.18	0.44
2:Cp:34:TYR:HA	2:Cp:174:VAL:O	2.18	0.44
2:Cp:57:THR:O	2:Cp:58:LEU:CB	2.66	0.44
2:Cq:54:LEU:HD21	2:Cq:97:VAL:HG11	1.99	0.44
2:Cq:125:CYS:SG	2:Cq:160:HIS:HD2	2.40	0.44
2:Cq:135:THR:HG23	2:Cq:145:LEU:HD11	1.98	0.44
2:Cs:23:ILE:HD12	2:Cs:23:ILE:H	1.80	0.44
2:Ct:78:ALA:HB1	2:Ct:195:VAL:HG12	1.99	0.44
2:Cv:78:ALA:HB1	2:Cv:195:VAL:HG12	1.99	0.44
2:Cv:152:TYR:CE1	3:EC:60:PRO:CG	3.01	0.44
2:Cw:78:ALA:HB1	2:Cw:195:VAL:HG12	1.99	0.44
2:Cw:152:TYR:OH	3:ED:60:PRO:HD3	2.17	0.44
2:Cw:209:VAL:O	2:Cw:209:VAL:CG1	2.65	0.44
2:Cx:78:ALA:HB1	2:Cx:195:VAL:HG12	1.99	0.44
3:D5:101:ARG:HG2	3:D5:101:ARG:O	2.17	0.44
3:D6:101:ARG:HG2	3:D6:101:ARG:O	2.17	0.44
3:D7:179:VAL:HG12	3:D7:181:GLY:N	2.33	0.44
3:D9:175:THR:OG1	3:D9:178:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:103:SER:HB2	3:DA:159:PRO:HA	1.95	0.44
3:DA:179:VAL:HG12	3:DA:181:GLY:N	2.32	0.44
3:DB:121:LEU:C	3:DB:121:LEU:CD2	2.89	0.44
3:DC:19:PRO:HB3	4:FB:30:TYR:CD2	2.52	0.44
3:DD:134:THR:OG1	3:DD:137:GLU:HG3	2.17	0.44
3:DG:7:SER:OG	3:DG:11:SER:HB3	2.17	0.44
3:DG:175:THR:OG1	3:DG:178:ASN:ND2	2.51	0.44
3:DH:175:THR:OG1	3:DH:178:ASN:ND2	2.51	0.44
3:DN:175:THR:OG1	3:DN:178:ASN:ND2	2.51	0.44
3:DO:79:SER:O	3:DO:81:SER:N	2.51	0.44
3:DO:179:VAL:HG12	3:DO:181:GLY:N	2.32	0.44
3:DU:175:THR:OG1	3:DU:178:ASN:ND2	2.51	0.44
3:DY:7:SER:OG	3:DY:11:SER:HB3	2.17	0.44
3:DY:160:TYR:CD1	3:DY:160:TYR:C	2.94	0.44
3:Db:97:PHE:HB3	3:Db:218:HIS:O	2.17	0.44
3:Dc:198:VAL:HG23	3:Dc:199:ASN:H	1.82	0.44
3:Dd:97:PHE:HB3	3:Dd:218:HIS:O	2.17	0.44
3:Df:77:ASP:O	3:Df:79:SER:N	2.50	0.44
3:Dh:8:VAL:CG1	3:Dh:9:PRO:HD2	2.39	0.44
3:Di:101:ARG:HG2	3:Di:101:ARG:O	2.17	0.44
3:Dm:19:PRO:HB3	4:Fl:30:TYR:CD2	2.52	0.44
3:Dn:103:SER:HB2	3:Dn:159:PRO:HA	1.95	0.44
3:Do:97:PHE:HB3	3:Do:218:HIS:O	2.17	0.44
3:Dq:134:THR:OG1	3:Dq:137:GLU:HG3	2.17	0.44
3:Dr:179:VAL:HG12	3:Dr:181:GLY:N	2.33	0.44
3:Dr:198:VAL:HG23	3:Dr:199:ASN:H	1.82	0.44
3:EB:97:PHE:HB3	3:EB:218:HIS:O	2.17	0.44
4:Fl:32:ASN:HB3	4:Fl:33:SER:H	1.58	0.44
1:A1:170:PHE:CD2	1:A1:222:ARG:NH1	2.85	0.44
1:A2:43:LEU:HD23	1:A2:43:LEU:H	1.81	0.44
1:A2:181:LYS:O	1:A2:182:ALA:CB	2.66	0.44
1:A3:72:LEU:O	1:A3:75:CYS:SG	2.76	0.44
1:A5:55:HIS:O	1:A5:194:SER:HB2	2.18	0.44
1:A5:201:ALA:O	1:A5:202:HIS:HD2	2.01	0.44
1:A6:7:ASP:O	1:A6:8:GLY:C	2.59	0.44
1:A6:201:ALA:O	1:A6:202:HIS:CD2	2.71	0.44
1:A7:22:VAL:HG12	1:A7:23:ASP:N	2.33	0.44
1:A8:49:THR:HG22	1:A8:50:GLY:H	1.82	0.44
1:A8:62:SER:HB2	1:A8:73:ASN:ND2	2.27	0.44
1:AA:121:LEU:HD21	1:AB:206:GLY:CA	2.47	0.44
1:AB:62:SER:O	1:AB:63:THR:CB	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:181:LYS:O	1:AD:182:ALA:CB	2.66	0.44
1:AE:40:VAL:HB	1:AE:68:TRP:CH2	2.53	0.44
1:AG:181:LYS:O	1:AG:182:ALA:CB	2.66	0.44
1:AI:49:THR:HG22	1:AI:50:GLY:H	1.82	0.44
1:AI:201:ALA:O	1:AI:202:HIS:CD2	2.71	0.44
1:AJ:181:LYS:O	1:AJ:182:ALA:CB	2.66	0.44
1:AJ:199:SER:C	1:AJ:201:ALA:H	2.25	0.44
1:AL:62:SER:O	1:AL:63:THR:CB	2.66	0.44
1:AM:7:ASP:O	1:AM:8:GLY:C	2.59	0.44
1:AP:49:THR:HG22	1:AP:50:GLY:H	1.82	0.44
1:AP:206:GLY:CA	1:AS:121:LEU:HD21	2.47	0.44
1:AQ:56:VAL:HG13	1:AQ:193:GLY:O	2.17	0.44
1:AT:38:PHE:CD1	1:AX:137:GLY:HA2	2.49	0.44
1:AT:101:PHE:CD2	1:AT:143:VAL:CG1	2.91	0.44
1:AU:55:HIS:O	1:AU:194:SER:HB2	2.18	0.44
1:AU:201:ALA:O	1:AU:202:HIS:HD2	2.01	0.44
1:AV:201:ALA:O	1:AV:202:HIS:HD2	2.01	0.44
1:AW:22:VAL:HG12	1:AW:23:ASP:N	2.32	0.44
1:AX:26:VAL:HG12	1:AX:27:HIS:N	2.32	0.44
1:AX:62:SER:O	1:AX:63:THR:CB	2.66	0.44
1:Ac:110:GLY:H	1:Ad:242:ASN:ND2	2.12	0.44
1:Ad:201:ALA:O	1:Ad:202:HIS:CD2	2.71	0.44
1:Ae:170:PHE:CD2	1:Ae:222:ARG:NH1	2.85	0.44
1:Ae:181:LYS:O	1:Ae:182:ALA:CB	2.66	0.44
1:Ae:201:ALA:O	1:Ae:202:HIS:CD2	2.71	0.44
1:Ah:55:HIS:O	1:Ah:194:SER:HB2	2.18	0.44
1:Ah:181:LYS:O	1:Ah:182:ALA:CB	2.66	0.44
1:Al:52:PRO:HD3	1:Al:115:THR:O	2.17	0.44
1:Am:55:HIS:O	1:Am:194:SER:HB2	2.18	0.44
1:Am:115:THR:HG23	1:Am:133:LEU:N	2.25	0.44
1:Am:201:ALA:O	1:Am:202:HIS:HD2	2.01	0.44
1:An:62:SER:O	1:An:63:THR:CB	2.66	0.44
1:Ao:170:PHE:CD2	1:Ao:222:ARG:NH1	2.85	0.44
1:BA:224:ILE:HA	1:BA:225:PRO:HD2	1.86	0.44
1:BB:26:VAL:HG12	1:BB:27:HIS:N	2.32	0.44
1:BB:170:PHE:CD2	1:BB:222:ARG:NH1	2.85	0.44
1:BB:181:LYS:O	1:BB:182:ALA:CB	2.66	0.44
1:BB:201:ALA:O	1:BB:202:HIS:HD2	2.01	0.44
1:BC:49:THR:HG22	1:BC:50:GLY:H	1.82	0.44
1:BE:55:HIS:O	1:BE:194:SER:HB2	2.18	0.44
1:BF:146:ILE:HG22	1:BF:146:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:199:SER:C	1:BF:201:ALA:H	2.25	0.44
1:BG:121:LEU:HD21	1:BH:206:GLY:CA	2.47	0.44
1:BH:181:LYS:O	1:BH:182:ALA:CB	2.66	0.44
2:C0:25:ASN:O	2:C0:26:SER:HB3	2.18	0.44
2:C0:34:TYR:HA	2:C0:174:VAL:O	2.18	0.44
2:C0:57:THR:HG22	2:C0:58:LEU:H	1.82	0.44
2:C0:157:VAL:HG23	3:D0:50:THR:HG21	1.99	0.44
2:C1:157:VAL:HG23	3:D1:50:THR:HG21	1.99	0.44
2:C2:57:THR:O	2:C2:58:LEU:CB	2.66	0.44
2:C2:152:TYR:CE1	3:D2:60:PRO:CG	3.01	0.44
2:C2:156:SER:HA	2:C2:160:HIS:CD2	2.52	0.44
2:C4:56:PRO:C	2:C4:57:THR:O	2.59	0.44
2:C4:152:TYR:CE1	3:D4:60:PRO:CG	3.01	0.44
2:C5:125:CYS:SG	2:C5:160:HIS:HD2	2.41	0.44
2:C5:152:TYR:HB3	2:C5:197:LEU:HD22	2.00	0.44
2:C6:54:LEU:HD21	2:C6:97:VAL:HG11	1.99	0.44
2:C6:57:THR:HG22	2:C6:58:LEU:H	1.82	0.44
2:C6:160:HIS:HE2	3:D6:51:TYR:HE1	1.64	0.44
2:C7:34:TYR:HA	2:C7:174:VAL:O	2.18	0.44
2:C8:34:TYR:HA	2:C8:174:VAL:O	2.18	0.44
2:CA:152:TYR:HB3	2:CA:197:LEU:HD22	2.00	0.44
2:CB:84:PRO:HD2	2:CB:186:LEU:CD2	2.48	0.44
2:CB:153:GLN:NE2	3:DB:55:SER:CB	2.80	0.44
2:CC:34:TYR:HA	2:CC:174:VAL:O	2.18	0.44
2:CD:58:LEU:HB3	2:CD:59:SER:H	1.65	0.44
2:CE:116:ALA:N	3:DF:119:LYS:NZ	2.66	0.44
2:CE:160:HIS:HE2	3:DE:51:TYR:HE1	1.64	0.44
2:CF:34:TYR:HA	2:CF:174:VAL:O	2.18	0.44
2:CF:157:VAL:HG23	3:DF:50:THR:HG21	1.99	0.44
2:CG:135:THR:HG23	2:CG:145:LEU:HD11	1.98	0.44
2:CG:153:GLN:NE2	3:DG:55:SER:CB	2.80	0.44
2:CJ:39:PRO:HB3	2:CJ:176:PRO:HA	1.99	0.44
2:CK:78:ALA:HB1	2:CK:195:VAL:HG12	1.99	0.44
2:CL:34:TYR:HA	2:CL:174:VAL:O	2.18	0.44
2:CM:57:THR:O	2:CM:58:LEU:CB	2.66	0.44
2:CN:22:THR:O	2:CN:22:THR:HG23	2.18	0.44
2:CN:39:PRO:HB3	2:CN:176:PRO:HA	1.99	0.44
2:CN:116:ALA:N	3:D2:119:LYS:NZ	2.66	0.44
2:CO:156:SER:HA	2:CO:160:HIS:CD2	2.52	0.44
2:CP:54:LEU:HB2	2:CP:220:ALA:HB3	1.99	0.44
2:CQ:54:LEU:HB2	2:CQ:220:ALA:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CQ:115:ASN:HD22	3:Dp:190:ALA:C	2.17	0.44
2:CR:152:TYR:HB3	2:CR:197:LEU:HD22	2.00	0.44
2:CV:23:ILE:HD12	2:CV:23:ILE:H	1.80	0.44
2:CV:152:TYR:OH	3:DV:60:PRO:HD3	2.17	0.44
2:CW:157:VAL:HG23	3:DW:50:THR:HG21	1.99	0.44
2:CX:54:LEU:HD21	2:CX:97:VAL:HG11	1.99	0.44
2:CY:152:TYR:OH	3:DY:60:PRO:HD3	2.17	0.44
2:CY:157:VAL:HG23	3:DY:50:THR:HG21	1.99	0.44
2:CZ:152:TYR:HB3	2:CZ:197:LEU:HD22	2.00	0.44
2:Ca:75:HIS:HA	2:Ca:198:ILE:O	2.17	0.44
2:Ca:115:ASN:HD22	3:DL:190:ALA:C	2.17	0.44
2:Ca:157:VAL:HG23	3:Da:50:THR:HG21	1.99	0.44
2:Cb:54:LEU:HD21	2:Cb:97:VAL:HG11	1.99	0.44
2:Cc:25:ASN:O	2:Cc:26:SER:HB3	2.18	0.44
2:Cc:78:ALA:HB1	2:Cc:195:VAL:HG12	1.99	0.44
2:Cc:54:LEU:HD21	2:Cc:97:VAL:HG11	1.99	0.44
2:Cg:25:ASN:O	2:Cg:26:SER:HB3	2.18	0.44
2:Ch:39:PRO:HB3	2:Ch:176:PRO:HA	1.99	0.44
2:Ch:152:TYR:OH	3:Dh:60:PRO:HD3	2.17	0.44
2:Ci:63:THR:CG2	3:Dj:188:LEU:HD21	2.47	0.44
2:Ci:152:TYR:CE1	3:Di:60:PRO:CG	3.01	0.44
2:Cj:22:THR:HG23	2:Cj:22:THR:O	2.18	0.44
2:Cj:84:PRO:HD2	2:Cj:186:LEU:CD2	2.48	0.44
2:Cl:22:THR:HG23	2:Cl:22:THR:O	2.18	0.44
2:Cm:13:ARG:HA	2:Cm:13:ARG:HD3	1.72	0.44
2:Cn:57:THR:O	2:Cn:58:LEU:CB	2.66	0.44
2:Co:23:ILE:HD12	2:Co:23:ILE:H	1.80	0.44
2:Co:160:HIS:HE2	3:Do:51:TYR:HE1	1.64	0.44
2:Cq:116:ALA:N	3:DY:119:LYS:NZ	2.66	0.44
2:Cq:153:GLN:NE2	3:Dq:55:SER:CB	2.80	0.44
2:Cr:36:TYR:CE2	2:Cr:130:PRO:CG	2.98	0.44
2:Cr:56:PRO:C	2:Cr:57:THR:O	2.58	0.44
2:Cr:57:THR:O	2:Cr:58:LEU:CB	2.66	0.44
2:Cs:69:TRP:CZ3	2:Cs:124:LEU:HD11	2.52	0.44
2:Cs:116:ALA:N	3:EA:119:LYS:NZ	2.66	0.44
2:Cs:125:CYS:SG	2:Cs:160:HIS:HD2	2.40	0.44
2:Ct:25:ASN:O	2:Ct:26:SER:HB3	2.18	0.44
2:Ct:63:THR:CG2	3:DH:188:LEU:HD21	2.47	0.44
2:Ct:152:TYR:HB3	2:Ct:197:LEU:HD22	2.00	0.44
2:Cu:69:TRP:CZ3	2:Cu:124:LEU:HD11	2.52	0.44
2:Cw:63:THR:CG2	3:DS:188:LEU:HD21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cx:42:ARG:HA	2:Cx:43:PRO:HD2	1.64	0.44
3:D1:134:THR:OG1	3:D1:137:GLU:HG3	2.17	0.44
3:D2:175:THR:OG1	3:D2:178:ASN:ND2	2.51	0.44
3:D4:97:PHE:HB3	3:D4:218:HIS:O	2.17	0.44
3:D6:134:THR:OG1	3:D6:137:GLU:HG3	2.17	0.44
3:DA:160:TYR:CD1	3:DA:160:TYR:C	2.94	0.44
3:DE:101:ARG:O	3:DE:101:ARG:HG2	2.17	0.44
3:DE:103:SER:HB2	3:DE:159:PRO:HA	1.95	0.44
3:DF:19:PRO:HB3	4:FJ:30:TYR:CD2	2.52	0.44
3:DH:8:VAL:CG1	3:DH:9:PRO:HD2	2.39	0.44
3:DH:97:PHE:HB3	3:DH:218:HIS:O	2.17	0.44
3:DH:179:VAL:HG12	3:DH:181:GLY:N	2.32	0.44
3:DI:175:THR:OG1	3:DI:178:ASN:ND2	2.51	0.44
3:DM:175:THR:OG1	3:DM:178:ASN:ND2	2.51	0.44
3:DQ:179:VAL:HG12	3:DQ:181:GLY:N	2.33	0.44
3:DR:175:THR:OG1	3:DR:178:ASN:ND2	2.51	0.44
3:DU:134:THR:OG1	3:DU:137:GLU:HG3	2.17	0.44
3:DW:97:PHE:HB3	3:DW:218:HIS:O	2.17	0.44
3:DZ:7:SER:OG	3:DZ:11:SER:HB3	2.17	0.44
3:Db:121:LEU:C	3:Db:121:LEU:CD2	2.89	0.44
3:Dk:97:PHE:HB3	3:Dk:218:HIS:O	2.17	0.44
3:DI:175:THR:OG1	3:DI:178:ASN:ND2	2.51	0.44
3:Dm:160:TYR:CD1	3:Dm:160:TYR:C	2.94	0.44
3:Do:19:PRO:HB3	4:Fs:30:TYR:CD2	2.52	0.44
3:Do:198:VAL:HG23	3:Do:199:ASN:H	1.82	0.44
3:Dq:7:SER:OG	3:Dq:11:SER:HB3	2.17	0.44
3:Dq:19:PRO:HB3	4:Fp:30:TYR:CD2	2.52	0.44
3:EA:75:GLN:NE2	3:EA:184:GLN:OE1	2.49	0.44
3:EA:97:PHE:HB3	3:EA:218:HIS:O	2.17	0.44
3:EC:7:SER:OG	3:EC:11:SER:HB3	2.17	0.44
3:EC:175:THR:OG1	3:EC:178:ASN:ND2	2.51	0.44
3:EE:97:PHE:HB3	3:EE:218:HIS:O	2.17	0.44
3:EE:172:ALA:O	3:EE:178:ASN:OD1	2.34	0.44
1:A0:62:SER:HB2	1:A0:73:ASN:ND2	2.27	0.43
1:A0:181:LYS:O	1:A0:182:ALA:CB	2.66	0.43
1:A0:201:ALA:O	1:A0:202:HIS:CD2	2.71	0.43
1:A1:181:LYS:O	1:A1:182:ALA:CB	2.66	0.43
1:A2:139:SER:HA	1:A2:140:PRO:HD3	1.62	0.43
1:A4:121:LEU:HD21	1:A5:206:GLY:CA	2.47	0.43
1:A5:72:LEU:O	1:A5:75:CYS:SG	2.76	0.43
1:A6:49:THR:HG22	1:A6:50:GLY:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:49:THR:HG22	1:A7:50:GLY:H	1.82	0.43
1:A8:146:ILE:HG22	1:A8:146:ILE:O	2.18	0.43
1:A9:43:LEU:N	1:A9:43:LEU:CD2	2.74	0.43
1:A9:201:ALA:O	1:A9:202:HIS:CD2	2.71	0.43
1:AB:143:VAL:H	3:DC:14:PHE:CB	2.28	0.43
1:AB:181:LYS:O	1:AB:182:ALA:CB	2.66	0.43
1:AC:52:PRO:HD3	1:AC:115:THR:O	2.17	0.43
1:AC:101:PHE:CD2	1:AC:143:VAL:CG1	2.91	0.43
1:AC:170:PHE:CD2	1:AC:222:ARG:NH1	2.85	0.43
1:AC:199:SER:C	1:AC:201:ALA:H	2.25	0.43
1:AE:146:ILE:HG22	1:AE:146:ILE:O	2.17	0.43
1:AE:201:ALA:O	1:AE:202:HIS:CD2	2.71	0.43
1:AF:109:VAL:HG22	1:AF:191:HIS:HD2	1.82	0.43
1:AF:137:GLY:HA2	1:AG:38:PHE:CD1	2.48	0.43
1:AF:170:PHE:CD2	1:AF:222:ARG:NH1	2.85	0.43
1:AG:55:HIS:O	1:AG:194:SER:HB2	2.17	0.43
1:AH:199:SER:C	1:AH:201:ALA:H	2.25	0.43
1:AI:181:LYS:O	1:AI:182:ALA:CB	2.66	0.43
1:AJ:22:VAL:HG12	1:AJ:23:ASP:N	2.33	0.43
1:AJ:26:VAL:HG12	1:AJ:27:HIS:N	2.32	0.43
1:AL:52:PRO:HD3	1:AL:115:THR:O	2.17	0.43
1:AN:72:LEU:O	1:AN:75:CYS:SG	2.76	0.43
1:AN:143:VAL:H	3:DO:14:PHE:CB	2.28	0.43
1:AN:201:ALA:O	1:AN:202:HIS:CD2	2.71	0.43
1:AO:72:LEU:O	1:AO:75:CYS:SG	2.76	0.43
1:AQ:43:LEU:N	1:AQ:43:LEU:CD2	2.74	0.43
1:AQ:146:ILE:HD13	1:AQ:146:ILE:HG21	1.74	0.43
1:AQ:199:SER:C	1:AQ:201:ALA:H	2.25	0.43
1:AS:201:ALA:O	1:AS:202:HIS:HD2	2.01	0.43
1:AT:43:LEU:HD23	1:AT:43:LEU:H	1.81	0.43
1:AT:55:HIS:O	1:AT:194:SER:HB2	2.17	0.43
1:AT:72:LEU:O	1:AT:75:CYS:SG	2.76	0.43
1:AT:224:ILE:HA	1:AT:225:PRO:HD2	1.86	0.43
1:AU:22:VAL:HG12	1:AU:23:ASP:N	2.33	0.43
1:AW:52:PRO:HD3	1:AW:115:THR:O	2.17	0.43
1:AW:55:HIS:O	1:AW:194:SER:HB2	2.18	0.43
1:AX:201:ALA:O	1:AX:202:HIS:CD2	2.71	0.43
1:AY:181:LYS:O	1:AY:182:ALA:CB	2.66	0.43
1:AZ:234:LYS:HA	1:AZ:234:LYS:HD3	1.89	0.43
1:Ab:7:ASP:O	1:Ab:8:GLY:C	2.59	0.43
1:Ab:72:LEU:O	1:Ab:75:CYS:SG	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ac:181:LYS:O	1:Ac:182:ALA:CB	2.66	0.43
1:Ad:40:VAL:HB	1:Ad:68:TRP:CH2	2.53	0.43
1:Ad:109:VAL:HG22	1:Ad:191:HIS:HD2	1.82	0.43
1:Ad:201:ALA:O	1:Ad:202:HIS:HD2	2.01	0.43
1:Ae:146:ILE:HG21	1:Ae:146:ILE:HD13	1.74	0.43
1:Af:55:HIS:O	1:Af:194:SER:HB2	2.18	0.43
1:Ag:146:ILE:HG22	1:Ag:146:ILE:O	2.17	0.43
1:Ag:201:ALA:O	1:Ag:202:HIS:CD2	2.71	0.43
1:Ai:22:VAL:HG12	1:Ai:23:ASP:N	2.33	0.43
1:Ai:72:LEU:O	1:Ai:75:CYS:SG	2.76	0.43
1:Aj:40:VAL:HB	1:Aj:68:TRP:CH2	2.53	0.43
1:Aj:45:LEU:HB2	1:Aj:202:HIS:HA	1.98	0.43
1:Ak:40:VAL:HB	1:Ak:68:TRP:CH2	2.53	0.43
1:Ak:87:GLN:O	1:Ak:88:PHE:CB	2.62	0.43
1:An:201:ALA:O	1:An:202:HIS:HD2	2.01	0.43
1:BB:199:SER:C	1:BB:201:ALA:H	2.25	0.43
1:BE:40:VAL:HB	1:BE:68:TRP:CH2	2.53	0.43
1:BE:62:SER:HB2	1:BE:73:ASN:ND2	2.27	0.43
1:BF:219:TYR:HD2	3:EB:39:ARG:HB2	1.79	0.43
1:BH:201:ALA:O	1:BH:202:HIS:CD2	2.71	0.43
1:BI:181:LYS:O	1:BI:182:ALA:CB	2.66	0.43
2:C0:39:PRO:HB3	2:C0:176:PRO:HA	1.99	0.43
2:C0:160:HIS:HE2	3:D0:51:TYR:HE1	1.64	0.43
2:C1:65:LYS:CB	3:DO:135:ARG:HH21	2.29	0.43
2:C2:25:ASN:O	2:C2:26:SER:HB3	2.18	0.43
2:C2:125:CYS:SG	2:C2:160:HIS:HD2	2.40	0.43
2:C3:22:THR:HG23	2:C3:22:THR:O	2.18	0.43
2:C3:153:GLN:NE2	3:D3:55:SER:CB	2.80	0.43
2:C5:23:ILE:HD12	2:C5:23:ILE:H	1.80	0.43
2:C5:34:TYR:HA	2:C5:174:VAL:O	2.18	0.43
2:C5:65:LYS:CB	3:DG:135:ARG:HH21	2.29	0.43
2:C5:152:TYR:CE1	3:D5:60:PRO:CG	3.01	0.43
2:C6:152:TYR:CE1	3:D6:60:PRO:CG	3.01	0.43
2:C7:207:GLN:HB3	3:Dm:196:ILE:HG21	2.00	0.43
2:C8:152:TYR:OH	3:D8:60:PRO:HD3	2.17	0.43
2:C8:157:VAL:HG23	3:D8:50:THR:HG21	1.99	0.43
2:CA:34:TYR:HA	2:CA:174:VAL:O	2.18	0.43
2:CB:34:TYR:HA	2:CB:174:VAL:O	2.18	0.43
2:CC:115:ASN:HD22	3:Dn:190:ALA:C	2.17	0.43
2:CC:116:ALA:N	3:Dn:119:LYS:NZ	2.66	0.43
2:CC:152:TYR:CE1	3:DC:60:PRO:CG	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:13:ARG:HA	2:CD:13:ARG:HD3	1.72	0.43
2:CD:39:PRO:HB3	2:CD:176:PRO:HA	1.99	0.43
2:CD:69:TRP:CZ3	2:CD:124:LEU:HD11	2.52	0.43
2:CD:152:TYR:CE1	3:DD:60:PRO:CG	3.01	0.43
2:CG:54:LEU:HB2	2:CG:220:ALA:HB3	2.00	0.43
2:CH:23:ILE:HD12	2:CH:23:ILE:H	1.80	0.43
2:CI:73:GLN:HA	2:CI:73:GLN:NE2	2.17	0.43
2:CK:25:ASN:O	2:CK:26:SER:HB3	2.18	0.43
2:CK:54:LEU:HD21	2:CK:97:VAL:HG11	1.99	0.43
2:CK:152:TYR:CE1	3:DK:60:PRO:CG	3.01	0.43
2:CL:152:TYR:HB3	2:CL:197:LEU:HD22	2.00	0.43
2:CN:25:ASN:O	2:CN:26:SER:HB3	2.18	0.43
2:CO:152:TYR:OH	3:DO:60:PRO:HD3	2.17	0.43
2:CP:152:TYR:OH	3:DP:60:PRO:HD3	2.17	0.43
2:CQ:22:THR:O	2:CQ:22:THR:HG23	2.18	0.43
2:CR:54:LEU:HD21	2:CR:97:VAL:HG11	1.99	0.43
2:CR:207:GLN:HB3	3:EE:196:ILE:HG21	2.00	0.43
2:CS:117:SER:HB3	3:Dc:192:THR:CG2	2.47	0.43
2:CU:152:TYR:CE1	3:DU:60:PRO:CG	3.01	0.43
2:CV:54:LEU:HB2	2:CV:220:ALA:HB3	1.99	0.43
2:CV:58:LEU:HB3	2:CV:59:SER:H	1.65	0.43
2:CX:25:ASN:O	2:CX:26:SER:HB3	2.18	0.43
2:CY:34:TYR:HA	2:CY:174:VAL:O	2.18	0.43
2:CY:57:THR:HG22	2:CY:58:LEU:H	1.82	0.43
2:CY:216:ALA:HA	2:CY:217:PRO:HD3	1.78	0.43
2:CZ:34:TYR:HA	2:CZ:174:VAL:O	2.18	0.43
2:Ca:69:TRP:CZ3	2:Ca:124:LEU:HD11	2.52	0.43
2:Ca:84:PRO:HD2	2:Ca:186:LEU:CD2	2.48	0.43
2:Cb:57:THR:HG22	2:Cb:58:LEU:H	1.82	0.43
2:Cb:117:SER:HB3	3:DT:192:THR:CG2	2.48	0.43
2:Cc:34:TYR:HA	2:Cc:174:VAL:O	2.18	0.43
2:Cc:69:TRP:CZ3	2:Cc:124:LEU:HD11	2.52	0.43
2:Cc:125:CYS:SG	2:Cc:160:HIS:HD2	2.40	0.43
2:Cc:152:TYR:CE1	3:Dc:60:PRO:CG	3.01	0.43
2:Cd:78:ALA:HB1	2:Cd:195:VAL:HG12	1.99	0.43
2:Cf:152:TYR:CE1	3:Df:60:PRO:CG	3.01	0.43
2:Cg:84:PRO:HD2	2:Cg:186:LEU:CD2	2.48	0.43
2:Ch:84:PRO:HD2	2:Ch:186:LEU:CD2	2.48	0.43
2:Ch:95:HIS:CD2	2:Ch:95:HIS:C	2.93	0.43
2:Ch:152:TYR:CE1	3:Dh:60:PRO:CG	3.01	0.43
2:Cj:39:PRO:HB3	2:Cj:176:PRO:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ck:13:ARG:HD3	2:Ck:13:ARG:HA	1.72	0.43
2:Cl:116:ALA:N	3:D8:119:LYS:NZ	2.66	0.43
2:Cm:22:THR:HG23	2:Cm:22:THR:O	2.18	0.43
2:Cm:84:PRO:HD2	2:Cm:186:LEU:CD2	2.48	0.43
2:Cn:57:THR:HG22	2:Cn:58:LEU:H	1.83	0.43
2:Cn:78:ALA:HB1	2:Cn:195:VAL:HG12	1.99	0.43
2:Co:117:SER:HB3	3:DR:192:THR:CG2	2.48	0.43
2:Cp:57:THR:HG22	2:Cp:58:LEU:H	1.82	0.43
2:Cq:134:HIS:HB3	2:Cq:135:THR:H	1.47	0.43
2:Cr:54:LEU:HD21	2:Cr:97:VAL:HG11	1.99	0.43
2:Cr:125:CYS:SG	2:Cr:160:HIS:HD2	2.40	0.43
2:Cs:75:HIS:HA	2:Cs:198:ILE:O	2.17	0.43
2:Ct:36:TYR:CE2	2:Ct:130:PRO:CG	2.98	0.43
2:Ct:42:ARG:HA	2:Ct:43:PRO:HD2	1.64	0.43
2:Cw:25:ASN:O	2:Cw:26:SER:HB3	2.18	0.43
2:Cw:49:ASP:HA	2:Cw:50:PRO:HD2	1.80	0.43
3:D0:134:THR:OG1	3:D0:137:GLU:HG3	2.17	0.43
3:D0:175:THR:OG1	3:D0:178:ASN:ND2	2.51	0.43
3:D1:179:VAL:HG12	3:D1:181:GLY:N	2.33	0.43
3:D3:175:THR:OG1	3:D3:178:ASN:ND2	2.51	0.43
3:D8:56:ILE:CG1	3:D8:74:PHE:CE1	2.98	0.43
3:D9:79:SER:O	3:D9:81:SER:N	2.51	0.43
3:DA:7:SER:OG	3:DA:11:SER:HB3	2.17	0.43
3:DB:19:PRO:HB3	4:FA:30:TYR:CD2	2.52	0.43
3:DN:179:VAL:HG12	3:DN:181:GLY:N	2.32	0.43
3:DX:175:THR:OG1	3:DX:178:ASN:ND2	2.51	0.43
3:DY:43:PHE:O	3:DY:44:ILE:C	2.60	0.43
3:DY:97:PHE:HB3	3:DY:218:HIS:O	2.17	0.43
3:DY:175:THR:OG1	3:DY:178:ASN:ND2	2.51	0.43
3:Da:101:ARG:HG2	3:Da:101:ARG:O	2.17	0.43
3:Dc:7:SER:OG	3:Dc:11:SER:HB3	2.17	0.43
3:Di:7:SER:OG	3:Di:11:SER:HB3	2.17	0.43
3:Dj:179:VAL:HG12	3:Dj:181:GLY:N	2.32	0.43
3:Dk:175:THR:OG1	3:Dk:178:ASN:ND2	2.51	0.43
3:Dp:19:PRO:HB3	4:Fo:30:TYR:CD2	2.52	0.43
3:Dr:7:SER:OG	3:Dr:11:SER:HB3	2.17	0.43
3:Ds:134:THR:OG1	3:Ds:137:GLU:HG3	2.17	0.43
3:EA:36:VAL:HA	3:EA:37:PRO:HD3	1.53	0.43
3:EB:160:TYR:CD1	3:EB:160:TYR:C	2.94	0.43
3:EC:97:PHE:HB3	3:EC:218:HIS:O	2.17	0.43
4:Fh:16:GLY:O	4:Fh:18:SER:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:40:VAL:HB	1:A0:68:TRP:CH2	2.53	0.43
1:A0:49:THR:HG22	1:A0:50:GLY:H	1.82	0.43
1:A0:109:VAL:HG22	1:A0:191:HIS:HD2	1.82	0.43
1:A1:22:VAL:HG12	1:A1:23:ASP:N	2.33	0.43
1:A1:49:THR:HG22	1:A1:50:GLY:H	1.82	0.43
1:A1:103:TRP:CZ2	1:A2:208:TYR:CE2	3.06	0.43
1:A2:101:PHE:O	1:A2:199:SER:OG	2.33	0.43
1:A3:22:VAL:HG12	1:A3:23:ASP:N	2.33	0.43
1:A3:26:VAL:HG12	1:A3:27:HIS:N	2.32	0.43
1:A5:121:LEU:HD21	1:A6:206:GLY:CA	2.47	0.43
1:A5:224:ILE:HA	1:A5:225:PRO:HD2	1.86	0.43
1:A6:62:SER:O	1:A6:63:THR:CB	2.66	0.43
1:A6:201:ALA:O	1:A6:202:HIS:HD2	2.01	0.43
1:A6:220:CYS:HA	1:A6:221:PRO:HD2	1.82	0.43
1:A7:55:HIS:O	1:A7:194:SER:HB2	2.18	0.43
1:A7:201:ALA:O	1:A7:202:HIS:CD2	2.71	0.43
1:A9:121:LEU:HD21	1:An:206:GLY:CA	2.47	0.43
1:AA:220:CYS:HA	1:AA:221:PRO:HD2	1.82	0.43
1:AB:40:VAL:HB	1:AB:68:TRP:CH2	2.53	0.43
1:AB:199:SER:C	1:AB:201:ALA:H	2.24	0.43
1:AF:49:THR:HG22	1:AF:50:GLY:H	1.82	0.43
1:AF:201:ALA:O	1:AF:202:HIS:CD2	2.71	0.43
1:AG:22:VAL:HG12	1:AG:23:ASP:N	2.32	0.43
1:AG:72:LEU:O	1:AG:75:CYS:SG	2.76	0.43
1:AJ:146:ILE:O	1:AJ:146:ILE:HG22	2.18	0.43
1:AJ:174:TRP:HB2	2:CJ:188:LEU:CD2	2.44	0.43
1:AM:72:LEU:O	1:AM:75:CYS:SG	2.76	0.43
1:AO:62:SER:O	1:AO:63:THR:CB	2.66	0.43
1:AO:101:PHE:CD2	1:AO:143:VAL:CG1	2.91	0.43
1:AO:225:PRO:HA	1:AO:226:PRO:HD2	1.87	0.43
1:AP:40:VAL:HB	1:AP:68:TRP:CH2	2.54	0.43
1:AQ:49:THR:HG22	1:AQ:50:GLY:H	1.82	0.43
1:AR:121:LEU:HD21	1:Ao:206:GLY:CA	2.47	0.43
1:AS:49:THR:HG22	1:AS:50:GLY:H	1.82	0.43
1:AT:137:GLY:HA2	1:AU:38:PHE:CD1	2.48	0.43
1:AT:234:LYS:HA	1:AT:234:LYS:HD3	1.89	0.43
1:AU:40:VAL:HB	1:AU:68:TRP:CH2	2.53	0.43
1:AU:62:SER:O	1:AU:63:THR:CB	2.66	0.43
1:AW:40:VAL:HB	1:AW:68:TRP:CH2	2.53	0.43
1:Aa:62:SER:O	1:Aa:63:THR:CB	2.66	0.43
1:Ab:22:VAL:HG12	1:Ab:23:ASP:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:55:HIS:O	1:Ab:194:SER:HB2	2.17	0.43
1:Ac:22:VAL:HG12	1:Ac:23:ASP:N	2.33	0.43
1:Ah:121:LEU:HD21	1:Ai:206:GLY:CA	2.47	0.43
1:Ah:174:TRP:HB2	2:Cj:188:LEU:CD2	2.44	0.43
1:Ai:110:GLY:H	1:Aj:242:ASN:ND2	2.12	0.43
1:Ai:181:LYS:O	1:Ai:182:ALA:CB	2.66	0.43
1:Aj:56:VAL:HG13	1:Aj:193:GLY:O	2.17	0.43
1:Aj:62:SER:O	1:Aj:63:THR:CB	2.66	0.43
1:Ak:49:THR:HG22	1:Ak:50:GLY:H	1.82	0.43
1:Ak:201:ALA:O	1:Ak:202:HIS:HD2	2.01	0.43
1:Al:43:LEU:N	1:Al:43:LEU:CD2	2.74	0.43
1:Am:242:ASN:ND2	1:BD:110:GLY:H	2.12	0.43
1:An:174:TRP:HB2	2:Cb:188:LEU:CD2	2.44	0.43
1:Ao:22:VAL:HG12	1:Ao:23:ASP:N	2.33	0.43
1:Ao:26:VAL:HG12	1:Ao:27:HIS:N	2.32	0.43
1:Ao:62:SER:O	1:Ao:63:THR:CB	2.66	0.43
1:BA:187:LEU:HD13	1:BA:187:LEU:C	2.44	0.43
1:BD:26:VAL:HG12	1:BD:27:HIS:N	2.32	0.43
1:BD:201:ALA:O	1:BD:202:HIS:CD2	2.71	0.43
1:BF:170:PHE:CD2	1:BF:222:ARG:NH1	2.85	0.43
1:BG:55:HIS:O	1:BG:194:SER:HB2	2.18	0.43
1:BG:109:VAL:HG22	1:BG:191:HIS:HD2	1.82	0.43
1:BH:187:LEU:HD13	1:BH:187:LEU:C	2.44	0.43
1:BH:224:ILE:HA	1:BH:225:PRO:HD2	1.86	0.43
1:BI:40:VAL:HB	1:BI:68:TRP:CH2	2.53	0.43
1:BI:146:ILE:O	1:BI:146:ILE:HG22	2.17	0.43
2:C0:152:TYR:HB3	2:C0:197:LEU:HD22	2.00	0.43
2:C2:27:GLN:CD	2:C2:27:GLN:C	2.87	0.43
2:C2:84:PRO:HD2	2:C2:186:LEU:CD2	2.48	0.43
2:C2:153:GLN:NE2	3:D2:55:SER:CB	2.80	0.43
2:C4:125:CYS:SG	2:C4:160:HIS:HD2	2.40	0.43
2:C5:54:LEU:HB2	2:C5:220:ALA:HB3	1.99	0.43
2:C5:135:THR:HG23	2:C5:145:LEU:HD11	1.99	0.43
2:C7:22:THR:HG23	2:C7:22:THR:O	2.19	0.43
2:C8:27:GLN:CD	2:C8:27:GLN:C	2.87	0.43
2:CA:46:THR:CG2	3:DB:165:ASP:HA	2.38	0.43
2:CB:135:THR:HG23	2:CB:145:LEU:HD11	1.98	0.43
2:CB:160:HIS:HE2	3:DB:51:TYR:HE1	1.64	0.43
2:CC:84:PRO:HD2	2:CC:186:LEU:CD2	2.48	0.43
2:CC:135:THR:HG23	2:CC:145:LEU:HD11	1.99	0.43
2:CD:57:THR:HG22	2:CD:58:LEU:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:83:LEU:HA	2:CE:84:PRO:HA	1.60	0.43
2:CE:180:PRO:HD2	2:CE:189:HIS:HE1	1.76	0.43
2:CF:152:TYR:HB3	2:CF:197:LEU:HD22	2.00	0.43
2:CG:25:ASN:O	2:CG:26:SER:HB3	2.18	0.43
2:CG:34:TYR:HA	2:CG:174:VAL:O	2.18	0.43
2:CG:116:ALA:N	3:EB:119:LYS:NZ	2.66	0.43
2:CH:34:TYR:HA	2:CH:174:VAL:O	2.18	0.43
2:CH:58:LEU:HB3	2:CH:59:SER:H	1.65	0.43
2:CN:152:TYR:CE1	3:DN:60:PRO:CG	3.01	0.43
2:CO:39:PRO:HB3	2:CO:176:PRO:HA	1.99	0.43
2:CP:152:TYR:CE1	3:DP:60:PRO:CG	3.01	0.43
2:CR:34:TYR:HA	2:CR:174:VAL:O	2.18	0.43
2:CR:57:THR:O	2:CR:58:LEU:CB	2.66	0.43
2:CS:116:ALA:N	3:Dc:119:LYS:NZ	2.66	0.43
2:CS:160:HIS:HE2	3:DS:51:TYR:HE1	1.64	0.43
2:CT:117:SER:HB3	3:DK:192:THR:CG2	2.47	0.43
2:CU:153:GLN:NE2	3:DU:55:SER:CB	2.80	0.43
2:CV:25:ASN:O	2:CV:26:SER:HB3	2.18	0.43
2:CX:22:THR:HG23	2:CX:22:THR:O	2.19	0.43
2:CX:56:PRO:C	2:CX:57:THR:O	2.59	0.43
2:CX:117:SER:HB3	3:Dr:192:THR:CG2	2.47	0.43
2:CY:25:ASN:O	2:CY:26:SER:HB3	2.18	0.43
2:CZ:84:PRO:HD2	2:CZ:186:LEU:CD2	2.48	0.43
2:Ca:27:GLN:CD	2:Ca:27:GLN:C	2.87	0.43
2:Ca:117:SER:HB3	3:DL:192:THR:CG2	2.47	0.43
2:Ca:207:GLN:HB3	3:DL:196:ILE:HG21	2.01	0.43
2:Cd:54:LEU:HD21	2:Cd:97:VAL:HG11	1.99	0.43
2:Cd:152:TYR:CE1	3:Dd:60:PRO:CG	3.01	0.43
2:Cd:156:SER:HA	2:Cd:160:HIS:CD2	2.52	0.43
2:Cg:34:TYR:HA	2:Cg:174:VAL:O	2.18	0.43
2:Cg:49:ASP:HA	2:Cg:50:PRO:HD2	1.80	0.43
2:Ch:34:TYR:HA	2:Ch:174:VAL:O	2.18	0.43
2:Ch:69:TRP:CZ3	2:Ch:124:LEU:HD11	2.52	0.43
2:Ci:39:PRO:HB3	2:Ci:176:PRO:HA	1.99	0.43
2:Ci:117:SER:HB3	3:Dj:192:THR:CG2	2.47	0.43
2:Cj:116:ALA:N	3:DM:119:LYS:NZ	2.66	0.43
2:Cj:117:SER:HB3	3:DM:192:THR:CG2	2.47	0.43
2:Cj:152:TYR:HB3	2:Cj:197:LEU:HD22	2.00	0.43
2:Cl:78:ALA:HB1	2:Cl:195:VAL:HG12	1.99	0.43
2:Cl:152:TYR:HB3	2:Cl:197:LEU:HD22	2.00	0.43
2:Cl:157:VAL:HG23	3:Di:50:THR:HG21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cm:78:ALA:HB1	2:Cm:195:VAL:HG12	1.99	0.43
2:Co:152:TYR:CE1	3:Do:60:PRO:CG	3.01	0.43
2:Cp:157:VAL:HG23	3:Dp:50:THR:HG21	1.99	0.43
2:Cr:42:ARG:HA	2:Cr:43:PRO:HD2	1.64	0.43
2:Cr:84:PRO:HD2	2:Cr:186:LEU:CD2	2.48	0.43
2:Ct:117:SER:HB3	3:DH:192:THR:CG2	2.47	0.43
2:Ct:152:TYR:CE1	3:EA:60:PRO:CG	3.01	0.43
2:Ct:156:SER:HA	2:Ct:160:HIS:CD2	2.52	0.43
2:Cu:116:ALA:N	3:D5:119:LYS:NZ	2.66	0.43
2:Cv:57:THR:HG22	2:Cv:58:LEU:H	1.82	0.43
2:Cv:117:SER:HB3	3:Dd:192:THR:CG2	2.47	0.43
2:Cw:23:ILE:HD12	2:Cw:23:ILE:H	1.80	0.43
2:Cx:22:THR:HG23	2:Cx:22:THR:O	2.19	0.43
2:Cx:23:ILE:HD12	2:Cx:23:ILE:H	1.80	0.43
2:Cx:55:GLY:HA2	2:Cx:56:PRO:HD3	1.80	0.43
2:Cx:117:SER:HB3	3:Do:192:THR:CG2	2.48	0.43
3:D1:103:SER:HB2	3:D1:159:PRO:HA	1.95	0.43
3:D5:198:VAL:HG23	3:D5:199:ASN:H	1.82	0.43
3:D7:217:ARG:HD3	3:D7:218:HIS:CD2	2.54	0.43
3:DA:175:THR:OG1	3:DA:178:ASN:ND2	2.51	0.43
3:DA:198:VAL:HG23	3:DA:199:ASN:H	1.82	0.43
3:DC:160:TYR:C	3:DC:160:TYR:CD1	2.94	0.43
3:DE:134:THR:OG1	3:DE:137:GLU:HG3	2.17	0.43
3:DE:160:TYR:C	3:DE:160:TYR:CD1	2.94	0.43
3:DL:175:THR:OG1	3:DL:178:ASN:ND2	2.51	0.43
3:DP:101:ARG:O	3:DP:101:ARG:HG2	2.17	0.43
3:DQ:160:TYR:C	3:DQ:160:TYR:CD1	2.94	0.43
3:DT:175:THR:OG1	3:DT:178:ASN:ND2	2.51	0.43
3:DU:179:VAL:HG12	3:DU:181:GLY:N	2.32	0.43
3:DX:179:VAL:HG12	3:DX:181:GLY:N	2.32	0.43
3:DY:79:SER:O	3:DY:81:SER:N	2.51	0.43
3:DY:121:LEU:C	3:DY:121:LEU:CD2	2.89	0.43
3:De:97:PHE:HB3	3:De:218:HIS:O	2.17	0.43
3:Dg:198:VAL:HG23	3:Dg:199:ASN:H	1.82	0.43
3:Dp:179:VAL:HG12	3:Dp:181:GLY:N	2.32	0.43
3:Dr:97:PHE:HB3	3:Dr:218:HIS:O	2.17	0.43
3:ED:77:ASP:O	3:ED:79:SER:N	2.50	0.43
1:A0:55:HIS:O	1:A0:194:SER:HB2	2.18	0.43
1:A0:174:TRP:HB2	2:C1:188:LEU:CD2	2.44	0.43
1:A0:224:ILE:HA	1:A0:225:PRO:HD2	1.86	0.43
1:A1:40:VAL:HB	1:A1:68:TRP:CH2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:62:SER:O	1:A1:63:THR:CB	2.66	0.43
1:A1:109:VAL:HG22	1:A1:191:HIS:HD2	1.82	0.43
1:A2:26:VAL:HG12	1:A2:27:HIS:N	2.32	0.43
1:A2:55:HIS:O	1:A2:194:SER:HB2	2.18	0.43
1:A2:201:ALA:O	1:A2:202:HIS:HD2	2.01	0.43
1:A3:52:PRO:HD3	1:A3:115:THR:O	2.17	0.43
1:A3:109:VAL:HG22	1:A3:191:HIS:HD2	1.82	0.43
1:A9:22:VAL:HG12	1:A9:23:ASP:N	2.33	0.43
1:AA:55:HIS:O	1:AA:194:SER:HB2	2.18	0.43
1:AA:201:ALA:O	1:AA:202:HIS:CD2	2.71	0.43
1:AA:201:ALA:O	1:AA:202:HIS:HD2	2.01	0.43
1:AB:26:VAL:HG12	1:AB:27:HIS:N	2.32	0.43
1:AC:62:SER:O	1:AC:63:THR:CB	2.66	0.43
1:AC:146:ILE:HG22	1:AC:146:ILE:O	2.17	0.43
1:AD:201:ALA:O	1:AD:202:HIS:HD2	2.01	0.43
1:AF:101:PHE:O	1:AF:199:SER:OG	2.33	0.43
1:AF:201:ALA:O	1:AF:202:HIS:HD2	2.01	0.43
1:AG:40:VAL:HB	1:AG:68:TRP:CH2	2.54	0.43
1:AG:201:ALA:O	1:AG:202:HIS:CD2	2.71	0.43
1:AG:220:CYS:HA	1:AG:221:PRO:HD2	1.82	0.43
1:AI:40:VAL:HB	1:AI:68:TRP:CH2	2.53	0.43
1:AI:62:SER:O	1:AI:63:THR:CB	2.66	0.43
1:AJ:72:LEU:O	1:AJ:75:CYS:SG	2.76	0.43
1:AJ:201:ALA:O	1:AJ:202:HIS:CD2	2.71	0.43
1:AK:208:TYR:CE2	1:AO:103:TRP:CZ2	3.06	0.43
1:AL:174:TRP:HB2	2:CL:188:LEU:CD2	2.44	0.43
1:AM:137:GLY:HA2	1:AN:38:PHE:CD1	2.49	0.43
1:AN:52:PRO:HD3	1:AN:115:THR:O	2.17	0.43
1:AN:92:THR:HB	1:AN:93:THR:H	1.62	0.43
1:AN:103:TRP:CZ2	1:AO:208:TYR:CE2	3.06	0.43
1:AP:109:VAL:HG22	1:AP:191:HIS:HD2	1.82	0.43
1:AQ:121:LEU:HD21	1:AR:206:GLY:CA	2.47	0.43
1:AR:55:HIS:O	1:AR:194:SER:HB2	2.18	0.43
1:AS:146:ILE:O	1:AS:146:ILE:HG22	2.17	0.43
1:AS:201:ALA:O	1:AS:202:HIS:CD2	2.71	0.43
1:AV:219:TYR:HD2	3:DW:39:ARG:HB2	1.79	0.43
1:Aa:40:VAL:HB	1:Aa:68:TRP:CH2	2.53	0.43
1:Aa:199:SER:C	1:Aa:201:ALA:H	2.25	0.43
1:Ac:7:ASP:O	1:Ac:8:GLY:C	2.59	0.43
1:Ac:40:VAL:HB	1:Ac:68:TRP:CH2	2.53	0.43
1:Ac:146:ILE:HG22	1:Ac:146:ILE:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ae:55:HIS:O	1:Ae:194:SER:HB2	2.18	0.43
1:Af:74:THR:O	1:Af:74:THR:HG22	2.19	0.43
1:Af:146:ILE:HD13	1:Af:146:ILE:HG21	1.74	0.43
1:Ag:109:VAL:HG22	1:Ag:191:HIS:HD2	1.82	0.43
1:Ag:201:ALA:O	1:Ag:202:HIS:HD2	2.01	0.43
1:Ah:187:LEU:HD13	1:Ah:187:LEU:C	2.44	0.43
1:Ai:26:VAL:HG12	1:Ai:27:HIS:N	2.32	0.43
1:Aj:201:ALA:O	1:Aj:202:HIS:HD2	2.01	0.43
1:Ak:101:PHE:O	1:Ak:199:SER:OG	2.33	0.43
1:Al:174:TRP:HB2	2:Cn:188:LEU:CD2	2.44	0.43
1:Am:201:ALA:O	1:Am:202:HIS:CD2	2.71	0.43
1:Ao:40:VAL:HB	1:Ao:68:TRP:CH2	2.53	0.43
1:Ao:55:HIS:O	1:Ao:194:SER:HB2	2.18	0.43
1:BA:170:PHE:CD2	1:BA:222:ARG:NH1	2.85	0.43
1:BA:220:CYS:HA	1:BA:221:PRO:HD2	1.82	0.43
1:BB:52:PRO:HD3	1:BB:115:THR:O	2.17	0.43
1:BD:22:VAL:HG12	1:BD:23:ASP:N	2.33	0.43
1:BE:62:SER:O	1:BE:63:THR:CB	2.66	0.43
1:BE:242:ASN:ND2	1:BI:110:GLY:H	2.12	0.43
1:BF:187:LEU:HD13	1:BF:187:LEU:C	2.44	0.43
1:BF:201:ALA:O	1:BF:202:HIS:CD2	2.71	0.43
1:BG:40:VAL:HB	1:BG:68:TRP:CH2	2.53	0.43
1:BH:109:VAL:HG22	1:BH:191:HIS:HD2	1.82	0.43
2:C0:27:GLN:C	2:C0:27:GLN:CD	2.87	0.43
2:C0:207:GLN:HB3	3:DQ:196:ILE:HG21	2.01	0.43
2:C2:152:TYR:OH	3:D2:60:PRO:HD3	2.17	0.43
2:C3:78:ALA:HB1	2:C3:195:VAL:HG12	1.99	0.43
2:C3:129:VAL:HA	2:C3:130:PRO:HD3	1.78	0.43
2:C4:157:VAL:HG23	3:D4:50:THR:HG21	1.99	0.43
2:C5:39:PRO:HB3	2:C5:176:PRO:HA	1.99	0.43
2:C6:22:THR:HG23	2:C6:22:THR:O	2.18	0.43
2:C6:54:LEU:HB2	2:C6:220:ALA:HB3	1.99	0.43
2:C7:54:LEU:HD21	2:C7:97:VAL:HG11	1.99	0.43
2:C8:57:THR:HG22	2:C8:58:LEU:H	1.82	0.43
2:C8:117:SER:HB3	3:D9:192:THR:CG2	2.48	0.43
2:C8:125:CYS:SG	2:C8:160:HIS:HD2	2.40	0.43
2:C8:152:TYR:CE1	3:D8:60:PRO:CG	3.01	0.43
2:C9:156:SER:HA	2:C9:160:HIS:CD2	2.52	0.43
2:CC:125:CYS:SG	2:CC:160:HIS:HD2	2.41	0.43
2:CD:22:THR:O	2:CD:22:THR:HG23	2.18	0.43
2:CF:27:GLN:CD	2:CF:27:GLN:C	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:13:ARG:HA	2:CH:13:ARG:HD3	1.72	0.43
2:CH:49:ASP:HA	2:CH:50:PRO:HD2	1.80	0.43
2:CI:152:TYR:CE1	3:DI:60:PRO:CG	3.01	0.43
2:CK:156:SER:HA	2:CK:160:HIS:CD2	2.52	0.43
2:CL:116:ALA:N	3:Dk:119:LYS:NZ	2.66	0.43
2:CM:157:VAL:HG23	3:DM:50:THR:HG21	1.99	0.43
2:CN:117:SER:HB3	3:D2:192:THR:CG2	2.48	0.43
2:CN:153:GLN:NE2	3:DN:55:SER:CB	2.80	0.43
2:CO:27:GLN:CD	2:CO:27:GLN:C	2.87	0.43
2:CP:22:THR:O	2:CP:22:THR:HG23	2.18	0.43
2:CP:83:LEU:HA	2:CP:84:PRO:HA	1.60	0.43
2:CR:56:PRO:C	2:CR:57:THR:O	2.59	0.43
2:CS:25:ASN:O	2:CS:26:SER:HB3	2.18	0.43
2:CS:34:TYR:HA	2:CS:174:VAL:O	2.18	0.43
2:CS:135:THR:HG23	2:CS:145:LEU:HD11	1.99	0.43
2:CT:57:THR:O	2:CT:58:LEU:CB	2.66	0.43
2:CU:84:PRO:HD2	2:CU:186:LEU:CD2	2.48	0.43
2:CU:135:THR:HG23	2:CU:145:LEU:HD11	1.98	0.43
2:CV:57:THR:O	2:CV:58:LEU:CB	2.66	0.43
2:CX:39:PRO:HB3	2:CX:176:PRO:HA	1.99	0.43
2:CX:116:ALA:N	3:Dr:119:LYS:NZ	2.66	0.43
2:CX:152:TYR:CE1	3:DX:60:PRO:CG	3.01	0.43
2:CX:157:VAL:HG23	3:DX:50:THR:HG21	1.99	0.43
2:CX:160:HIS:HD1	2:CX:160:HIS:N	2.14	0.43
2:CY:27:GLN:CD	2:CY:27:GLN:C	2.87	0.43
2:CZ:22:THR:O	2:CZ:22:THR:HG23	2.18	0.43
2:CZ:54:LEU:HD21	2:CZ:97:VAL:HG11	1.99	0.43
2:CZ:54:LEU:HB2	2:CZ:220:ALA:HB3	1.99	0.43
2:CZ:160:HIS:HE2	3:DZ:51:TYR:HE1	1.64	0.43
2:Cb:27:GLN:CD	2:Cb:27:GLN:C	2.87	0.43
2:Cb:42:ARG:HA	2:Cb:43:PRO:HD2	1.64	0.43
2:Cb:129:VAL:HA	2:Cb:130:PRO:HD3	1.77	0.43
2:Ce:69:TRP:CZ3	2:Ce:124:LEU:HD11	2.52	0.43
2:Ce:108:TRP:O	2:Ce:218:ILE:HD12	2.17	0.43
2:Cf:39:PRO:HB3	2:Cf:176:PRO:HA	1.99	0.43
2:Cf:54:LEU:HB2	2:Cf:220:ALA:HB3	1.99	0.43
2:Cg:54:LEU:HB2	2:Cg:220:ALA:HB3	1.99	0.43
2:Ch:116:ALA:N	3:DN:119:LYS:NZ	2.66	0.43
2:Ci:207:GLN:HB3	3:Dj:196:ILE:HG21	2.01	0.43
2:Ck:36:TYR:CE2	2:Ck:130:PRO:CG	2.98	0.43
2:Cl:160:HIS:HD1	2:Cl:160:HIS:N	2.14	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cm:46:THR:CG2	3:Dn:165:ASP:HA	2.37	0.43
2:Cn:25:ASN:O	2:Cn:26:SER:HB3	2.18	0.43
2:Cn:54:LEU:HD21	2:Cn:97:VAL:HG11	1.99	0.43
2:Cn:152:TYR:HB3	2:Cn:197:LEU:HD22	2.00	0.43
2:Cn:207:GLN:HB3	3:De:196:ILE:HG21	2.01	0.43
2:Co:13:ARG:HA	2:Co:13:ARG:HD3	1.72	0.43
2:Cp:152:TYR:CE1	3:Dp:60:PRO:CG	3.01	0.43
2:Cp:207:GLN:HB3	3:D0:196:ILE:HG21	2.00	0.43
2:Cq:27:GLN:CD	2:Cq:27:GLN:C	2.87	0.43
2:Cq:54:LEU:HB2	2:Cq:220:ALA:HB3	1.99	0.43
2:Cs:160:HIS:HD1	2:Cs:160:HIS:N	2.14	0.43
2:Ct:69:TRP:CZ3	2:Ct:124:LEU:HD11	2.52	0.43
2:Ct:116:ALA:N	3:DH:119:LYS:NZ	2.66	0.43
2:Ct:153:GLN:NE2	3:EA:55:SER:CB	2.80	0.43
2:Ct:207:GLN:HB3	3:DH:196:ILE:HG21	2.01	0.43
2:Cu:25:ASN:O	2:Cu:26:SER:HB3	2.18	0.43
2:Cu:56:PRO:C	2:Cu:57:THR:O	2.59	0.43
2:Cu:157:VAL:HG23	3:EB:50:THR:HG21	1.99	0.43
2:Cu:212:THR:HG23	3:D5:188:LEU:HD22	1.96	0.43
2:Cw:116:ALA:N	3:DS:119:LYS:NZ	2.66	0.43
2:Cx:152:TYR:HB3	2:Cx:197:LEU:HD22	2.00	0.43
2:Cx:152:TYR:OH	3:EE:60:PRO:HD3	2.17	0.43
3:D0:97:PHE:HB3	3:D0:218:HIS:O	2.17	0.43
3:D0:101:ARG:O	3:D0:101:ARG:HG2	2.17	0.43
3:D1:79:SER:O	3:D1:81:SER:N	2.51	0.43
3:D1:217:ARG:HD3	3:D1:218:HIS:CD2	2.54	0.43
3:D2:56:ILE:CG1	3:D2:74:PHE:CE1	2.98	0.43
3:D2:97:PHE:HB3	3:D2:218:HIS:O	2.17	0.43
3:D4:43:PHE:O	3:D4:44:ILE:C	2.60	0.43
3:DD:8:VAL:CG1	3:DD:9:PRO:HD2	2.39	0.43
3:DF:56:ILE:CG1	3:DF:74:PHE:CE1	2.98	0.43
3:DF:175:THR:OG1	3:DF:178:ASN:ND2	2.51	0.43
3:DI:43:PHE:O	3:DI:44:ILE:C	2.60	0.43
3:DI:86:HIS:ND1	3:DI:86:HIS:C	2.77	0.43
3:DJ:103:SER:HB2	3:DJ:159:PRO:HA	1.95	0.43
3:DK:97:PHE:HB3	3:DK:218:HIS:O	2.17	0.43
3:DM:43:PHE:O	3:DM:44:ILE:C	2.60	0.43
3:DN:8:VAL:CG1	3:DN:9:PRO:HD2	2.39	0.43
3:DN:43:PHE:O	3:DN:44:ILE:C	2.60	0.43
3:DO:175:THR:OG1	3:DO:178:ASN:ND2	2.51	0.43
3:DP:75:GLN:NE2	3:DP:184:GLN:OE1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DR:134:THR:OG1	3:DR:137:GLU:HG3	2.17	0.43
3:DT:134:THR:OG1	3:DT:137:GLU:HG3	2.17	0.43
3:DU:56:ILE:CG1	3:DU:74:PHE:CE1	2.98	0.43
3:DV:175:THR:OG1	3:DV:178:ASN:ND2	2.51	0.43
3:DZ:179:VAL:HG12	3:DZ:181:GLY:N	2.32	0.43
3:Dc:101:ARG:O	3:Dc:101:ARG:HG2	2.17	0.43
3:Df:134:THR:OG1	3:Df:137:GLU:HG3	2.17	0.43
3:Df:198:VAL:HG23	3:Df:199:ASN:H	1.82	0.43
3:Dh:217:ARG:HD3	3:Dh:218:HIS:CD2	2.54	0.43
3:Dj:7:SER:OG	3:Dj:11:SER:HB3	2.17	0.43
3:Dj:217:ARG:HD3	3:Dj:218:HIS:CD2	2.54	0.43
3:Do:86:HIS:ND1	3:Do:86:HIS:C	2.77	0.43
3:Dp:56:ILE:CG1	3:Dp:74:PHE:CE1	2.98	0.43
3:Dp:217:ARG:HD3	3:Dp:218:HIS:CD2	2.54	0.43
3:Dq:101:ARG:O	3:Dq:101:ARG:HG2	2.17	0.43
3:Ds:97:PHE:HB3	3:Ds:218:HIS:O	2.17	0.43
4:FF:18:SER:O	4:FF:23:GLN:NE2	2.52	0.43
4:FY:18:SER:O	4:FY:23:GLN:NE2	2.52	0.43
1:A0:101:PHE:CD2	1:A0:143:VAL:CG1	2.91	0.43
1:A0:187:LEU:HD13	1:A0:187:LEU:C	2.44	0.43
1:A0:220:CYS:HA	1:A0:221:PRO:HD2	1.82	0.43
1:A1:219:TYR:HD2	3:D2:39:ARG:HB2	1.79	0.43
1:A2:187:LEU:HD13	1:A2:187:LEU:C	2.44	0.43
1:A3:201:ALA:O	1:A3:202:HIS:CD2	2.71	0.43
1:A4:56:VAL:HG13	1:A4:193:GLY:O	2.17	0.43
1:A4:170:PHE:CD2	1:A4:222:ARG:CZ	2.87	0.43
1:A5:52:PRO:HD3	1:A5:115:THR:O	2.17	0.43
1:A5:62:SER:O	1:A5:63:THR:CB	2.66	0.43
1:A5:74:THR:HG22	1:A5:74:THR:O	2.19	0.43
1:A5:181:LYS:O	1:A5:182:ALA:CB	2.66	0.43
1:A6:40:VAL:HB	1:A6:68:TRP:CH2	2.53	0.43
1:A6:62:SER:HB2	1:A6:73:ASN:ND2	2.27	0.43
1:A6:146:ILE:O	1:A6:146:ILE:HG22	2.17	0.43
1:A6:181:LYS:O	1:A6:182:ALA:CB	2.66	0.43
1:A7:40:VAL:HB	1:A7:68:TRP:CH2	2.53	0.43
1:A7:109:VAL:HG22	1:A7:191:HIS:HD2	1.82	0.43
1:A8:92:THR:HB	1:A8:93:THR:H	1.62	0.43
1:A9:65:GLN:HG2	1:A9:70:ARG:HD2	2.01	0.43
1:A9:101:PHE:O	1:A9:199:SER:OG	2.33	0.43
1:AA:38:PHE:CD1	1:AE:137:GLY:HA2	2.49	0.43
1:AA:72:LEU:O	1:AA:75:CYS:SG	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:55:HIS:O	1:AB:194:SER:HB2	2.17	0.43
1:AB:201:ALA:O	1:AB:202:HIS:CD2	2.71	0.43
1:AB:201:ALA:O	1:AB:202:HIS:HD2	2.01	0.43
1:AC:187:LEU:HD13	1:AC:187:LEU:C	2.44	0.43
1:AD:26:VAL:HG12	1:AD:27:HIS:N	2.32	0.43
1:AE:26:VAL:HG12	1:AE:27:HIS:N	2.32	0.43
1:AE:201:ALA:O	1:AE:202:HIS:HD2	2.01	0.43
1:AF:55:HIS:O	1:AF:194:SER:HB2	2.18	0.43
1:AH:181:LYS:O	1:AH:182:ALA:CB	2.66	0.43
1:AI:26:VAL:HG12	1:AI:27:HIS:N	2.32	0.43
1:AJ:40:VAL:HB	1:AJ:68:TRP:CH2	2.53	0.43
1:AJ:62:SER:O	1:AJ:63:THR:CB	2.66	0.43
1:AO:7:ASP:O	1:AO:8:GLY:C	2.59	0.43
1:AP:26:VAL:HG12	1:AP:27:HIS:N	2.32	0.43
1:AP:52:PRO:HD3	1:AP:115:THR:O	2.17	0.43
1:AQ:22:VAL:HG12	1:AQ:23:ASP:N	2.33	0.43
1:AQ:101:PHE:O	1:AQ:199:SER:OG	2.33	0.43
1:AQ:201:ALA:O	1:AQ:202:HIS:HD2	2.01	0.43
1:AR:49:THR:HG22	1:AR:50:GLY:H	1.82	0.43
1:AR:72:LEU:O	1:AR:75:CYS:SG	2.76	0.43
1:AT:22:VAL:HG12	1:AT:23:ASP:N	2.33	0.43
1:AU:49:THR:HG22	1:AU:50:GLY:H	1.82	0.43
1:AU:201:ALA:O	1:AU:202:HIS:CD2	2.71	0.43
1:AV:201:ALA:O	1:AV:202:HIS:CD2	2.71	0.43
1:AW:26:VAL:HG12	1:AW:27:HIS:N	2.32	0.43
1:AX:55:HIS:O	1:AX:194:SER:HB2	2.18	0.43
1:AX:62:SER:HB2	1:AX:73:ASN:ND2	2.27	0.43
1:Aa:187:LEU:HD13	1:Aa:187:LEU:C	2.44	0.43
1:Ac:26:VAL:HG12	1:Ac:27:HIS:N	2.32	0.43
1:Ac:65:GLN:HG2	1:Ac:70:ARG:HD2	2.01	0.43
1:Ad:181:LYS:O	1:Ad:182:ALA:CB	2.66	0.43
1:Ae:101:PHE:O	1:Ae:199:SER:OG	2.33	0.43
1:Ae:137:GLY:HA2	1:Af:38:PHE:CD1	2.49	0.43
1:Af:72:LEU:O	1:Af:75:CYS:SG	2.76	0.43
1:Ai:172:ASN:HB2	2:Ck:132:TYR:O	2.19	0.43
1:Aj:26:VAL:HG12	1:Aj:27:HIS:N	2.32	0.43
1:Aj:55:HIS:O	1:Aj:194:SER:HB2	2.18	0.43
1:Aj:65:GLN:HG2	1:Aj:70:ARG:HD2	2.01	0.43
1:Aj:109:VAL:HG22	1:Aj:191:HIS:HD2	1.82	0.43
1:Aj:181:LYS:O	1:Aj:182:ALA:CB	2.66	0.43
1:Al:220:CYS:HA	1:Al:221:PRO:HD2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:187:LEU:HD13	1:Am:187:LEU:C	2.44	0.43
1:Ao:139:SER:HA	1:Ao:140:PRO:HD3	1.62	0.43
1:BA:201:ALA:O	1:BA:202:HIS:CD2	2.71	0.43
1:BC:40:VAL:HB	1:BC:68:TRP:CH2	2.53	0.43
1:BC:174:TRP:HB2	2:Cr:188:LEU:CD2	2.44	0.43
1:BD:146:ILE:HG22	1:BD:146:ILE:O	2.17	0.43
1:BE:121:LEU:HD21	1:BF:206:GLY:CA	2.47	0.43
1:BE:146:ILE:HD13	1:BE:146:ILE:HG21	1.74	0.43
1:BF:62:SER:O	1:BF:63:THR:CB	2.66	0.43
1:BG:170:PHE:CD2	1:BG:222:ARG:NH1	2.85	0.43
1:BH:172:ASN:HB2	2:Cw:132:TYR:O	2.19	0.43
1:BI:22:VAL:HG12	1:BI:23:ASP:N	2.33	0.43
2:C0:54:LEU:HD21	2:C0:97:VAL:HG11	1.99	0.43
2:C1:34:TYR:HA	2:C1:174:VAL:O	2.18	0.43
2:C3:152:TYR:CE1	3:D3:60:PRO:CG	3.01	0.43
2:C6:39:PRO:HB3	2:C6:176:PRO:HA	1.99	0.43
2:C6:152:TYR:HB3	2:C6:197:LEU:HD22	2.00	0.43
2:C8:207:GLN:HB3	3:D9:196:ILE:HG21	2.00	0.43
2:C9:25:ASN:O	2:C9:26:SER:HB3	2.18	0.43
2:C9:83:LEU:HA	2:C9:84:PRO:HA	1.60	0.43
2:C9:135:THR:HG23	2:C9:145:LEU:HD11	1.98	0.43
2:CA:22:THR:HG23	2:CA:22:THR:O	2.18	0.43
2:CA:54:LEU:HB2	2:CA:220:ALA:HB3	1.99	0.43
2:CB:56:PRO:C	2:CB:57:THR:O	2.59	0.43
2:CC:54:LEU:HD21	2:CC:97:VAL:HG11	1.99	0.43
2:CD:207:GLN:HB3	3:D7:196:ILE:HG21	2.01	0.43
2:CE:117:SER:HB3	3:DF:192:THR:CG2	2.48	0.43
2:CF:57:THR:O	2:CF:58:LEU:CB	2.66	0.43
2:CG:152:TYR:CE1	3:DG:60:PRO:CG	3.01	0.43
2:CI:65:LYS:CB	3:DX:135:ARG:HH21	2.29	0.43
2:CJ:84:PRO:HD2	2:CJ:186:LEU:CD2	2.48	0.43
2:CJ:116:ALA:N	3:DA:119:LYS:NZ	2.66	0.43
2:CJ:117:SER:HB3	3:DA:192:THR:CG2	2.48	0.43
2:CJ:129:VAL:HA	2:CJ:130:PRO:HD3	1.78	0.43
2:CJ:152:TYR:CE1	3:DJ:60:PRO:CG	3.01	0.43
2:CJ:207:GLN:HB3	3:DA:196:ILE:HG21	2.01	0.43
2:CK:46:THR:CG2	3:DL:165:ASP:HA	2.38	0.43
2:CL:27:GLN:CD	2:CL:27:GLN:C	2.87	0.43
2:CM:22:THR:HG23	2:CM:22:THR:O	2.18	0.43
2:CM:56:PRO:C	2:CM:57:THR:O	2.59	0.43
2:CM:134:HIS:HB3	2:CM:135:THR:H	1.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:152:TYR:CE1	3:DM:60:PRO:CG	3.01	0.43
2:CN:180:PRO:HD2	2:CN:189:HIS:HE1	1.76	0.43
2:CO:13:ARG:HA	2:CO:13:ARG:HD3	1.72	0.43
2:CP:13:ARG:HD3	2:CP:13:ARG:HA	1.72	0.43
2:CS:56:PRO:C	2:CS:57:THR:O	2.59	0.43
2:CS:152:TYR:HB3	2:CS:197:LEU:HD22	2.00	0.43
2:CU:34:TYR:HA	2:CU:174:VAL:O	2.18	0.43
2:CU:212:THR:HG23	3:Dg:188:LEU:HD22	1.96	0.43
2:CV:57:THR:HG22	2:CV:58:LEU:H	1.82	0.43
2:CW:25:ASN:O	2:CW:26:SER:HB3	2.18	0.43
2:CW:46:THR:CG2	3:DX:165:ASP:HA	2.38	0.43
2:CX:54:LEU:HB2	2:CX:220:ALA:HB3	1.99	0.43
2:CX:115:ASN:HD22	3:Dr:190:ALA:C	2.17	0.43
2:Ca:156:SER:HA	2:Ca:160:HIS:CD2	2.52	0.43
2:Cb:65:LYS:CB	3:DT:135:ARG:HH21	2.29	0.43
2:Cd:25:ASN:O	2:Cd:26:SER:HB3	2.18	0.43
2:Cd:57:THR:O	2:Cd:58:LEU:CB	2.66	0.43
2:Ce:78:ALA:HB1	2:Ce:195:VAL:HG12	1.99	0.43
2:Ce:160:HIS:HE2	3:De:51:TYR:HE1	1.64	0.43
2:Cf:152:TYR:HB3	2:Cf:197:LEU:HD22	2.00	0.43
2:Ci:23:ILE:HD12	2:Ci:23:ILE:H	1.80	0.43
2:Ci:152:TYR:OH	3:Di:60:PRO:HD3	2.17	0.43
2:Cj:27:GLN:CD	2:Cj:27:GLN:C	2.87	0.43
2:Ck:152:TYR:HB3	2:Ck:197:LEU:HD22	2.00	0.43
2:Ck:180:PRO:HD2	2:Ck:189:HIS:HE1	1.76	0.43
2:Cl:34:TYR:HA	2:Cl:174:VAL:O	2.18	0.43
2:Cl:39:PRO:HB3	2:Cl:176:PRO:HA	1.99	0.43
2:Cn:13:ARG:HD3	2:Cn:13:ARG:HA	1.72	0.43
2:Cn:49:ASP:HA	2:Cn:50:PRO:HD2	1.80	0.43
2:Co:57:THR:O	2:Co:58:LEU:CB	2.66	0.43
2:Co:58:LEU:HB3	2:Co:59:SER:H	1.65	0.43
2:Cp:27:GLN:CD	2:Cp:27:GLN:C	2.87	0.43
2:Cp:103:LEU:HD21	3:Dq:163:PRO:HD3	2.01	0.43
2:Cp:152:TYR:HB3	2:Cp:197:LEU:HD22	2.00	0.43
2:Cr:129:VAL:HA	2:Cr:130:PRO:HD3	1.78	0.43
2:Cr:152:TYR:OH	3:Dr:60:PRO:HD3	2.17	0.43
2:Cs:22:THR:O	2:Cs:22:THR:HG23	2.18	0.43
2:Cs:42:ARG:HA	2:Cs:43:PRO:HD2	1.65	0.43
2:Cw:152:TYR:CE1	3:ED:60:PRO:CG	3.01	0.43
2:Cx:160:HIS:HE2	3:EE:51:TYR:HE1	1.64	0.43
3:D0:217:ARG:HD3	3:D0:218:HIS:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:119:LYS:O	3:D2:120:PHE:CB	2.67	0.43
3:D6:175:THR:OG1	3:D6:178:ASN:ND2	2.51	0.43
3:D8:43:PHE:O	3:D8:44:ILE:C	2.60	0.43
3:D8:75:GLN:NE2	3:D8:184:GLN:OE1	2.49	0.43
3:DC:56:ILE:CG1	3:DC:74:PHE:CE1	2.98	0.43
3:DD:75:GLN:NE2	3:DD:184:GLN:OE1	2.49	0.43
3:DF:101:ARG:O	3:DF:101:ARG:HG2	2.17	0.43
3:DH:79:SER:O	3:DH:81:SER:N	2.51	0.43
3:DK:217:ARG:HD3	3:DK:218:HIS:CD2	2.54	0.43
3:DN:217:ARG:HD3	3:DN:218:HIS:CD2	2.54	0.43
3:DP:8:VAL:CG1	3:DP:9:PRO:HD2	2.39	0.43
3:DR:179:VAL:HG12	3:DR:181:GLY:N	2.32	0.43
3:Da:134:THR:OG1	3:Da:137:GLU:HG3	2.17	0.43
3:Da:217:ARG:HD3	3:Da:218:HIS:CD2	2.54	0.43
3:Dd:217:ARG:HD3	3:Dd:218:HIS:CD2	2.54	0.43
3:Dg:86:HIS:ND1	3:Dg:86:HIS:C	2.77	0.43
3:Di:97:PHE:HB3	3:Di:218:HIS:O	2.17	0.43
3:Dj:97:PHE:HB3	3:Dj:218:HIS:O	2.17	0.43
3:Dl:75:GLN:NE2	3:Dl:184:GLN:OE1	2.49	0.43
3:Dn:217:ARG:HD3	3:Dn:218:HIS:CD2	2.54	0.43
3:Do:179:VAL:HG12	3:Do:181:GLY:N	2.32	0.43
3:Dp:101:ARG:O	3:Dp:101:ARG:HG2	2.17	0.43
3:Dq:119:LYS:O	3:Dq:120:PHE:CB	2.67	0.43
3:Ds:217:ARG:HD3	3:Ds:218:HIS:CD2	2.54	0.43
3:EA:101:ARG:HG2	3:EA:101:ARG:O	2.17	0.43
3:EA:217:ARG:HD3	3:EA:218:HIS:CD2	2.54	0.43
3:EB:86:HIS:ND1	3:EB:86:HIS:C	2.77	0.43
4:FD:18:SER:O	4:FD:23:GLN:NE2	2.52	0.43
4:FE:18:SER:O	4:FE:23:GLN:NE2	2.52	0.43
4:Fa:18:SER:O	4:Fa:23:GLN:NE2	2.52	0.43
4:Fr:18:SER:O	4:Fr:23:GLN:NE2	2.52	0.43
1:A0:26:VAL:HG12	1:A0:27:HIS:N	2.32	0.43
1:A0:137:GLY:HA2	1:A1:38:PHE:CD1	2.49	0.43
1:A0:234:LYS:HA	1:A0:234:LYS:HD3	1.89	0.43
1:A1:201:ALA:O	1:A1:202:HIS:HD2	2.01	0.43
1:A2:172:ASN:HB2	2:C3:132:TYR:O	2.19	0.43
1:A3:187:LEU:C	1:A3:187:LEU:HD13	2.44	0.43
1:A5:22:VAL:HG12	1:A5:23:ASP:N	2.33	0.43
1:A7:187:LEU:HD13	1:A7:187:LEU:C	2.44	0.43
1:A8:40:VAL:HB	1:A8:68:TRP:CH2	2.53	0.43
1:A9:72:LEU:O	1:A9:75:CYS:SG	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:74:THR:O	1:AA:74:THR:HG22	2.19	0.43
1:AA:172:ASN:HB2	2:CA:132:TYR:O	2.19	0.43
1:AC:109:VAL:HG22	1:AC:191:HIS:HD2	1.82	0.43
1:AD:40:VAL:HB	1:AD:68:TRP:CH2	2.53	0.43
1:AE:144:PHE:CD2	1:AE:154:CYS:HB3	2.54	0.43
1:AH:201:ALA:O	1:AH:202:HIS:CD2	2.71	0.43
1:AI:146:ILE:O	1:AI:146:ILE:HG22	2.17	0.43
1:AI:184:TYR:HE2	2:CI:139:ALA:HB3	1.84	0.43
1:AJ:49:THR:HG22	1:AJ:50:GLY:H	1.82	0.43
1:AL:40:VAL:HB	1:AL:68:TRP:CH2	2.53	0.43
1:AM:74:THR:HG22	1:AM:74:THR:O	2.19	0.43
1:AN:181:LYS:O	1:AN:182:ALA:CB	2.66	0.43
1:AO:49:THR:HG22	1:AO:50:GLY:H	1.82	0.43
1:AO:55:HIS:O	1:AO:194:SER:HB2	2.17	0.43
1:AO:181:LYS:O	1:AO:182:ALA:CB	2.66	0.43
1:AO:201:ALA:O	1:AO:202:HIS:HD2	2.01	0.43
1:AP:22:VAL:HG12	1:AP:23:ASP:N	2.33	0.43
1:AP:146:ILE:HG22	1:AP:146:ILE:O	2.17	0.43
1:AQ:144:PHE:CD2	1:AQ:154:CYS:HB3	2.54	0.43
1:AR:26:VAL:HG12	1:AR:27:HIS:N	2.32	0.43
1:AR:181:LYS:O	1:AR:182:ALA:CB	2.66	0.43
1:AR:201:ALA:O	1:AR:202:HIS:CD2	2.71	0.43
1:AT:26:VAL:HG12	1:AT:27:HIS:N	2.32	0.43
1:AT:40:VAL:HB	1:AT:68:TRP:CH2	2.53	0.43
1:AT:62:SER:O	1:AT:63:THR:CB	2.66	0.43
1:AU:187:LEU:C	1:AU:187:LEU:HD13	2.44	0.43
1:AV:55:HIS:O	1:AV:194:SER:HB2	2.18	0.43
1:AV:62:SER:O	1:AV:63:THR:CB	2.66	0.43
1:AV:172:ASN:HB2	2:CW:132:TYR:O	2.19	0.43
1:AW:87:GLN:O	1:AW:88:PHE:CB	2.62	0.43
1:AX:172:ASN:HB2	2:CY:132:TYR:O	2.19	0.43
1:AY:52:PRO:HD3	1:AY:115:THR:O	2.17	0.43
1:AY:65:GLN:HG2	1:AY:70:ARG:HD2	2.01	0.43
1:AY:144:PHE:CD2	1:AY:154:CYS:HB3	2.54	0.43
1:AY:201:ALA:O	1:AY:202:HIS:HD2	2.01	0.43
1:AZ:62:SER:O	1:AZ:63:THR:CB	2.66	0.43
1:AZ:181:LYS:O	1:AZ:182:ALA:CB	2.66	0.43
1:Aa:55:HIS:O	1:Aa:194:SER:HB2	2.18	0.43
1:Ab:199:SER:C	1:Ab:201:ALA:H	2.24	0.43
1:Ad:49:THR:HG22	1:Ad:50:GLY:H	1.82	0.43
1:Ad:187:LEU:HD13	1:Ad:187:LEU:C	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ag:115:THR:HG23	1:Ag:133:LEU:N	2.25	0.43
1:Ag:144:PHE:CD2	1:Ag:154:CYS:HB3	2.54	0.43
1:Ak:144:PHE:CD2	1:Ak:154:CYS:HB3	2.54	0.43
1:Ak:187:LEU:C	1:Ak:187:LEU:HD13	2.44	0.43
1:Am:49:THR:HG22	1:Am:50:GLY:H	1.82	0.43
1:Am:172:ASN:HB2	2:Co:132:TYR:O	2.19	0.43
1:An:74:THR:O	1:An:74:THR:HG22	2.19	0.43
1:An:184:TYR:HE2	2:Cb:139:ALA:HB3	1.84	0.43
1:BB:74:THR:HG22	1:BB:74:THR:O	2.19	0.43
1:BC:26:VAL:HG12	1:BC:27:HIS:N	2.32	0.43
1:BE:26:VAL:HG12	1:BE:27:HIS:N	2.32	0.43
1:BE:201:ALA:O	1:BE:202:HIS:CD2	2.71	0.43
1:BE:208:TYR:CE2	1:BI:103:TRP:CZ2	3.06	0.43
1:BG:146:ILE:HG22	1:BG:146:ILE:O	2.17	0.43
1:BH:62:SER:O	1:BH:63:THR:CB	2.66	0.43
1:BH:144:PHE:CD2	1:BH:154:CYS:HB3	2.54	0.43
1:BI:65:GLN:HG2	1:BI:70:ARG:HD2	2.01	0.43
2:C0:152:TYR:CE1	3:D0:60:PRO:CG	3.01	0.43
2:C1:27:GLN:CD	2:C1:27:GLN:C	2.87	0.43
2:C1:116:ALA:N	3:DO:119:LYS:NZ	2.66	0.43
2:C1:207:GLN:HB3	3:DO:196:ILE:HG21	2.01	0.43
2:C1:212:THR:HG23	3:DO:188:LEU:HD22	1.96	0.43
2:C4:27:GLN:CD	2:C4:27:GLN:C	2.87	0.43
2:C6:27:GLN:C	2:C6:27:GLN:CD	2.87	0.43
2:C6:34:TYR:HA	2:C6:174:VAL:O	2.18	0.43
2:C6:103:LEU:HD21	3:D7:163:PRO:HD3	2.01	0.43
2:C6:207:GLN:HB3	3:DE:196:ILE:HG21	2.00	0.43
2:C7:27:GLN:CD	2:C7:27:GLN:C	2.87	0.43
2:C7:157:VAL:HG23	3:D7:50:THR:HG21	1.99	0.43
2:CA:207:GLN:HB3	3:DW:196:ILE:HG21	2.01	0.43
2:CB:157:VAL:HG23	3:DB:50:THR:HG21	1.99	0.43
2:CD:116:ALA:N	3:D7:119:LYS:NZ	2.66	0.43
2:CE:25:ASN:O	2:CE:26:SER:HB3	2.18	0.43
2:CE:54:LEU:HD21	2:CE:97:VAL:HG11	1.99	0.43
2:CE:57:THR:HG22	2:CE:58:LEU:H	1.82	0.43
2:CE:65:LYS:CB	3:DF:135:ARG:HH21	2.29	0.43
2:CF:207:GLN:HB3	3:D6:196:ILE:HG21	2.01	0.43
2:CH:39:PRO:HB3	2:CH:176:PRO:HA	1.99	0.43
2:CI:34:TYR:HA	2:CI:174:VAL:O	2.18	0.43
2:CI:36:TYR:CE2	2:CI:130:PRO:CG	2.98	0.43
2:CI:160:HIS:HE2	3:DI:51:TYR:HE1	1.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CJ:54:LEU:HD21	2:CJ:97:VAL:HG11	1.99	0.43
2:CK:13:ARG:HD3	2:CK:13:ARG:HA	1.72	0.43
2:CL:25:ASN:O	2:CL:26:SER:HB3	2.18	0.43
2:CL:103:LEU:HD21	3:DM:163:PRO:HD3	2.01	0.43
2:CL:117:SER:HB3	3:Dk:192:THR:CG2	2.47	0.43
2:CL:152:TYR:OH	3:DL:60:PRO:HD3	2.17	0.43
2:CM:125:CYS:SG	2:CM:160:HIS:HD2	2.40	0.43
2:CO:22:THR:O	2:CO:22:THR:HG23	2.19	0.43
2:CP:39:PRO:HB3	2:CP:176:PRO:HA	1.99	0.43
2:CP:84:PRO:HD2	2:CP:186:LEU:CD2	2.48	0.43
2:CQ:23:ILE:HD12	2:CQ:23:ILE:H	1.80	0.43
2:CR:78:ALA:HB1	2:CR:195:VAL:HG12	1.99	0.43
2:CR:152:TYR:OH	3:DR:60:PRO:HD3	2.17	0.43
2:CU:125:CYS:SG	2:CU:160:HIS:HD2	2.40	0.43
2:CW:54:LEU:HB2	2:CW:220:ALA:HB3	1.99	0.43
2:CW:84:PRO:HD2	2:CW:186:LEU:CD2	2.48	0.43
2:CX:207:GLN:HB3	3:Dr:196:ILE:HG21	2.01	0.43
2:CZ:25:ASN:O	2:CZ:26:SER:HB3	2.18	0.43
2:Ca:129:VAL:HA	2:Ca:130:PRO:HD3	1.78	0.43
2:Cb:34:TYR:HA	2:Cb:174:VAL:O	2.18	0.43
2:Cb:58:LEU:HB3	2:Cb:59:SER:H	1.65	0.43
2:Cb:78:ALA:HB1	2:Cb:195:VAL:HG12	1.99	0.43
2:Cb:152:TYR:HB3	2:Cb:197:LEU:HD22	2.00	0.43
2:Cc:116:ALA:N	3:ED:119:LYS:NZ	2.66	0.43
2:Cc:117:SER:HB3	3:ED:192:THR:CG2	2.47	0.43
2:Cc:157:VAL:HG23	3:Dc:50:THR:HG21	1.99	0.43
2:Cd:22:THR:O	2:Cd:22:THR:HG23	2.18	0.43
2:Cd:42:ARG:HA	2:Cd:43:PRO:HD2	1.64	0.43
2:Cd:54:LEU:HB2	2:Cd:220:ALA:HB3	1.99	0.43
2:Ce:103:LEU:HD21	3:Df:163:PRO:HD3	2.01	0.43
2:Cf:125:CYS:SG	2:Cf:160:HIS:HD2	2.40	0.43
2:Cf:207:GLN:HB3	3:DV:196:ILE:HG21	2.00	0.43
2:Cf:212:THR:HG23	3:DV:188:LEU:HD22	1.96	0.43
2:Cg:152:TYR:CE1	3:Dg:60:PRO:CG	3.01	0.43
2:Ch:156:SER:HA	2:Ch:160:HIS:CD2	2.52	0.43
2:Ci:27:GLN:CD	2:Ci:27:GLN:C	2.87	0.43
2:Ck:34:TYR:HA	2:Ck:174:VAL:O	2.18	0.43
2:Cl:152:TYR:CE1	3:DI:60:PRO:CG	3.01	0.43
2:Cm:54:LEU:HD21	2:Cm:97:VAL:HG11	1.99	0.43
2:Cn:152:TYR:CE1	3:Dn:60:PRO:CG	3.01	0.43
2:Co:65:LYS:CB	3:DR:135:ARG:HH21	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Co:129:VAL:HA	2:Co:130:PRO:HD3	1.78	0.43
2:Cq:160:HIS:HE2	3:Dq:51:TYR:HE1	1.64	0.43
2:Cr:22:THR:O	2:Cr:22:THR:HG23	2.18	0.43
2:Cs:34:TYR:HA	2:Cs:174:VAL:O	2.18	0.43
2:Cs:152:TYR:CE1	3:Ds:60:PRO:CG	3.01	0.43
2:Cs:152:TYR:HB3	2:Cs:197:LEU:HD22	2.00	0.43
2:Ct:39:PRO:HB3	2:Ct:176:PRO:HA	1.99	0.43
2:Ct:54:LEU:HB2	2:Ct:220:ALA:HB3	1.99	0.43
2:Ct:84:PRO:HD2	2:Ct:186:LEU:CD2	2.48	0.43
2:Ct:157:VAL:HG23	3:EA:50:THR:HG21	1.99	0.43
2:Cv:116:ALA:N	3:Dd:119:LYS:NZ	2.66	0.43
2:Cw:42:ARG:HA	2:Cw:43:PRO:HD2	1.64	0.43
3:D3:97:PHE:HB3	3:D3:218:HIS:O	2.17	0.43
3:D9:217:ARG:HD3	3:D9:218:HIS:CD2	2.54	0.43
3:DC:217:ARG:HD3	3:DC:218:HIS:CD2	2.54	0.43
3:DD:79:SER:O	3:DD:81:SER:N	2.51	0.43
3:DF:217:ARG:HD3	3:DF:218:HIS:CD2	2.54	0.43
3:DG:134:THR:OG1	3:DG:137:GLU:HG3	2.17	0.43
3:DH:119:LYS:O	3:DH:120:PHE:CB	2.67	0.43
3:DJ:179:VAL:HG12	3:DJ:181:GLY:N	2.32	0.43
3:DL:217:ARG:HD3	3:DL:218:HIS:CD2	2.54	0.43
3:DM:198:VAL:HG23	3:DM:199:ASN:H	1.82	0.43
3:DN:119:LYS:O	3:DN:120:PHE:CB	2.67	0.43
3:DO:97:PHE:HB3	3:DO:218:HIS:O	2.17	0.43
3:DP:134:THR:OG1	3:DP:137:GLU:HG3	2.17	0.43
3:DP:175:THR:OG1	3:DP:178:ASN:ND2	2.51	0.43
3:DT:134:THR:HG1	3:DT:137:GLU:HG3	1.83	0.43
3:DU:43:PHE:O	3:DU:44:ILE:C	2.60	0.43
3:DV:121:LEU:C	3:DV:121:LEU:CD2	2.89	0.43
3:DV:217:ARG:HD3	3:DV:218:HIS:CD2	2.54	0.43
3:DW:217:ARG:HD3	3:DW:218:HIS:CD2	2.54	0.43
3:DZ:134:THR:OG1	3:DZ:137:GLU:HG3	2.17	0.43
3:Da:7:SER:OG	3:Da:11:SER:HB3	2.17	0.43
3:Da:43:PHE:O	3:Da:44:ILE:C	2.60	0.43
3:De:121:LEU:C	3:De:121:LEU:CD2	2.89	0.43
3:Dg:160:TYR:CD1	3:Dg:160:TYR:C	2.94	0.43
3:Dg:217:ARG:HD3	3:Dg:218:HIS:CD2	2.54	0.43
3:Di:217:ARG:HD3	3:Di:218:HIS:CD2	2.54	0.43
3:Dk:119:LYS:O	3:Dk:120:PHE:CB	2.67	0.43
3:Dm:43:PHE:O	3:Dm:44:ILE:C	2.60	0.43
3:Dp:75:GLN:NE2	3:Dp:184:GLN:OE1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dr:160:TYR:CD1	3:Dr:160:TYR:C	2.94	0.43
3:EB:43:PHE:O	3:EB:44:ILE:C	2.60	0.43
3:EB:103:SER:HB2	3:EB:159:PRO:HA	1.95	0.43
3:EC:101:ARG:O	3:EC:101:ARG:HG2	2.17	0.43
3:EC:217:ARG:HD3	3:EC:218:HIS:CD2	2.54	0.43
3:ED:7:SER:OG	3:ED:11:SER:HB3	2.17	0.43
4:F0:18:SER:O	4:F0:23:GLN:NE2	2.52	0.43
4:F1:18:SER:O	4:F1:23:GLN:NE2	2.52	0.43
4:F8:18:SER:O	4:F8:23:GLN:NE2	2.52	0.43
4:Fc:18:SER:O	4:Fc:23:GLN:NE2	2.52	0.43
4:Fj:18:SER:O	4:Fj:23:GLN:NE2	2.52	0.43
4:Fq:18:SER:O	4:Fq:23:GLN:NE2	2.52	0.43
1:A1:172:ASN:HB2	2:C2:132:TYR:O	2.19	0.43
1:A4:40:VAL:HB	1:A4:68:TRP:CH2	2.53	0.43
1:A4:65:GLN:HG2	1:A4:70:ARG:HD2	2.01	0.43
1:A4:110:GLY:H	1:A5:242:ASN:ND2	2.12	0.43
1:A5:40:VAL:HB	1:A5:68:TRP:CH2	2.53	0.43
1:A5:62:SER:HB2	1:A5:73:ASN:ND2	2.27	0.43
1:A5:65:GLN:HG2	1:A5:70:ARG:HD2	2.01	0.43
1:A5:220:CYS:HA	1:A5:221:PRO:HD2	1.82	0.43
1:A7:174:TRP:HB2	2:C8:188:LEU:CD2	2.44	0.43
1:A9:26:VAL:HG12	1:A9:27:HIS:N	2.32	0.43
1:A9:109:VAL:HG22	1:A9:191:HIS:HD2	1.82	0.43
1:AA:40:VAL:HB	1:AA:68:TRP:CH2	2.53	0.43
1:AA:65:GLN:HG2	1:AA:70:ARG:HD2	2.01	0.43
1:AB:187:LEU:HD13	1:AB:187:LEU:C	2.44	0.43
1:AC:26:VAL:HG12	1:AC:27:HIS:N	2.32	0.43
1:AC:144:PHE:CD2	1:AC:154:CYS:HB3	2.54	0.43
1:AD:55:HIS:O	1:AD:194:SER:HB2	2.18	0.43
1:AD:74:THR:O	1:AD:74:THR:HG22	2.19	0.43
1:AE:139:SER:HA	1:AE:140:PRO:HD3	1.62	0.43
1:AH:40:VAL:HB	1:AH:68:TRP:CH2	2.53	0.43
1:AI:110:GLY:H	1:AJ:242:ASN:ND2	2.12	0.43
1:AL:181:LYS:O	1:AL:182:ALA:CB	2.66	0.43
1:AM:22:VAL:HG12	1:AM:23:ASP:N	2.33	0.43
1:AM:40:VAL:HB	1:AM:68:TRP:CH2	2.54	0.43
1:AM:65:GLN:HG2	1:AM:70:ARG:HD2	2.01	0.43
1:AN:187:LEU:HD13	1:AN:187:LEU:C	2.44	0.43
1:AO:92:THR:HB	1:AO:93:THR:H	1.62	0.43
1:AP:55:HIS:O	1:AP:194:SER:HB2	2.18	0.43
1:AP:184:TYR:HE2	2:CP:139:ALA:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:106:TRP:CZ2	1:AQ:158:VAL:HG13	2.54	0.43
1:AR:52:PRO:HD3	1:AR:115:THR:O	2.17	0.43
1:AS:106:TRP:CZ2	1:AS:158:VAL:HG13	2.54	0.43
1:AT:187:LEU:C	1:AT:187:LEU:HD13	2.44	0.43
1:AV:110:GLY:H	1:AW:242:ASN:ND2	2.12	0.43
1:AV:146:ILE:O	1:AV:146:ILE:HG22	2.17	0.43
1:AX:30:VAL:CG1	1:AX:218:MET:HE3	2.33	0.43
1:AX:74:THR:HG22	1:AX:74:THR:O	2.19	0.43
1:AX:144:PHE:CD2	1:AX:154:CYS:HB3	2.54	0.43
1:AY:72:LEU:O	1:AY:75:CYS:SG	2.76	0.43
1:AY:143:VAL:H	3:D0:14:PHE:CB	2.28	0.43
1:AZ:172:ASN:HB2	2:C0:132:TYR:O	2.19	0.43
1:AZ:220:CYS:HA	1:AZ:221:PRO:HD2	1.82	0.43
1:Aa:184:TYR:HE2	2:Cc:139:ALA:HB3	1.84	0.43
1:Ab:26:VAL:HG12	1:Ab:27:HIS:N	2.32	0.43
1:Ab:234:LYS:HA	1:Ab:234:LYS:HD3	1.89	0.43
1:Ac:74:THR:O	1:Ac:74:THR:HG22	2.19	0.43
1:Ac:184:TYR:HE2	2:Ce:139:ALA:HB3	1.84	0.43
1:Ad:115:THR:HG23	1:Ad:133:LEU:N	2.25	0.43
1:Ad:146:ILE:HG22	1:Ad:146:ILE:O	2.18	0.43
1:Ae:144:PHE:CD2	1:Ae:154:CYS:HB3	2.54	0.43
1:Af:62:SER:O	1:Af:63:THR:CB	2.66	0.43
1:Af:143:VAL:H	3:Di:14:PHE:CB	2.28	0.43
1:Af:181:LYS:O	1:Af:182:ALA:CB	2.66	0.43
1:Ag:199:SER:C	1:Ag:201:ALA:H	2.25	0.43
1:Ah:26:VAL:HG12	1:Ah:27:HIS:N	2.32	0.43
1:Ah:101:PHE:O	1:Ah:199:SER:OG	2.33	0.43
1:Ah:146:ILE:HG22	1:Ah:146:ILE:O	2.17	0.43
1:Ah:201:ALA:O	1:Ah:202:HIS:HD2	2.01	0.43
1:Ai:62:SER:O	1:Ai:63:THR:CB	2.66	0.43
1:Ai:101:PHE:CD2	1:Ai:143:VAL:HG11	2.44	0.43
1:Ai:109:VAL:HG22	1:Ai:191:HIS:HD2	1.82	0.43
1:Aj:103:TRP:CZ2	1:Ak:208:TYR:CE2	3.06	0.43
1:Ak:26:VAL:HG12	1:Ak:27:HIS:N	2.32	0.43
1:Al:72:LEU:O	1:Al:75:CYS:SG	2.76	0.43
1:Ao:74:THR:O	1:Ao:74:THR:HG22	2.19	0.43
1:Ao:187:LEU:HD13	1:Ao:187:LEU:C	2.44	0.43
1:Ao:201:ALA:O	1:Ao:202:HIS:CD2	2.71	0.43
1:BA:74:THR:HG22	1:BA:74:THR:O	2.19	0.43
1:BA:174:TRP:HB2	2:Cp:188:LEU:CD2	2.44	0.43
1:BB:201:ALA:O	1:BB:202:HIS:CD2	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:92:THR:HB	1:BC:93:THR:H	1.62	0.43
1:BE:65:GLN:HG2	1:BE:70:ARG:HD2	2.01	0.43
1:BF:55:HIS:O	1:BF:194:SER:HB2	2.18	0.43
1:BG:199:SER:C	1:BG:201:ALA:H	2.24	0.43
2:C0:22:THR:O	2:C0:22:THR:HG23	2.18	0.43
2:C0:84:PRO:HD2	2:C0:186:LEU:CD2	2.48	0.43
2:C1:22:THR:O	2:C1:22:THR:HG23	2.19	0.43
2:C3:34:TYR:HA	2:C3:174:VAL:O	2.18	0.43
2:C4:49:ASP:HA	2:C4:50:PRO:HD2	1.81	0.43
2:C5:57:THR:O	2:C5:59:SER:N	2.52	0.43
2:C5:103:LEU:HD21	3:D6:163:PRO:HD3	2.01	0.43
2:C5:117:SER:HB3	3:DG:192:THR:CG2	2.47	0.43
2:C6:57:THR:O	2:C6:58:LEU:CB	2.66	0.43
2:C6:58:LEU:HB3	2:C6:59:SER:H	1.65	0.43
2:C8:65:LYS:CB	3:D9:135:ARG:HH21	2.29	0.43
2:C8:129:VAL:HA	2:C8:130:PRO:HD3	1.77	0.43
2:C9:54:LEU:HD21	2:C9:97:VAL:HG11	1.99	0.43
2:C9:57:THR:O	2:C9:59:SER:N	2.52	0.43
2:CA:56:PRO:C	2:CA:57:THR:O	2.59	0.43
2:CB:57:THR:O	2:CB:59:SER:N	2.52	0.43
2:CG:57:THR:HG22	2:CG:58:LEU:H	1.82	0.43
2:CH:55:GLY:HA2	2:CH:56:PRO:HD3	1.80	0.43
2:CI:22:THR:HG23	2:CI:22:THR:O	2.18	0.43
2:CK:69:TRP:CZ3	2:CK:124:LEU:HD11	2.52	0.43
2:CK:84:PRO:HD2	2:CK:186:LEU:CD2	2.48	0.43
2:CL:22:THR:HG23	2:CL:22:THR:O	2.18	0.43
2:CL:152:TYR:CE1	3:DL:60:PRO:CG	3.01	0.43
2:CN:54:LEU:HB2	2:CN:220:ALA:HB3	1.99	0.43
2:CP:34:TYR:HA	2:CP:174:VAL:O	2.18	0.43
2:CQ:57:THR:O	2:CQ:59:SER:N	2.52	0.43
2:CR:25:ASN:O	2:CR:26:SER:HB3	2.18	0.43
2:CS:22:THR:O	2:CS:22:THR:HG23	2.18	0.43
2:CS:103:LEU:HD21	3:DT:163:PRO:HD3	2.01	0.43
2:CT:83:LEU:HA	2:CT:84:PRO:HA	1.60	0.43
2:CU:116:ALA:N	3:Dg:119:LYS:NZ	2.66	0.43
2:CU:160:HIS:HE2	3:DU:51:TYR:HE1	1.65	0.43
2:CU:207:GLN:HB3	3:Dg:196:ILE:HG21	2.01	0.43
2:CV:65:LYS:CB	3:DB:135:ARG:HH21	2.29	0.43
2:CW:22:THR:HG23	2:CW:22:THR:O	2.18	0.43
2:CY:207:GLN:HB3	3:DZ:196:ILE:HG21	2.01	0.43
2:CZ:157:VAL:HG23	3:DZ:50:THR:HG21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ca:103:LEU:HD21	3:Db:163:PRO:HD3	2.01	0.43
2:Cb:84:PRO:HD2	2:Cb:186:LEU:CD2	2.48	0.43
2:Ce:22:THR:O	2:Ce:22:THR:HG23	2.18	0.43
2:Ce:84:PRO:HD2	2:Ce:186:LEU:CD2	2.48	0.43
2:Cf:78:ALA:HB1	2:Cf:195:VAL:HG12	1.99	0.43
2:Ch:25:ASN:O	2:Ch:26:SER:HB3	2.18	0.43
2:Ch:27:GLN:C	2:Ch:27:GLN:CD	2.87	0.43
2:Ch:49:ASP:HA	2:Ch:50:PRO:HD2	1.80	0.43
2:Ci:42:ARG:HA	2:Ci:43:PRO:HD2	1.64	0.43
2:Cj:152:TYR:CE1	3:Dj:60:PRO:CG	3.01	0.43
2:Ck:125:CYS:SG	2:Ck:160:HIS:HD2	2.40	0.43
2:Ck:152:TYR:CE1	3:Dk:60:PRO:CG	3.01	0.43
2:Ck:207:GLN:HB3	3:Da:196:ILE:HG21	2.01	0.43
2:Cm:25:ASN:O	2:Cm:26:SER:HB3	2.18	0.43
2:Cn:116:ALA:N	3:De:119:LYS:NZ	2.66	0.43
2:Co:42:ARG:HA	2:Co:43:PRO:HD2	1.64	0.43
2:Co:54:LEU:HD21	2:Co:97:VAL:HG11	1.99	0.43
2:Cq:57:THR:HG22	2:Cq:58:LEU:H	1.82	0.43
2:Cs:157:VAL:HG23	3:Ds:50:THR:HG21	1.99	0.43
2:Ct:54:LEU:HD21	2:Ct:97:VAL:HG11	1.99	0.43
2:Cv:27:GLN:C	2:Cv:27:GLN:CD	2.87	0.43
2:Cv:207:GLN:HB3	3:Dd:196:ILE:HG21	2.01	0.43
2:Cx:49:ASP:HA	2:Cx:50:PRO:HD2	1.80	0.43
3:D9:179:VAL:HG12	3:D9:181:GLY:N	2.32	0.43
3:DC:101:ARG:HH12	3:DC:165:ASP:HB3	1.84	0.43
3:DC:179:VAL:HG12	3:DC:181:GLY:N	2.32	0.43
3:DD:119:LYS:O	3:DD:120:PHE:CB	2.67	0.43
3:DG:121:LEU:C	3:DG:121:LEU:CD2	2.89	0.43
3:DI:75:GLN:NE2	3:DI:184:GLN:OE1	2.49	0.43
3:DJ:134:THR:OG1	3:DJ:137:GLU:HG3	2.17	0.43
3:DK:179:VAL:HG12	3:DK:181:GLY:N	2.32	0.43
3:DL:119:LYS:O	3:DL:120:PHE:CB	2.67	0.43
3:DN:79:SER:O	3:DN:81:SER:N	2.51	0.43
3:DR:103:SER:HB3	3:DR:159:PRO:CA	2.35	0.43
3:DV:119:LYS:O	3:DV:120:PHE:CB	2.67	0.43
3:DZ:8:VAL:CG1	3:DZ:9:PRO:HD2	2.39	0.43
3:Dc:119:LYS:O	3:Dc:120:PHE:CB	2.67	0.43
3:Dc:175:THR:OG1	3:Dc:178:ASN:ND2	2.51	0.43
3:Dj:119:LYS:O	3:Dj:120:PHE:CB	2.67	0.43
3:DI:8:VAL:CG1	3:DI:9:PRO:HD2	2.39	0.43
3:DI:101:ARG:HG2	3:DI:101:ARG:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dr:79:SER:O	3:Dr:81:SER:N	2.51	0.43
3:Ds:43:PHE:O	3:Ds:44:ILE:C	2.60	0.43
3:EA:8:VAL:CG1	3:EA:9:PRO:HD2	2.39	0.43
3:EC:8:VAL:CG1	3:EC:9:PRO:HD2	2.39	0.43
3:ED:8:VAL:CG1	3:ED:9:PRO:HD2	2.40	0.43
4:F2:18:SER:O	4:F2:23:GLN:NE2	2.52	0.43
4:F6:18:SER:O	4:F6:23:GLN:NE2	2.52	0.43
4:F9:18:SER:O	4:F9:23:GLN:NE2	2.52	0.43
4:FR:18:SER:O	4:FR:23:GLN:NE2	2.52	0.43
4:FS:18:SER:O	4:FS:23:GLN:NE2	2.52	0.43
4:FX:18:SER:O	4:FX:23:GLN:NE2	2.52	0.43
4:Fb:18:SER:O	4:Fb:23:GLN:NE2	2.52	0.43
1:A1:201:ALA:O	1:A1:202:HIS:CD2	2.71	0.43
1:A3:62:SER:O	1:A3:63:THR:CB	2.66	0.43
1:A3:181:LYS:O	1:A3:182:ALA:CB	2.66	0.43
1:A4:146:ILE:O	1:A4:146:ILE:HG22	2.17	0.43
1:A4:172:ASN:HB2	2:C5:132:TYR:O	2.19	0.43
1:A5:144:PHE:CD2	1:A5:154:CYS:HB3	2.54	0.43
1:A6:172:ASN:HB2	2:C7:132:TYR:O	2.19	0.43
1:A7:144:PHE:CD2	1:A7:154:CYS:HB3	2.54	0.43
1:A8:181:LYS:O	1:A8:182:ALA:CB	2.66	0.43
1:A9:74:THR:HG22	1:A9:74:THR:O	2.19	0.43
1:A9:146:ILE:HG22	1:A9:146:ILE:O	2.17	0.43
1:A9:181:LYS:O	1:A9:182:ALA:CB	2.66	0.43
1:AA:43:LEU:HD23	1:AA:43:LEU:H	1.81	0.43
1:AD:172:ASN:HB2	2:CD:132:TYR:O	2.19	0.43
1:AE:170:PHE:CD2	1:AE:222:ARG:CZ	2.87	0.43
1:AF:187:LEU:HD13	1:AF:187:LEU:C	2.44	0.43
1:AG:26:VAL:HG12	1:AG:27:HIS:N	2.32	0.43
1:AH:22:VAL:HG12	1:AH:23:ASP:N	2.33	0.43
1:AH:62:SER:O	1:AH:63:THR:CB	2.66	0.43
1:AH:65:GLN:HG2	1:AH:70:ARG:HD2	2.01	0.43
1:AH:103:TRP:CZ2	1:AI:208:TYR:CE2	3.06	0.43
1:AH:187:LEU:HD13	1:AH:187:LEU:C	2.44	0.43
1:AI:109:VAL:HG22	1:AI:191:HIS:HD2	1.82	0.43
1:AJ:219:TYR:HD2	3:DJ:39:ARG:HB2	1.79	0.43
1:AK:65:GLN:HG2	1:AK:70:ARG:HD2	2.01	0.43
1:AK:103:TRP:CZ2	1:AL:208:TYR:CE2	3.06	0.43
1:AK:146:ILE:O	1:AK:146:ILE:HG22	2.17	0.43
1:AL:187:LEU:HD13	1:AL:187:LEU:C	2.44	0.43
1:AN:106:TRP:CZ2	1:AN:158:VAL:HG13	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:220:CYS:HA	1:AN:221:PRO:HD2	1.82	0.43
1:AO:144:PHE:CD2	1:AO:154:CYS:HB3	2.54	0.43
1:AP:65:GLN:HG2	1:AP:70:ARG:HD2	2.01	0.43
1:AP:101:PHE:O	1:AP:199:SER:OG	2.33	0.43
1:AP:172:ASN:HB2	2:CP:132:TYR:O	2.19	0.43
1:AQ:172:ASN:HB2	2:CQ:132:TYR:O	2.19	0.43
1:AQ:187:LEU:HD13	1:AQ:187:LEU:C	2.44	0.43
1:AQ:234:LYS:HA	1:AQ:234:LYS:HD3	1.89	0.43
1:AS:62:SER:O	1:AS:63:THR:CB	2.66	0.43
1:AS:72:LEU:O	1:AS:75:CYS:SG	2.76	0.43
1:AS:74:THR:O	1:AS:74:THR:HG22	2.19	0.43
1:AS:172:ASN:HB2	2:CT:132:TYR:O	2.19	0.43
1:AT:146:ILE:O	1:AT:146:ILE:HG22	2.17	0.43
1:AU:72:LEU:O	1:AU:75:CYS:SG	2.76	0.43
1:AU:181:LYS:O	1:AU:182:ALA:CB	2.66	0.43
1:AW:101:PHE:CD2	1:AW:143:VAL:HG11	2.44	0.43
1:AW:121:LEU:HD21	1:AX:206:GLY:CA	2.47	0.43
1:AX:187:LEU:HD13	1:AX:187:LEU:C	2.44	0.43
1:AY:40:VAL:HB	1:AY:68:TRP:CH2	2.54	0.43
1:Ab:201:ALA:O	1:Ab:202:HIS:HD2	2.01	0.43
1:Ac:201:ALA:O	1:Ac:202:HIS:HD2	2.01	0.43
1:Af:43:LEU:HD23	1:Af:43:LEU:H	1.81	0.43
1:Af:172:ASN:HB2	2:Ch:132:TYR:O	2.19	0.43
1:Af:201:ALA:O	1:Af:202:HIS:HD2	2.01	0.43
1:Af:225:PRO:HA	1:Af:226:PRO:HD2	1.88	0.43
1:Ag:40:VAL:HB	1:Ag:68:TRP:CH2	2.53	0.43
1:Ag:65:GLN:HG2	1:Ag:70:ARG:HD2	2.01	0.43
1:Ag:146:ILE:HD13	1:Ag:146:ILE:HG21	1.74	0.43
1:Ag:187:LEU:HD13	1:Ag:187:LEU:C	2.44	0.43
1:Ah:72:LEU:O	1:Ah:75:CYS:SG	2.76	0.43
1:Ai:201:ALA:O	1:Ai:202:HIS:HD2	2.01	0.43
1:Aj:72:LEU:O	1:Aj:75:CYS:SG	2.76	0.43
1:Aj:187:LEU:C	1:Aj:187:LEU:HD13	2.44	0.43
1:Ak:74:THR:O	1:Ak:74:THR:HG22	2.19	0.43
1:Al:26:VAL:HG12	1:Al:27:HIS:N	2.32	0.43
1:Al:106:TRP:CZ2	1:Al:158:VAL:HG13	2.54	0.43
1:Al:143:VAL:H	3:Dj:14:PHE:CB	2.28	0.43
1:Am:40:VAL:HB	1:Am:68:TRP:CH2	2.53	0.43
1:Am:43:LEU:HD23	1:Am:43:LEU:H	1.81	0.43
1:Am:206:GLY:CA	1:BD:121:LEU:HD21	2.47	0.43
1:An:52:PRO:HD3	1:An:115:THR:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:An:65:GLN:HG2	1:An:70:ARG:HD2	2.01	0.43
1:Ao:144:PHE:CD2	1:Ao:154:CYS:HB3	2.54	0.43
1:BA:101:PHE:CD2	1:BA:143:VAL:CG1	2.91	0.43
1:BB:43:LEU:HD23	1:BB:43:LEU:H	1.81	0.43
1:BB:144:PHE:CD2	1:BB:154:CYS:HB3	2.54	0.43
1:BC:22:VAL:HG12	1:BC:23:ASP:N	2.33	0.43
1:BC:65:GLN:HG2	1:BC:70:ARG:HD2	2.01	0.43
1:BC:201:ALA:O	1:BC:202:HIS:HD2	2.01	0.43
1:BD:181:LYS:O	1:BD:182:ALA:CB	2.66	0.43
1:BD:187:LEU:HD13	1:BD:187:LEU:C	2.44	0.43
1:BE:181:LYS:O	1:BE:182:ALA:CB	2.66	0.43
1:BH:40:VAL:HB	1:BH:68:TRP:CH2	2.53	0.43
2:C1:152:TYR:CE1	3:D1:60:PRO:CG	3.01	0.43
2:C2:116:ALA:N	3:Dh:119:LYS:NZ	2.66	0.43
2:C2:212:THR:HG23	3:Dh:188:LEU:HD22	1.96	0.43
2:C3:57:THR:O	2:C3:58:LEU:CB	2.66	0.43
2:C3:65:LYS:CB	3:DU:135:ARG:HH21	2.29	0.43
2:C3:116:ALA:N	3:DU:119:LYS:NZ	2.66	0.43
2:C4:22:THR:HG23	2:C4:22:THR:O	2.18	0.43
2:C4:116:ALA:N	3:EC:119:LYS:NZ	2.66	0.43
2:C5:42:ARG:HA	2:C5:43:PRO:HD2	1.64	0.43
2:C5:55:GLY:HA2	2:C5:56:PRO:HD3	1.80	0.43
2:C8:116:ALA:N	3:D9:119:LYS:NZ	2.66	0.43
2:C9:42:ARG:HA	2:C9:43:PRO:HD2	1.64	0.43
2:C9:78:ALA:HB1	2:C9:195:VAL:HG12	1.99	0.43
2:C9:116:ALA:N	3:DI:119:LYS:NZ	2.66	0.43
2:CA:54:LEU:HD21	2:CA:97:VAL:HG11	1.99	0.43
2:CA:84:PRO:HD2	2:CA:186:LEU:CD2	2.48	0.43
2:CB:73:GLN:HA	2:CB:73:GLN:NE2	2.17	0.43
2:CD:152:TYR:HB3	2:CD:197:LEU:HD22	2.00	0.43
2:CD:157:VAL:HG23	3:DD:50:THR:HG21	1.99	0.43
2:CE:13:ARG:HD3	2:CE:13:ARG:HA	1.72	0.43
2:CE:22:THR:O	2:CE:22:THR:HG23	2.18	0.43
2:CE:57:THR:O	2:CE:59:SER:N	2.52	0.43
2:CF:83:LEU:HA	2:CF:84:PRO:HA	1.59	0.43
2:CF:116:ALA:N	3:D6:119:LYS:NZ	2.66	0.43
2:CG:13:ARG:HA	2:CG:13:ARG:HD3	1.72	0.43
2:CH:25:ASN:O	2:CH:26:SER:HB3	2.18	0.43
2:CJ:22:THR:HG23	2:CJ:22:THR:O	2.19	0.43
2:CJ:103:LEU:HD21	3:DF:163:PRO:HD3	2.01	0.43
2:CK:57:THR:HG22	2:CK:58:LEU:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CK:152:TYR:HB3	2:CK:197:LEU:HD22	2.00	0.43
2:CK:207:GLN:HB3	3:Db:196:ILE:HG21	2.01	0.43
2:CP:117:SER:HB3	3:D1:192:THR:CG2	2.47	0.43
2:CQ:27:GLN:CD	2:CQ:27:GLN:C	2.87	0.43
2:CQ:57:THR:O	2:CQ:58:LEU:CB	2.66	0.43
2:CQ:116:ALA:N	3:Dp:119:LYS:NZ	2.66	0.43
2:CR:57:THR:O	2:CR:59:SER:N	2.52	0.43
2:CR:84:PRO:HD2	2:CR:186:LEU:CD2	2.48	0.43
2:CR:152:TYR:CE1	3:DR:60:PRO:CG	3.01	0.43
2:CS:57:THR:O	2:CS:59:SER:N	2.52	0.43
2:CT:22:THR:HG23	2:CT:22:THR:O	2.19	0.43
2:CT:34:TYR:HA	2:CT:174:VAL:O	2.18	0.43
2:CT:57:THR:O	2:CT:59:SER:N	2.52	0.43
2:CT:207:GLN:HB3	3:DK:196:ILE:HG21	2.01	0.43
2:CV:49:ASP:HA	2:CV:50:PRO:HD2	1.80	0.43
2:CW:34:TYR:HA	2:CW:174:VAL:O	2.18	0.43
2:CW:152:TYR:HB3	2:CW:197:LEU:HD22	2.00	0.43
2:CY:134:HIS:HB3	2:CY:135:THR:H	1.46	0.43
2:CZ:27:GLN:CD	2:CZ:27:GLN:C	2.87	0.43
2:CZ:57:THR:O	2:CZ:59:SER:N	2.52	0.43
2:Ca:152:TYR:OH	3:Da:60:PRO:HD3	2.17	0.43
2:Cc:207:GLN:HB3	3:ED:196:ILE:HG21	2.01	0.43
2:Cc:27:GLN:CD	2:Cc:27:GLN:C	2.87	0.43
2:Cc:34:TYR:HA	2:Cc:174:VAL:O	2.18	0.43
2:Cc:57:THR:HG22	2:Cc:58:LEU:H	1.82	0.43
2:Cf:34:TYR:HA	2:Cf:174:VAL:O	2.18	0.43
2:Cf:116:ALA:N	3:DV:119:LYS:NZ	2.66	0.43
2:Ci:22:THR:O	2:Ci:22:THR:HG23	2.18	0.43
2:Cj:34:TYR:HA	2:Cj:174:VAL:O	2.18	0.43
2:Ck:25:ASN:O	2:Ck:26:SER:HB3	2.18	0.43
2:Ck:57:THR:O	2:Ck:58:LEU:CB	2.66	0.43
2:Ck:57:THR:O	2:Ck:59:SER:N	2.52	0.43
2:Cl:57:THR:HG22	2:Cl:58:LEU:H	1.82	0.43
2:Cm:152:TYR:HB3	2:Cm:197:LEU:HD22	2.00	0.43
2:Cn:84:PRO:HD2	2:Cn:186:LEU:CD2	2.48	0.43
2:Co:27:GLN:CD	2:Co:27:GLN:C	2.87	0.43
2:Co:57:THR:O	2:Co:59:SER:N	2.52	0.43
2:Co:84:PRO:HD2	2:Co:186:LEU:CD2	2.48	0.43
2:Cp:39:PRO:HB3	2:Cp:176:PRO:HA	1.99	0.43
2:Cp:49:ASP:HA	2:Cp:50:PRO:HD2	1.80	0.43
2:Cr:116:ALA:N	3:DI:119:LYS:NZ	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cu:152:TYR:OH	3:EB:60:PRO:HD3	2.17	0.43
2:Cu:207:GLN:HB3	3:D5:196:ILE:HG21	2.01	0.43
2:Cv:22:THR:HG23	2:Cv:22:THR:O	2.18	0.43
2:Cv:152:TYR:HB3	2:Cv:197:LEU:HD22	2.00	0.43
2:Cv:152:TYR:OH	3:EC:60:PRO:HD3	2.17	0.43
2:Cw:57:THR:O	2:Cw:59:SER:N	2.52	0.43
2:Cw:77:HIS:HE1	2:Cw:144:GLU:HG2	1.84	0.43
2:Cw:207:GLN:HB3	3:DS:196:ILE:HG21	2.01	0.43
3:D4:119:LYS:O	3:D4:120:PHE:CB	2.67	0.43
3:D5:97:PHE:HB3	3:D5:218:HIS:O	2.17	0.43
3:D7:119:LYS:O	3:D7:120:PHE:CB	2.67	0.43
3:D9:8:VAL:CG1	3:D9:9:PRO:HD2	2.40	0.43
3:DB:43:PHE:O	3:DB:44:ILE:C	2.60	0.43
3:DH:160:TYR:CD1	3:DH:160:TYR:C	2.94	0.43
3:DI:121:LEU:C	3:DI:121:LEU:CD2	2.89	0.43
3:DK:101:ARG:HH12	3:DK:165:ASP:HB3	1.84	0.43
3:DL:101:ARG:HH12	3:DL:165:ASP:HB3	1.84	0.43
3:DR:79:SER:O	3:DR:81:SER:N	2.51	0.43
3:DR:121:LEU:C	3:DR:121:LEU:CD2	2.89	0.43
3:DV:101:ARG:HH12	3:DV:165:ASP:HB3	1.84	0.43
3:DV:179:VAL:HG12	3:DV:181:GLY:N	2.32	0.43
3:DW:56:ILE:CG1	3:DW:74:PHE:CE1	2.98	0.43
3:DW:179:VAL:HG12	3:DW:181:GLY:N	2.33	0.43
3:DZ:119:LYS:O	3:DZ:120:PHE:CB	2.67	0.43
3:DZ:175:THR:OG1	3:DZ:178:ASN:ND2	2.51	0.43
3:Da:97:PHE:HB3	3:Da:218:HIS:O	2.17	0.43
3:Da:119:LYS:O	3:Da:120:PHE:CB	2.67	0.43
3:De:217:ARG:HD3	3:De:218:HIS:CD2	2.54	0.43
3:Dh:7:SER:OG	3:Dh:11:SER:HB3	2.17	0.43
3:Dh:79:SER:O	3:Dh:81:SER:N	2.51	0.43
3:Di:86:HIS:ND1	3:Di:86:HIS:C	2.77	0.43
3:Dk:217:ARG:HD3	3:Dk:218:HIS:CD2	2.54	0.43
3:Dn:119:LYS:O	3:Dn:120:PHE:CB	2.67	0.43
3:Dn:175:THR:OG1	3:Dn:178:ASN:ND2	2.51	0.43
3:Dq:75:GLN:NE2	3:Dq:184:GLN:OE1	2.49	0.43
3:Dr:43:PHE:O	3:Dr:44:ILE:C	2.60	0.43
3:Dr:119:LYS:O	3:Dr:120:PHE:CB	2.67	0.43
3:Ds:101:ARG:HG2	3:Ds:101:ARG:O	2.17	0.43
3:EC:101:ARG:HH12	3:EC:165:ASP:HB3	1.84	0.43
3:EC:119:LYS:O	3:EC:120:PHE:CB	2.67	0.43
3:EC:121:LEU:C	3:EC:121:LEU:CD2	2.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:217:ARG:HD3	3:ED:218:HIS:CD2	2.54	0.43
3:EE:217:ARG:HD3	3:EE:218:HIS:CD2	2.54	0.43
4:FA:18:SER:O	4:FA:23:GLN:NE2	2.52	0.43
4:FO:18:SER:O	4:FO:23:GLN:NE2	2.52	0.43
4:FP:18:SER:O	4:FP:23:GLN:NE2	2.52	0.43
4:Ft:18:SER:O	4:Ft:23:GLN:NE2	2.52	0.43
1:A0:146:ILE:HG22	1:A0:146:ILE:O	2.17	0.43
1:A1:110:GLY:H	1:A2:242:ASN:ND2	2.12	0.43
1:A1:187:LEU:HD13	1:A1:187:LEU:C	2.44	0.43
1:A2:72:LEU:O	1:A2:75:CYS:SG	2.76	0.43
1:A3:172:ASN:HB2	2:C4:132:TYR:O	2.19	0.43
1:A3:201:ALA:O	1:A3:202:HIS:HD2	2.01	0.43
1:A4:74:THR:O	1:A4:74:THR:HG22	2.19	0.43
1:A4:144:PHE:CD2	1:A4:154:CYS:HB3	2.54	0.43
1:A5:146:ILE:O	1:A5:146:ILE:HG22	2.17	0.43
1:A6:184:TYR:HE2	2:C7:139:ALA:HB3	1.84	0.43
1:A8:74:THR:HG22	1:A8:74:THR:O	2.19	0.43
1:A8:103:TRP:CZ2	1:A9:208:TYR:CE2	3.06	0.43
1:A8:172:ASN:HB2	2:C9:132:TYR:O	2.19	0.43
1:A9:144:PHE:CD2	1:A9:154:CYS:HB3	2.54	0.43
1:AD:143:VAL:H	3:DE:14:PHE:CB	2.28	0.43
1:AE:65:GLN:HG2	1:AE:70:ARG:HD2	2.01	0.43
1:AE:106:TRP:CZ2	1:AE:158:VAL:HG13	2.54	0.43
1:AE:184:TYR:HE2	2:CE:139:ALA:HB3	1.84	0.43
1:AF:22:VAL:HG12	1:AF:23:ASP:N	2.33	0.43
1:AF:225:PRO:HA	1:AF:226:PRO:HD2	1.87	0.43
1:AG:172:ASN:HB2	2:CG:132:TYR:O	2.19	0.43
1:AG:187:LEU:HD13	1:AG:187:LEU:C	2.44	0.43
1:AH:106:TRP:CZ2	1:AH:158:VAL:HG13	2.54	0.43
1:AJ:184:TYR:HE2	2:CJ:139:ALA:HB3	1.84	0.43
1:AK:49:THR:HG22	1:AK:50:GLY:H	1.82	0.43
1:AK:106:TRP:CZ2	1:AK:158:VAL:HG13	2.54	0.43
1:AK:172:ASN:HB2	2:CK:132:TYR:O	2.19	0.43
1:AN:40:VAL:HB	1:AN:68:TRP:CH2	2.53	0.43
1:AN:65:GLN:HG2	1:AN:70:ARG:HD2	2.01	0.43
1:AO:106:TRP:CZ2	1:AO:158:VAL:HG13	2.54	0.43
1:AP:72:LEU:O	1:AP:75:CYS:SG	2.76	0.43
1:AR:65:GLN:HG2	1:AR:70:ARG:HD2	2.01	0.43
1:AS:187:LEU:C	1:AS:187:LEU:HD13	2.44	0.43
1:AT:172:ASN:HB2	2:CU:132:TYR:O	2.19	0.43
1:AT:208:TYR:CE2	1:AX:103:TRP:CZ2	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:144:PHE:CD2	1:AU:154:CYS:HB3	2.54	0.43
1:AV:187:LEU:HD13	1:AV:187:LEU:C	2.44	0.43
1:AW:65:GLN:HG2	1:AW:70:ARG:HD2	2.01	0.43
1:AW:146:ILE:O	1:AW:146:ILE:HG22	2.17	0.43
1:AW:172:ASN:HB2	2:CX:132:TYR:O	2.19	0.43
1:AW:201:ALA:O	1:AW:202:HIS:CD2	2.71	0.43
1:AX:22:VAL:HG12	1:AX:23:ASP:N	2.32	0.43
1:AY:199:SER:C	1:AY:201:ALA:H	2.25	0.43
1:AZ:40:VAL:HB	1:AZ:68:TRP:CH2	2.53	0.43
1:AZ:43:LEU:HD23	1:AZ:43:LEU:H	1.81	0.43
1:AZ:184:TYR:HE2	2:C0:139:ALA:HB3	1.84	0.43
1:Aa:106:TRP:CZ2	1:Aa:158:VAL:HG13	2.54	0.43
1:Aa:144:PHE:CD2	1:Aa:154:CYS:HB3	2.54	0.43
1:Ab:201:ALA:O	1:Ab:202:HIS:CD2	2.71	0.43
1:Ad:72:LEU:O	1:Ad:75:CYS:SG	2.76	0.43
1:Ae:115:THR:HG23	1:Ae:133:LEU:N	2.25	0.43
1:Ae:172:ASN:HB2	2:Cg:132:TYR:O	2.19	0.43
1:Ae:201:ALA:O	1:Ae:202:HIS:HD2	2.01	0.43
1:Ah:40:VAL:HB	1:Ah:68:TRP:CH2	2.53	0.43
1:Aj:74:THR:O	1:Aj:74:THR:HG22	2.19	0.43
1:Aj:172:ASN:HB2	2:Cl:132:TYR:O	2.19	0.43
1:Ak:172:ASN:HB2	2:Cm:132:TYR:O	2.19	0.43
1:Ak:174:TRP:HB2	2:Cm:188:LEU:CD2	2.44	0.43
1:Ak:181:LYS:O	1:Ak:182:ALA:CB	2.66	0.43
1:Al:74:THR:O	1:Al:74:THR:HG22	2.19	0.43
1:Am:103:TRP:CZ2	1:BA:208:TYR:CE2	3.06	0.43
1:Am:144:PHE:CD2	1:Am:154:CYS:HB3	2.54	0.43
1:Ao:115:THR:HG23	1:Ao:133:LEU:N	2.25	0.43
1:BA:22:VAL:HG12	1:BA:23:ASP:N	2.33	0.43
1:BA:144:PHE:CD2	1:BA:154:CYS:HB3	2.54	0.43
1:BA:172:ASN:HB2	2:Cp:132:TYR:O	2.19	0.43
1:BC:55:HIS:O	1:BC:194:SER:HB2	2.18	0.43
1:BC:72:LEU:O	1:BC:75:CYS:SG	2.76	0.43
1:BC:74:THR:O	1:BC:74:THR:HG22	2.19	0.43
1:BD:144:PHE:CD2	1:BD:154:CYS:HB3	2.54	0.43
1:BE:72:LEU:O	1:BE:75:CYS:SG	2.76	0.43
1:BE:172:ASN:HB2	2:Ct:132:TYR:O	2.19	0.43
1:BG:72:LEU:O	1:BG:75:CYS:SG	2.76	0.43
1:BG:74:THR:O	1:BG:74:THR:HG22	2.19	0.43
1:BG:137:GLY:HA2	1:BH:38:PHE:CD1	2.49	0.43
1:BG:181:LYS:O	1:BG:182:ALA:CB	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:144:PHE:CD2	1:BI:154:CYS:HB3	2.54	0.43
1:BI:172:ASN:HB2	2:Cx:132:TYR:O	2.19	0.43
2:C2:22:THR:O	2:C2:22:THR:HG23	2.19	0.43
2:C2:157:VAL:HG23	3:D2:50:THR:HG21	1.99	0.43
2:C3:27:GLN:CD	2:C3:27:GLN:C	2.87	0.43
2:C3:57:THR:O	2:C3:59:SER:N	2.52	0.43
2:C4:103:LEU:HD21	3:D5:163:PRO:HD3	2.01	0.43
2:C5:63:THR:CG2	3:DG:188:LEU:HD21	2.47	0.43
2:C5:134:HIS:HB3	2:C5:135:THR:H	1.46	0.43
2:C6:84:PRO:HD2	2:C6:186:LEU:CD2	2.48	0.43
2:C8:73:GLN:HA	2:C8:73:GLN:NE2	2.17	0.43
2:CB:13:ARG:HD3	2:CB:13:ARG:HA	1.72	0.43
2:CB:152:TYR:CE1	3:DB:60:PRO:CG	3.01	0.43
2:CC:22:THR:HG23	2:CC:22:THR:O	2.19	0.43
2:CC:207:GLN:HB3	3:Dn:196:ILE:HG21	2.01	0.43
2:CD:27:GLN:CD	2:CD:27:GLN:C	2.87	0.43
2:CE:54:LEU:HB2	2:CE:220:ALA:HB3	1.99	0.43
2:CF:39:PRO:HB3	2:CF:176:PRO:HA	1.99	0.43
2:CG:57:THR:O	2:CG:59:SER:N	2.52	0.43
2:CI:13:ARG:HA	2:CI:13:ARG:HD3	1.72	0.43
2:CI:157:VAL:HG23	3:DI:50:THR:HG21	1.99	0.43
2:CJ:27:GLN:C	2:CJ:27:GLN:CD	2.87	0.43
2:CJ:49:ASP:HA	2:CJ:50:PRO:HD2	1.80	0.43
2:CK:103:LEU:HD21	3:DL:163:PRO:HD3	2.01	0.43
2:CL:57:THR:O	2:CL:59:SER:N	2.52	0.43
2:CM:152:TYR:HB3	2:CM:197:LEU:HD22	2.00	0.43
2:CN:36:TYR:CE2	2:CN:130:PRO:CG	2.98	0.43
2:CP:46:THR:CG2	3:DQ:165:ASP:HA	2.38	0.43
2:CP:212:THR:HG23	3:D1:188:LEU:HD22	1.96	0.43
2:CQ:117:SER:HB3	3:Dp:192:THR:CG2	2.48	0.43
2:CQ:152:TYR:CE1	3:DQ:60:PRO:CG	3.01	0.43
2:CS:152:TYR:CE1	3:DS:60:PRO:CG	3.01	0.43
2:CS:152:TYR:OH	3:DS:60:PRO:HD3	2.17	0.43
2:CS:207:GLN:HB3	3:Dc:196:ILE:HG21	2.01	0.43
2:CT:25:ASN:O	2:CT:26:SER:HB3	2.18	0.43
2:CT:54:LEU:HD21	2:CT:97:VAL:HG11	1.99	0.43
2:CU:65:LYS:CB	3:Dg:135:ARG:HH21	2.29	0.43
2:CV:57:THR:O	2:CV:59:SER:N	2.52	0.43
2:CV:77:HIS:HE1	2:CV:144:GLU:HG2	1.84	0.43
2:CV:117:SER:HB3	3:DB:192:THR:CG2	2.48	0.43
2:CX:27:GLN:CD	2:CX:27:GLN:C	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:84:PRO:HD2	2:CX:186:LEU:CD2	2.48	0.43
2:CY:13:ARG:HD3	2:CY:13:ARG:HA	1.72	0.43
2:CY:54:LEU:HB2	2:CY:220:ALA:HB3	1.99	0.43
2:CZ:129:VAL:HA	2:CZ:130:PRO:HD3	1.78	0.43
2:CZ:152:TYR:CE1	3:DZ:60:PRO:CG	3.01	0.43
2:Ca:39:PRO:HB3	2:Ca:176:PRO:HA	2.00	0.43
2:Cc:153:GLN:NE2	3:Dc:55:SER:CB	2.80	0.43
2:Cd:77:HIS:HE1	2:Cd:144:GLU:HG2	1.84	0.43
2:Ce:77:HIS:HE1	2:Ce:144:GLU:HG2	1.84	0.43
2:Ce:115:ASN:HD22	3:DC:190:ALA:C	2.17	0.43
2:Ch:57:THR:O	2:Ch:59:SER:N	2.52	0.43
2:Ci:57:THR:O	2:Ci:59:SER:N	2.52	0.43
2:Ci:77:HIS:HE1	2:Ci:144:GLU:HG2	1.84	0.43
2:Cj:25:ASN:O	2:Cj:26:SER:HB3	2.18	0.43
2:Cj:55:GLY:HA2	2:Cj:56:PRO:HD3	1.80	0.43
2:Cj:57:THR:O	2:Cj:59:SER:N	2.52	0.43
2:Cm:39:PRO:HB3	2:Cm:176:PRO:HA	2.00	0.43
2:Cm:129:VAL:HA	2:Cm:130:PRO:HD3	1.77	0.43
2:Cm:152:TYR:OH	3:Dm:60:PRO:HD3	2.17	0.43
2:Cm:207:GLN:HB3	3:DD:196:ILE:HG21	2.01	0.43
2:Co:116:ALA:N	3:DR:119:LYS:NZ	2.66	0.43
2:Cp:77:HIS:HE1	2:Cp:144:GLU:HG2	1.84	0.43
2:Cq:57:THR:O	2:Cq:59:SER:N	2.52	0.43
2:Cs:57:THR:O	2:Cs:59:SER:N	2.52	0.43
2:Cs:57:THR:HG22	2:Cs:58:LEU:H	1.82	0.43
2:Cu:27:GLN:C	2:Cu:27:GLN:CD	2.87	0.43
2:Cu:34:TYR:HA	2:Cu:174:VAL:O	2.18	0.43
2:Cu:54:LEU:HB2	2:Cu:220:ALA:HB3	1.99	0.43
2:Cw:117:SER:HB3	3:DS:192:THR:CG2	2.47	0.43
2:Cx:34:TYR:HA	2:Cx:174:VAL:O	2.18	0.43
2:Cx:84:PRO:HD2	2:Cx:186:LEU:CD2	2.48	0.43
3:D0:36:VAL:HA	3:D0:37:PRO:HD3	1.53	0.43
3:D5:79:SER:O	3:D5:81:SER:N	2.51	0.43
3:D6:217:ARG:HD3	3:D6:218:HIS:CD2	2.54	0.43
3:D8:217:ARG:HD3	3:D8:218:HIS:CD2	2.54	0.43
3:DC:101:ARG:O	3:DC:101:ARG:HG2	2.17	0.43
3:DF:119:LYS:O	3:DF:120:PHE:CB	2.67	0.43
3:DI:79:SER:O	3:DI:81:SER:N	2.51	0.43
3:DK:43:PHE:O	3:DK:44:ILE:C	2.60	0.43
3:DL:179:VAL:HG12	3:DL:181:GLY:N	2.33	0.43
3:DO:8:VAL:CG1	3:DO:9:PRO:HD2	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DR:119:LYS:O	3:DR:120:PHE:CB	2.67	0.43
3:DS:86:HIS:ND1	3:DS:86:HIS:C	2.77	0.43
3:DU:119:LYS:O	3:DU:120:PHE:CB	2.67	0.43
3:Db:86:HIS:ND1	3:Db:86:HIS:C	2.76	0.43
3:De:79:SER:O	3:De:81:SER:N	2.51	0.43
3:De:119:LYS:O	3:De:120:PHE:CB	2.67	0.43
3:Dl:179:VAL:HG12	3:Dl:181:GLY:N	2.32	0.43
3:Dl:217:ARG:HD3	3:Dl:218:HIS:CD2	2.54	0.43
3:Dm:119:LYS:O	3:Dm:120:PHE:CB	2.67	0.43
3:Dp:98:ALA:HB2	3:Dp:220:VAL:HG21	2.01	0.43
3:EB:217:ARG:HD3	3:EB:218:HIS:CD2	2.54	0.43
3:EC:79:SER:O	3:EC:81:SER:N	2.51	0.43
4:FC:29:GLN:HB2	4:FC:30:TYR:HD1	1.84	0.43
4:FI:32:ASN:HB3	4:FI:33:SER:H	1.58	0.43
4:FK:18:SER:O	4:FK:23:GLN:NE2	2.52	0.43
4:FL:18:SER:O	4:FL:23:GLN:NE2	2.52	0.43
4:FQ:18:SER:O	4:FQ:23:GLN:NE2	2.52	0.43
4:FT:18:SER:O	4:FT:23:GLN:NE2	2.52	0.43
4:FW:18:SER:O	4:FW:23:GLN:NE2	2.52	0.43
4:Fo:18:SER:O	4:Fo:23:GLN:NE2	2.52	0.43
4:Fu:18:SER:O	4:Fu:23:GLN:NE2	2.52	0.43
1:A0:172:ASN:HB2	2:C1:132:TYR:O	2.19	0.43
1:A0:208:TYR:CE2	1:AZ:103:TRP:CZ2	3.06	0.43
1:A2:62:SER:O	1:A2:63:THR:CB	2.66	0.43
1:A2:144:PHE:CD2	1:A2:154:CYS:HB3	2.54	0.43
1:A4:22:VAL:HG12	1:A4:23:ASP:N	2.33	0.43
1:A4:187:LEU:C	1:A4:187:LEU:HD13	2.44	0.43
1:A5:103:TRP:CZ2	1:A6:208:TYR:CE2	3.06	0.43
1:A5:184:TYR:HE2	2:C6:139:ALA:HB3	1.84	0.43
1:A7:101:PHE:CD2	1:A7:143:VAL:CG1	2.91	0.43
1:A7:143:VAL:H	3:D4:14:PHE:CB	2.28	0.43
1:A8:62:SER:O	1:A8:63:THR:CB	2.66	0.43
1:AA:128:VAL:O	1:AA:128:VAL:HG13	2.19	0.43
1:AA:144:PHE:CD2	1:AA:154:CYS:HB3	2.54	0.43
1:AA:184:TYR:HE2	2:CA:139:ALA:HB3	1.84	0.43
1:AD:65:GLN:HG2	1:AD:70:ARG:HD2	2.01	0.43
1:AD:187:LEU:HD13	1:AD:187:LEU:C	2.44	0.43
1:AF:72:LEU:O	1:AF:75:CYS:SG	2.76	0.43
1:AH:121:LEU:HD21	1:AI:206:GLY:CA	2.47	0.43
1:AI:101:PHE:CD2	1:AI:143:VAL:CG1	2.91	0.43
1:AI:172:ASN:HB2	2:CI:132:TYR:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:128:VAL:O	1:AJ:128:VAL:HG13	2.19	0.43
1:AK:74:THR:O	1:AK:74:THR:HG22	2.19	0.43
1:AL:106:TRP:CZ2	1:AL:158:VAL:HG13	2.54	0.43
1:AL:146:ILE:HD13	1:AL:146:ILE:HG21	1.74	0.43
1:AL:184:TYR:HE2	2:CL:139:ALA:HB3	1.84	0.43
1:AN:26:VAL:HG12	1:AN:27:HIS:N	2.32	0.43
1:AN:62:SER:O	1:AN:63:THR:CB	2.66	0.43
1:AO:172:ASN:HB2	2:CO:132:TYR:O	2.19	0.43
1:AQ:72:LEU:O	1:AQ:75:CYS:SG	2.76	0.43
1:AS:144:PHE:CD2	1:AS:154:CYS:HB3	2.54	0.43
1:AS:174:TRP:HB2	2:CT:188:LEU:CD2	2.44	0.43
1:AS:181:LYS:O	1:AS:182:ALA:CB	2.66	0.43
1:AT:121:LEU:HD21	1:AU:206:GLY:CA	2.47	0.43
1:AU:184:TYR:HE2	2:CV:139:ALA:HB3	1.84	0.43
1:AW:49:THR:HG22	1:AW:50:GLY:H	1.82	0.43
1:AX:40:VAL:HB	1:AX:68:TRP:CH2	2.53	0.43
1:AY:110:GLY:H	1:AZ:242:ASN:ND2	2.12	0.43
1:Ab:49:THR:HG22	1:Ab:50:GLY:H	1.82	0.43
1:Ab:144:PHE:CD2	1:Ab:154:CYS:HB3	2.54	0.43
1:Ac:174:TRP:HB2	2:Ce:188:LEU:CD2	2.44	0.43
1:Ad:106:TRP:CZ2	1:Ad:158:VAL:HG13	2.54	0.43
1:Ad:172:ASN:HB2	2:Cf:132:TYR:O	2.19	0.43
1:Ae:62:SER:O	1:Ae:63:THR:CB	2.66	0.43
1:Ae:164:TRP:HE1	1:Ae:187:LEU:CD1	2.28	0.43
1:Af:187:LEU:HD13	1:Af:187:LEU:C	2.44	0.43
1:Ah:74:THR:O	1:Ah:74:THR:HG22	2.19	0.43
1:Ah:106:TRP:CZ2	1:Ah:158:VAL:HG13	2.54	0.43
1:Ai:40:VAL:HB	1:Ai:68:TRP:CH2	2.53	0.43
1:Ai:146:ILE:O	1:Ai:146:ILE:HG22	2.17	0.43
1:Aj:106:TRP:CZ2	1:Aj:158:VAL:HG13	2.54	0.43
1:Ak:92:THR:HB	1:Ak:93:THR:H	1.62	0.43
1:Al:201:ALA:O	1:Al:202:HIS:HD2	2.01	0.43
1:Am:62:SER:O	1:Am:63:THR:CB	2.66	0.43
1:An:106:TRP:CZ2	1:An:158:VAL:HG13	2.54	0.43
1:An:187:LEU:HD13	1:An:187:LEU:C	2.44	0.43
1:Ao:106:TRP:CZ2	1:Ao:158:VAL:HG13	2.54	0.43
1:BD:72:LEU:O	1:BD:75:CYS:SG	2.76	0.43
1:BE:184:TYR:HE2	2:Ct:139:ALA:HB3	1.84	0.43
1:BF:62:SER:HB2	1:BF:73:ASN:ND2	2.27	0.43
1:BF:137:GLY:HA2	1:BG:38:PHE:CD1	2.49	0.43
1:BF:234:LYS:HA	1:BF:234:LYS:HD3	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:7:ASP:O	1:BH:8:GLY:C	2.59	0.43
1:BH:55:HIS:O	1:BH:194:SER:HB2	2.18	0.43
2:C0:103:LEU:HD21	3:D1:163:PRO:HD3	2.01	0.43
2:C2:207:GLN:HB3	3:Dh:196:ILE:HG21	2.01	0.43
2:C3:13:ARG:HD3	2:C3:13:ARG:HA	1.72	0.43
2:C4:65:LYS:CB	3:EC:135:ARG:HH21	2.29	0.43
2:C6:25:ASN:O	2:C6:26:SER:HB3	2.18	0.43
2:C6:57:THR:O	2:C6:59:SER:N	2.52	0.43
2:C7:84:PRO:HD2	2:C7:186:LEU:CD2	2.48	0.43
2:C7:117:SER:HB3	3:Dm:192:THR:CG2	2.47	0.43
2:C8:22:THR:HG23	2:C8:22:THR:O	2.18	0.43
2:C8:84:PRO:HD2	2:C8:186:LEU:CD2	2.48	0.43
2:C9:39:PRO:HB3	2:C9:176:PRO:HA	1.99	0.43
2:CA:36:TYR:CE2	2:CA:130:PRO:CG	2.98	0.43
2:CB:22:THR:HG23	2:CB:22:THR:O	2.18	0.43
2:CB:117:SER:HB3	3:Df:192:THR:CG2	2.48	0.43
2:CF:152:TYR:CE1	3:DF:60:PRO:CG	3.01	0.43
2:CG:77:HIS:HE1	2:CG:144:GLU:HG2	1.84	0.43
2:CG:207:GLN:HB3	3:EB:196:ILE:HG21	2.01	0.43
2:CH:22:THR:O	2:CH:22:THR:HG23	2.19	0.43
2:CH:57:THR:O	2:CH:59:SER:N	2.52	0.43
2:CI:84:PRO:HD2	2:CI:186:LEU:CD2	2.48	0.43
2:CJ:25:ASN:O	2:CJ:26:SER:HB3	2.18	0.43
2:CK:27:GLN:CD	2:CK:27:GLN:C	2.87	0.43
2:CL:36:TYR:CE2	2:CL:130:PRO:CG	2.98	0.43
2:CL:84:PRO:HD2	2:CL:186:LEU:CD2	2.48	0.43
2:CM:27:GLN:CD	2:CM:27:GLN:C	2.87	0.43
2:CM:207:GLN:HB3	3:Di:196:ILE:HG21	2.01	0.43
2:CP:157:VAL:HG23	3:DP:50:THR:HG21	1.99	0.43
2:CP:207:GLN:HB3	3:D1:196:ILE:HG21	2.01	0.43
2:CQ:129:VAL:HA	2:CQ:130:PRO:HD3	1.78	0.43
2:CQ:207:GLN:HB3	3:Dp:196:ILE:HG21	2.01	0.43
2:CR:27:GLN:C	2:CR:27:GLN:CD	2.87	0.43
2:CR:77:HIS:HE1	2:CR:144:GLU:HG2	1.84	0.43
2:CT:46:THR:CG2	3:DP:165:ASP:HA	2.38	0.43
2:CT:152:TYR:CE1	3:DT:60:PRO:CG	3.01	0.43
2:CU:39:PRO:HB3	2:CU:176:PRO:HA	1.99	0.43
2:CU:57:THR:HG22	2:CU:58:LEU:H	1.82	0.43
2:CW:152:TYR:CE1	3:DW:60:PRO:CG	3.01	0.43
2:CY:77:HIS:HE1	2:CY:144:GLU:HG2	1.84	0.43
2:CY:103:LEU:HD21	3:DU:163:PRO:HD3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CZ:39:PRO:HB3	2:CZ:176:PRO:HA	1.99	0.43
2:Ca:57:THR:O	2:Ca:58:LEU:CB	2.66	0.43
2:Ca:152:TYR:HB3	2:Ca:197:LEU:HD22	2.00	0.43
2:Cb:25:ASN:O	2:Cb:26:SER:HB3	2.18	0.43
2:Cb:57:THR:O	2:Cb:58:LEU:CB	2.66	0.43
2:Cb:152:TYR:CE1	3:Db:60:PRO:CG	3.01	0.43
2:Cc:27:GLN:CD	2:Cc:27:GLN:C	2.87	0.43
2:Cc:152:TYR:HB3	2:Cc:197:LEU:HD22	2.00	0.43
2:Ce:216:ALA:HA	2:Ce:217:PRO:HD3	1.78	0.43
2:Cf:25:ASN:O	2:Cf:26:SER:HB3	2.18	0.43
2:Cf:84:PRO:HD2	2:Cf:186:LEU:CD2	2.48	0.43
2:Cf:157:VAL:HG23	3:Df:50:THR:HG21	1.99	0.43
2:Cg:22:THR:O	2:Cg:22:THR:HG23	2.18	0.43
2:Cg:157:VAL:HG23	3:Dg:50:THR:HG21	1.99	0.43
2:Cg:207:GLN:HB3	3:D3:196:ILE:HG21	2.01	0.43
2:Ch:22:THR:O	2:Ch:22:THR:HG23	2.18	0.43
2:Ch:207:GLN:HB3	3:DN:196:ILE:HG21	2.01	0.43
2:Cj:77:HIS:HE1	2:Cj:144:GLU:HG2	1.84	0.43
2:Ck:77:HIS:HE1	2:Ck:144:GLU:HG2	1.84	0.43
2:Cm:57:THR:O	2:Cm:59:SER:N	2.52	0.43
2:Cm:152:TYR:CE1	3:Dm:60:PRO:CG	3.01	0.43
2:Co:207:GLN:HB3	3:DR:196:ILE:HG21	2.01	0.43
2:Cp:46:THR:CG2	3:Dq:165:ASP:HA	2.38	0.43
2:Cr:134:HIS:HB3	2:Cr:135:THR:H	1.46	0.43
2:Cw:39:PRO:HB3	2:Cw:176:PRO:HA	1.99	0.43
3:D0:98:ALA:HB2	3:D0:220:VAL:HG21	2.01	0.43
3:D9:121:LEU:C	3:D9:121:LEU:CD2	2.89	0.43
3:DB:98:ALA:HB2	3:DB:220:VAL:HG21	2.01	0.43
3:DB:160:TYR:CD1	3:DB:160:TYR:C	2.94	0.43
3:DB:217:ARG:HD3	3:DB:218:HIS:CD2	2.54	0.43
3:DD:179:VAL:HG12	3:DD:181:GLY:N	2.32	0.43
3:DD:217:ARG:HD3	3:DD:218:HIS:CD2	2.54	0.43
3:DF:134:THR:OG1	3:DF:137:GLU:HG3	2.17	0.43
3:DG:119:LYS:O	3:DG:120:PHE:CB	2.67	0.43
3:DH:217:ARG:HD3	3:DH:218:HIS:CD2	2.54	0.43
3:DM:179:VAL:HG12	3:DM:181:GLY:N	2.33	0.43
3:DP:119:LYS:O	3:DP:120:PHE:CB	2.67	0.43
3:DT:119:LYS:O	3:DT:120:PHE:CB	2.67	0.43
3:DV:103:SER:HB3	3:DV:159:PRO:CA	2.35	0.43
3:DW:75:GLN:NE2	3:DW:184:GLN:OE1	2.48	0.43
3:Db:217:ARG:HD3	3:Db:218:HIS:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dc:36:VAL:HA	3:Dc:37:PRO:HD3	1.53	0.43
3:Dd:79:SER:O	3:Dd:81:SER:N	2.51	0.43
3:Df:7:SER:OG	3:Df:11:SER:HB3	2.17	0.43
3:Di:75:GLN:NE2	3:Di:184:GLN:OE1	2.49	0.43
3:Dk:43:PHE:O	3:Dk:44:ILE:C	2.60	0.43
3:Dk:86:HIS:ND1	3:Dk:86:HIS:C	2.76	0.43
3:Dr:101:ARG:O	3:Dr:101:ARG:HG2	2.17	0.43
3:Ds:23:THR:HA	3:Ds:24:PRO:HD3	1.89	0.43
4:FG:18:SER:O	4:FG:23:GLN:NE2	2.52	0.43
4:FH:18:SER:O	4:FH:23:GLN:NE2	2.52	0.43
4:FU:18:SER:O	4:FU:23:GLN:NE2	2.52	0.43
4:Fg:18:SER:O	4:Fg:23:GLN:NE2	2.52	0.43
1:A0:144:PHE:CD2	1:A0:154:CYS:HB3	2.54	0.43
1:A0:184:TYR:HE2	2:C1:139:ALA:HB3	1.84	0.43
1:A1:26:VAL:HG12	1:A1:27:HIS:N	2.32	0.43
1:A1:137:GLY:HA2	1:A2:38:PHE:CD1	2.49	0.43
1:A3:106:TRP:CZ2	1:A3:158:VAL:HG13	2.54	0.43
1:A4:72:LEU:O	1:A4:75:CYS:SG	2.76	0.43
1:A6:74:THR:HG22	1:A6:74:THR:O	2.19	0.43
1:A8:55:HIS:O	1:A8:194:SER:HB2	2.18	0.43
1:A8:128:VAL:O	1:A8:128:VAL:HG13	2.19	0.43
1:A9:172:ASN:HB2	2:Ca:132:TYR:O	2.19	0.43
1:AB:72:LEU:O	1:AB:75:CYS:SG	2.76	0.43
1:AC:121:LEU:HD21	1:AD:206:GLY:CA	2.47	0.43
1:AC:184:TYR:HE2	2:CC:139:ALA:HB3	1.84	0.43
1:AD:41:GLU:O	1:AD:42:THR:HB	2.19	0.43
1:AE:72:LEU:O	1:AE:75:CYS:SG	2.76	0.43
1:AE:74:THR:O	1:AE:74:THR:HG22	2.19	0.43
1:AG:74:THR:O	1:AG:74:THR:HG22	2.19	0.43
1:AG:170:PHE:CD2	1:AG:222:ARG:CZ	2.87	0.43
1:AG:184:TYR:HE2	2:CG:139:ALA:HB3	1.84	0.43
1:AI:187:LEU:C	1:AI:187:LEU:HD13	2.44	0.43
1:AJ:144:PHE:CD2	1:AJ:154:CYS:HB3	2.54	0.43
1:AM:181:LYS:O	1:AM:182:ALA:CB	2.66	0.43
1:AN:55:HIS:O	1:AN:194:SER:HB2	2.17	0.43
1:AO:40:VAL:HB	1:AO:68:TRP:CH2	2.54	0.43
1:AP:181:LYS:O	1:AP:182:ALA:CB	2.66	0.43
1:AQ:55:HIS:O	1:AQ:194:SER:HB2	2.18	0.43
1:AR:144:PHE:CD2	1:AR:154:CYS:HB3	2.54	0.43
1:AT:41:GLU:O	1:AT:42:THR:HB	2.19	0.43
1:AT:184:TYR:HE2	2:CU:139:ALA:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:65:GLN:HG2	1:AU:70:ARG:HD2	2.01	0.43
1:AU:106:TRP:CZ2	1:AU:158:VAL:HG13	2.54	0.43
1:AU:115:THR:HG23	1:AU:133:LEU:N	2.25	0.43
1:AV:22:VAL:HG12	1:AV:23:ASP:N	2.33	0.43
1:AY:62:SER:O	1:AY:63:THR:CB	2.66	0.43
1:AZ:55:HIS:O	1:AZ:194:SER:HB2	2.17	0.43
1:AZ:92:THR:HB	1:AZ:93:THR:H	1.62	0.43
1:AZ:144:PHE:CD2	1:AZ:154:CYS:HB3	2.54	0.43
1:Aa:74:THR:HG22	1:Aa:74:THR:O	2.19	0.43
1:Aa:181:LYS:O	1:Aa:182:ALA:CB	2.66	0.43
1:Ab:106:TRP:CZ2	1:Ab:158:VAL:HG13	2.54	0.43
1:Ab:170:PHE:CD2	1:Ab:222:ARG:CZ	2.87	0.43
1:Ab:181:LYS:O	1:Ab:182:ALA:CB	2.66	0.43
1:Ad:43:LEU:HD23	1:Ad:43:LEU:H	1.81	0.43
1:Ae:40:VAL:HB	1:Ae:68:TRP:CH2	2.53	0.43
1:Ae:106:TRP:CZ2	1:Ae:158:VAL:HG13	2.54	0.43
1:Af:40:VAL:HB	1:Af:68:TRP:CH2	2.53	0.43
1:Ag:143:VAL:H	3:De:14:PHE:CB	2.28	0.43
1:Ag:184:TYR:HE2	2:Ci:139:ALA:HB3	1.84	0.43
1:Ah:62:SER:O	1:Ah:63:THR:CB	2.66	0.43
1:Ak:106:TRP:CZ2	1:Ak:158:VAL:HG13	2.54	0.43
1:Al:65:GLN:HG2	1:Al:70:ARG:HD2	2.01	0.43
1:Ao:199:SER:C	1:Ao:201:ALA:H	2.25	0.43
1:Ao:219:TYR:HD2	3:DS:39:ARG:HB2	1.79	0.43
1:BB:40:VAL:HB	1:BB:68:TRP:CH2	2.53	0.43
1:BB:55:HIS:O	1:BB:194:SER:HB2	2.18	0.43
1:BB:62:SER:O	1:BB:63:THR:CB	2.66	0.43
1:BD:62:SER:O	1:BD:63:THR:CB	2.66	0.43
1:BE:49:THR:HG22	1:BE:50:GLY:H	1.82	0.43
1:BF:128:VAL:O	1:BF:128:VAL:HG13	2.19	0.43
1:BG:103:TRP:CZ2	1:BH:208:TYR:CE2	3.06	0.43
1:BG:187:LEU:HD13	1:BG:187:LEU:C	2.44	0.43
1:BH:65:GLN:HG2	1:BH:70:ARG:HD2	2.01	0.43
1:BH:115:THR:HG23	1:BH:133:LEU:N	2.25	0.43
2:C1:25:ASN:O	2:C1:26:SER:HB3	2.18	0.43
2:C3:25:ASN:O	2:C3:26:SER:HB3	2.18	0.43
2:C4:117:SER:HB3	3:EC:192:THR:CG2	2.47	0.43
2:C5:27:GLN:CD	2:C5:27:GLN:C	2.87	0.43
2:C7:13:ARG:HA	2:C7:13:ARG:HD3	1.72	0.43
2:C8:25:ASN:O	2:C8:26:SER:HB3	2.18	0.43
2:C9:22:THR:O	2:C9:22:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:27:GLN:CD	2:C9:27:GLN:C	2.87	0.43
2:C9:84:PRO:HD2	2:C9:186:LEU:CD2	2.48	0.43
2:CA:25:ASN:O	2:CA:26:SER:HB3	2.18	0.43
2:CA:55:GLY:HA2	2:CA:56:PRO:HD3	1.80	0.43
2:CC:25:ASN:O	2:CC:26:SER:HB3	2.18	0.43
2:CC:46:THR:CG2	3:DD:165:ASP:HA	2.38	0.43
2:CC:56:PRO:C	2:CC:57:THR:O	2.59	0.43
2:CE:57:THR:O	2:CE:58:LEU:CB	2.66	0.43
2:CF:58:LEU:HB3	2:CF:59:SER:H	1.65	0.43
2:CG:65:LYS:CB	3:EB:135:ARG:HH21	2.29	0.43
2:CM:129:VAL:HA	2:CM:130:PRO:HD3	1.78	0.43
2:CN:27:GLN:CD	2:CN:27:GLN:C	2.87	0.43
2:CP:77:HIS:HE1	2:CP:144:GLU:HG2	1.84	0.43
2:CQ:25:ASN:O	2:CQ:26:SER:HB3	2.18	0.43
2:CR:22:THR:O	2:CR:22:THR:HG23	2.18	0.43
2:CS:27:GLN:CD	2:CS:27:GLN:C	2.87	0.43
2:CU:27:GLN:CD	2:CU:27:GLN:C	2.87	0.43
2:CU:57:THR:O	2:CU:58:LEU:CB	2.66	0.43
2:CU:57:THR:O	2:CU:59:SER:N	2.52	0.43
2:CV:152:TYR:CE1	3:DV:60:PRO:CG	3.01	0.43
2:CV:207:GLN:HB3	3:DB:196:ILE:HG21	2.01	0.43
2:CW:103:LEU:HD21	3:DX:163:PRO:HD3	2.01	0.43
2:CW:117:SER:HB3	3:DJ:192:THR:CG2	2.47	0.43
2:CY:212:THR:HG23	3:DZ:188:LEU:HD22	1.96	0.43
2:Ca:25:ASN:O	2:Ca:26:SER:HB3	2.18	0.43
2:Ca:216:ALA:HA	2:Ca:217:PRO:HD3	1.78	0.43
2:Cb:57:THR:O	2:Cb:59:SER:N	2.52	0.43
2:Cc:22:THR:HG23	2:Cc:22:THR:O	2.19	0.43
2:Cd:57:THR:O	2:Cd:59:SER:N	2.52	0.43
2:Cf:134:HIS:HB3	2:Cf:135:THR:H	1.46	0.43
2:Ci:25:ASN:O	2:Ci:26:SER:HB3	2.18	0.43
2:Ci:103:LEU:HD21	3:De:163:PRO:HD3	2.01	0.43
2:Cj:54:LEU:HB2	2:Cj:220:ALA:HB3	1.99	0.43
2:Cj:207:GLN:HB3	3:DM:196:ILE:HG21	2.01	0.43
2:Ck:54:LEU:HD21	2:Ck:97:VAL:HG11	1.99	0.43
2:Ck:129:VAL:HA	2:Ck:130:PRO:HD3	1.78	0.43
2:Cn:57:THR:O	2:Cn:59:SER:N	2.52	0.43
2:Cn:69:TRP:HZ2	2:Cn:198:ILE:HG23	1.84	0.43
2:Co:55:GLY:HA2	2:Co:56:PRO:HD3	1.80	0.43
2:Cp:23:ILE:N	2:Cp:23:ILE:CD1	2.81	0.43
2:Cp:83:LEU:HA	2:Cp:84:PRO:HA	1.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cr:152:TYR:CE1	3:Dr:60:PRO:CG	3.01	0.43
2:Cv:77:HIS:HE1	2:Cv:144:GLU:HG2	1.84	0.43
2:Cx:57:THR:O	2:Cx:59:SER:N	2.52	0.43
3:D1:43:PHE:O	3:D1:44:ILE:C	2.60	0.43
3:D4:75:GLN:NE2	3:D4:184:GLN:OE1	2.49	0.43
3:D4:86:HIS:ND1	3:D4:86:HIS:C	2.77	0.43
3:D4:121:LEU:C	3:D4:121:LEU:CD2	2.89	0.43
3:D5:119:LYS:O	3:D5:120:PHE:CB	2.67	0.43
3:D8:119:LYS:O	3:D8:120:PHE:CB	2.67	0.43
3:DA:56:ILE:CG1	3:DA:74:PHE:CE1	2.98	0.43
3:DA:119:LYS:O	3:DA:120:PHE:CB	2.67	0.43
3:DE:179:VAL:HG12	3:DE:181:GLY:N	2.32	0.43
3:DE:217:ARG:HD3	3:DE:218:HIS:CD2	2.54	0.43
3:DH:86:HIS:ND1	3:DH:86:HIS:C	2.77	0.43
3:DI:103:SER:HB2	3:DI:159:PRO:HA	1.95	0.43
3:DJ:79:SER:O	3:DJ:81:SER:N	2.51	0.43
3:DM:217:ARG:HD3	3:DM:218:HIS:CD2	2.54	0.43
3:DN:101:ARG:HH12	3:DN:165:ASP:HB3	1.84	0.43
3:DQ:119:LYS:O	3:DQ:120:PHE:CB	2.67	0.43
3:DS:217:ARG:HD3	3:DS:218:HIS:CD2	2.54	0.43
3:DU:217:ARG:HD3	3:DU:218:HIS:CD2	2.54	0.43
3:DW:121:LEU:C	3:DW:121:LEU:CD2	2.89	0.43
3:DY:119:LYS:O	3:DY:120:PHE:CB	2.67	0.43
3:DY:217:ARG:HD3	3:DY:218:HIS:CD2	2.54	0.43
3:DZ:75:GLN:NE2	3:DZ:184:GLN:OE1	2.49	0.43
3:DZ:79:SER:O	3:DZ:81:SER:N	2.51	0.43
3:Dd:119:LYS:O	3:Dd:120:PHE:CB	2.67	0.43
3:Dg:98:ALA:HB2	3:Dg:220:VAL:HG21	2.01	0.43
3:Di:98:ALA:HB2	3:Di:220:VAL:HG21	2.01	0.43
3:Di:119:LYS:O	3:Di:120:PHE:CB	2.67	0.43
3:Dj:43:PHE:O	3:Dj:44:ILE:C	2.60	0.43
3:Dl:101:ARG:HH12	3:Dl:165:ASP:HB3	1.84	0.43
3:Dn:179:VAL:HG12	3:Dn:181:GLY:N	2.32	0.43
3:Dq:23:THR:HA	3:Dq:24:PRO:HD3	1.89	0.43
3:Dr:217:ARG:HD3	3:Dr:218:HIS:CD2	2.54	0.43
4:F2:29:GLN:HB2	4:F2:30:TYR:HD1	1.84	0.43
4:F3:18:SER:O	4:F3:23:GLN:NE2	2.52	0.43
4:FM:29:GLN:HB2	4:FM:30:TYR:HD1	1.84	0.43
4:FY:29:GLN:HB2	4:FY:30:TYR:HD1	1.84	0.43
4:Fa:32:ASN:HB3	4:Fa:33:SER:H	1.58	0.43
4:Fn:18:SER:O	4:Fn:23:GLN:NE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Fs:18:SER:O	4:Fs:23:GLN:NE2	2.52	0.43
4:Fw:18:SER:O	4:Fw:23:GLN:NE2	2.52	0.43
1:A0:22:VAL:HG12	1:A0:23:ASP:N	2.33	0.42
1:A0:139:SER:HA	1:A0:140:PRO:HD3	1.62	0.42
1:A1:170:PHE:HD2	1:A1:222:ARG:NH1	2.17	0.42
1:A2:52:PRO:HD3	1:A2:115:THR:O	2.17	0.42
1:A2:65:GLN:HG2	1:A2:70:ARG:HD2	2.01	0.42
1:A3:41:GLU:O	1:A3:42:THR:HB	2.19	0.42
1:A4:128:VAL:O	1:A4:128:VAL:HG13	2.19	0.42
1:A5:128:VAL:O	1:A5:128:VAL:HG13	2.19	0.42
1:A6:41:GLU:O	1:A6:42:THR:HB	2.19	0.42
1:A6:103:TRP:CZ2	1:A7:208:TYR:CE2	3.06	0.42
1:A6:106:TRP:CZ2	1:A6:158:VAL:HG13	2.54	0.42
1:A7:41:GLU:O	1:A7:42:THR:HB	2.19	0.42
1:A7:62:SER:O	1:A7:63:THR:CB	2.66	0.42
1:A8:201:ALA:O	1:A8:202:HIS:HD2	2.01	0.42
1:A9:187:LEU:HD13	1:A9:187:LEU:C	2.44	0.42
1:AA:106:TRP:CZ2	1:AA:158:VAL:HG13	2.54	0.42
1:AB:146:ILE:HG21	1:AB:146:ILE:HD13	1.74	0.42
1:AC:49:THR:HG22	1:AC:50:GLY:H	1.82	0.42
1:AC:74:THR:HG22	1:AC:74:THR:O	2.19	0.42
1:AD:87:GLN:O	1:AD:88:PHE:CB	2.62	0.42
1:AD:106:TRP:CZ2	1:AD:158:VAL:HG13	2.54	0.42
1:AE:41:GLU:O	1:AE:42:THR:HB	2.19	0.42
1:AE:225:PRO:HA	1:AE:226:PRO:HD2	1.88	0.42
1:AF:40:VAL:HB	1:AF:68:TRP:CH2	2.54	0.42
1:AF:144:PHE:CD2	1:AF:154:CYS:HB3	2.54	0.42
1:AG:239:PHE:CD2	3:DG:226:GLN:NE2	2.87	0.42
1:AJ:172:ASN:HB2	2:CJ:132:TYR:O	2.19	0.42
1:AM:184:TYR:HE2	2:CM:139:ALA:HB3	1.84	0.42
1:AN:172:ASN:HB2	2:CN:132:TYR:O	2.19	0.42
1:AN:184:TYR:HE2	2:CN:139:ALA:HB3	1.84	0.42
1:AO:22:VAL:HG12	1:AO:23:ASP:N	2.33	0.42
1:AO:115:THR:HG23	1:AO:133:LEU:N	2.25	0.42
1:AO:128:VAL:O	1:AO:128:VAL:HG13	2.19	0.42
1:AP:110:GLY:H	1:AQ:242:ASN:ND2	2.12	0.42
1:AQ:181:LYS:O	1:AQ:182:ALA:CB	2.66	0.42
1:AR:106:TRP:CZ2	1:AR:158:VAL:HG13	2.54	0.42
1:AR:172:ASN:HB2	2:CR:132:TYR:O	2.19	0.42
1:AT:164:TRP:HE1	1:AT:187:LEU:CD1	2.28	0.42
1:AU:172:ASN:HB2	2:CV:132:TYR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:174:TRP:HB2	2:CX:188:LEU:CD2	2.44	0.42
1:Aa:65:GLN:HG2	1:Aa:70:ARG:HD2	2.01	0.42
1:Aa:128:VAL:O	1:Aa:128:VAL:HG13	2.19	0.42
1:Aa:201:ALA:O	1:Aa:202:HIS:HD2	2.01	0.42
1:Ab:40:VAL:HB	1:Ab:68:TRP:CH2	2.53	0.42
1:Ab:170:PHE:HD2	1:Ab:222:ARG:NH1	2.17	0.42
1:Ab:239:PHE:CD2	3:Dd:226:GLN:NE2	2.87	0.42
1:Ac:103:TRP:CZ2	1:Ad:208:TYR:CE2	3.06	0.42
1:Ad:144:PHE:CD2	1:Ad:154:CYS:HB3	2.54	0.42
1:Ae:187:LEU:HD13	1:Ae:187:LEU:C	2.44	0.42
1:Af:106:TRP:CZ2	1:Af:158:VAL:HG13	2.54	0.42
1:Ag:41:GLU:O	1:Ag:42:THR:HB	2.19	0.42
1:Ag:239:PHE:CD2	3:Di:226:GLN:NE2	2.87	0.42
1:Ah:101:PHE:CD2	1:Ah:143:VAL:CG1	2.91	0.42
1:Ai:65:GLN:HG2	1:Ai:70:ARG:HD2	2.01	0.42
1:Ai:187:LEU:C	1:Ai:187:LEU:HD13	2.44	0.42
1:Aj:49:THR:HG22	1:Aj:50:GLY:H	1.82	0.42
1:Aj:170:PHE:HD2	1:Aj:222:ARG:NH1	2.18	0.42
1:Al:62:SER:O	1:Al:63:THR:CB	2.66	0.42
1:An:40:VAL:HB	1:An:68:TRP:CH2	2.53	0.42
1:An:144:PHE:CD2	1:An:154:CYS:HB3	2.54	0.42
1:Ao:72:LEU:O	1:Ao:75:CYS:SG	2.76	0.42
1:BA:239:PHE:CD2	3:Dp:226:GLN:NE2	2.87	0.42
1:BC:106:TRP:CZ2	1:BC:158:VAL:HG13	2.54	0.42
1:BC:144:PHE:CD2	1:BC:154:CYS:HB3	2.54	0.42
1:BC:172:ASN:HB2	2:Cr:132:TYR:O	2.19	0.42
1:BD:164:TRP:HE1	1:BD:187:LEU:CD1	2.28	0.42
1:BD:184:TYR:HE2	2:Cs:139:ALA:HB3	1.84	0.42
1:BE:22:VAL:HG12	1:BE:23:ASP:N	2.33	0.42
1:BE:144:PHE:CD2	1:BE:154:CYS:HB3	2.54	0.42
1:BE:187:LEU:HD13	1:BE:187:LEU:C	2.44	0.42
1:BF:109:VAL:HG22	1:BF:191:HIS:HD2	1.82	0.42
1:BF:144:PHE:CD2	1:BF:154:CYS:HB3	2.54	0.42
1:BI:62:SER:O	1:BI:63:THR:CB	2.66	0.42
2:C0:57:THR:O	2:C0:59:SER:N	2.52	0.42
2:C1:83:LEU:HA	2:C1:84:PRO:HA	1.60	0.42
2:C2:55:GLY:HA2	2:C2:56:PRO:HD3	1.80	0.42
2:C3:58:LEU:HB3	2:C3:59:SER:H	1.65	0.42
2:C5:22:THR:HG23	2:C5:22:THR:O	2.18	0.42
2:C8:56:PRO:C	2:C8:57:THR:O	2.59	0.42
2:CA:152:TYR:CE1	3:DA:60:PRO:CG	3.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:152:TYR:HB3	2:CB:197:LEU:HD22	2.00	0.42
2:CC:27:GLN:CD	2:CC:27:GLN:C	2.87	0.42
2:CC:57:THR:O	2:CC:59:SER:N	2.52	0.42
2:CD:46:THR:CG2	3:DE:165:ASP:HA	2.38	0.42
2:CD:117:SER:HB3	3:D7:192:THR:CG2	2.47	0.42
2:CE:77:HIS:HE1	2:CE:144:GLU:HG2	1.84	0.42
2:CF:77:HIS:HE1	2:CF:144:GLU:HG2	1.84	0.42
2:CG:27:GLN:C	2:CG:27:GLN:CD	2.87	0.42
2:CH:27:GLN:CD	2:CH:27:GLN:C	2.87	0.42
2:CH:65:LYS:CB	3:Ds:135:ARG:HH21	2.29	0.42
2:CK:116:ALA:N	3:Db:119:LYS:NZ	2.66	0.42
2:CL:57:THR:O	2:CL:58:LEU:CB	2.66	0.42
2:CL:207:GLN:HB3	3:Dk:196:ILE:HG21	2.01	0.42
2:CM:25:ASN:O	2:CM:26:SER:HB3	2.18	0.42
2:CM:209:VAL:O	2:CM:209:VAL:CG1	2.65	0.42
2:CO:57:THR:O	2:CO:58:LEU:CB	2.66	0.42
2:CO:57:THR:O	2:CO:59:SER:N	2.52	0.42
2:CO:152:TYR:CE1	3:DO:60:PRO:CG	3.01	0.42
2:CO:152:TYR:HB3	2:CO:197:LEU:HD22	2.00	0.42
2:CR:42:ARG:HA	2:CR:43:PRO:HD2	1.64	0.42
2:CT:152:TYR:HB3	2:CT:197:LEU:HD22	2.00	0.42
2:CU:216:ALA:HA	2:CU:217:PRO:HD3	1.78	0.42
2:CV:13:ARG:HD3	2:CV:13:ARG:HA	1.72	0.42
2:CY:56:PRO:C	2:CY:57:THR:O	2.59	0.42
2:Ca:57:THR:O	2:Ca:59:SER:N	2.52	0.42
2:Ca:57:THR:HG22	2:Ca:58:LEU:H	1.82	0.42
2:Cb:22:THR:HG23	2:Cb:22:THR:O	2.19	0.42
2:Cg:57:THR:O	2:Cg:59:SER:N	2.52	0.42
2:Cg:116:ALA:N	3:D3:119:LYS:NZ	2.66	0.42
2:Ci:116:ALA:N	3:Dj:119:LYS:NZ	2.66	0.42
2:Ck:65:LYS:CB	3:Da:135:ARG:HH21	2.29	0.42
2:Ck:69:TRP:HZ2	2:Ck:198:ILE:HG23	1.84	0.42
2:Cl:27:GLN:C	2:Cl:27:GLN:CD	2.87	0.42
2:Cl:58:LEU:HB3	2:Cl:59:SER:H	1.65	0.42
2:Cm:69:TRP:HZ2	2:Cm:198:ILE:HG23	1.84	0.42
2:Cm:116:ALA:N	3:DD:119:LYS:NZ	2.66	0.42
2:Cr:207:GLN:HB3	3:DI:196:ILE:HG21	2.01	0.42
2:Cs:103:LEU:HD21	3:Do:163:PRO:HD3	2.01	0.42
2:Ct:22:THR:HG23	2:Ct:22:THR:O	2.19	0.42
2:Cu:42:ARG:HA	2:Cu:43:PRO:HD2	1.64	0.42
2:Cu:117:SER:HB3	3:D5:192:THR:CG2	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cv:25:ASN:O	2:Cv:26:SER:HB3	2.18	0.42
2:Cw:57:THR:HG22	2:Cw:58:LEU:H	1.83	0.42
3:D2:98:ALA:HB2	3:D2:220:VAL:HG21	2.01	0.42
3:D7:103:SER:HB2	3:D7:159:PRO:HA	1.95	0.42
3:DA:79:SER:O	3:DA:81:SER:N	2.51	0.42
3:DA:217:ARG:HD3	3:DA:218:HIS:CD2	2.54	0.42
3:DD:98:ALA:HB2	3:DD:220:VAL:HG21	2.01	0.42
3:DE:103:SER:HB3	3:DE:159:PRO:CA	2.35	0.42
3:DE:119:LYS:O	3:DE:120:PHE:CB	2.67	0.42
3:DF:98:ALA:HB2	3:DF:220:VAL:HG21	2.01	0.42
3:DP:217:ARG:HD3	3:DP:218:HIS:CD2	2.54	0.42
3:DQ:101:ARG:HH12	3:DQ:165:ASP:HB3	1.84	0.42
3:DR:217:ARG:HD3	3:DR:218:HIS:CD2	2.54	0.42
3:DT:217:ARG:HD3	3:DT:218:HIS:CD2	2.54	0.42
3:DX:75:GLN:NE2	3:DX:184:GLN:OE1	2.49	0.42
3:DY:115:ALA:CB	3:DY:194:THR:OG1	2.67	0.42
3:Da:98:ALA:HB2	3:Da:220:VAL:HG21	2.01	0.42
3:Da:179:VAL:HG12	3:Da:181:GLY:N	2.32	0.42
3:Dd:8:VAL:CG1	3:Dd:9:PRO:HD2	2.40	0.42
3:Dd:98:ALA:HB2	3:Dd:220:VAL:HG21	2.01	0.42
3:Dh:119:LYS:O	3:Dh:120:PHE:CB	2.67	0.42
3:Dj:101:ARG:HH12	3:Dj:165:ASP:HB3	1.84	0.42
3:Dl:119:LYS:O	3:Dl:120:PHE:CB	2.67	0.42
3:Ds:79:SER:O	3:Ds:81:SER:N	2.51	0.42
3:Ds:98:ALA:HB2	3:Ds:220:VAL:HG21	2.01	0.42
3:EC:86:HIS:ND1	3:EC:86:HIS:C	2.77	0.42
3:ED:75:GLN:NE2	3:ED:184:GLN:OE1	2.49	0.42
3:ED:86:HIS:ND1	3:ED:86:HIS:C	2.77	0.42
3:EE:119:LYS:O	3:EE:120:PHE:CB	2.67	0.42
4:F7:18:SER:O	4:F7:23:GLN:NE2	2.52	0.42
4:FB:18:SER:O	4:FB:23:GLN:NE2	2.52	0.42
4:FC:18:SER:O	4:FC:23:GLN:NE2	2.52	0.42
4:FL:29:GLN:HB2	4:FL:30:TYR:HD1	1.84	0.42
4:Fg:29:GLN:HB2	4:Fg:30:TYR:HD1	1.84	0.42
4:Fi:18:SER:O	4:Fi:23:GLN:NE2	2.52	0.42
4:Fj:29:GLN:HB2	4:Fj:30:TYR:HD1	1.84	0.42
4:Fk:18:SER:O	4:Fk:23:GLN:NE2	2.52	0.42
4:Fk:29:GLN:HB2	4:Fk:30:TYR:HD1	1.84	0.42
4:Fp:18:SER:O	4:Fp:23:GLN:NE2	2.52	0.42
1:A0:106:TRP:CZ2	1:A0:158:VAL:HG13	2.54	0.42
1:A2:40:VAL:HB	1:A2:68:TRP:CH2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:74:THR:O	1:A2:74:THR:HG22	2.19	0.42
1:A3:40:VAL:HB	1:A3:68:TRP:CH2	2.54	0.42
1:A4:41:GLU:O	1:A4:42:THR:HB	2.19	0.42
1:A4:101:PHE:CD2	1:A4:143:VAL:CG1	2.91	0.42
1:A5:146:ILE:HD13	1:A5:146:ILE:HG21	1.74	0.42
1:A5:187:LEU:HD13	1:A5:187:LEU:C	2.44	0.42
1:A5:235:THR:HB	1:A5:236:ARG:H	1.65	0.42
1:A7:172:ASN:HB2	2:C8:132:TYR:O	2.19	0.42
1:A8:88:PHE:CA	1:A8:207:CYS:HA	2.48	0.42
1:A8:106:TRP:CZ2	1:A8:158:VAL:HG13	2.54	0.42
1:A9:106:TRP:CZ2	1:A9:158:VAL:HG13	2.54	0.42
1:AB:74:THR:O	1:AB:74:THR:HG22	2.19	0.42
1:AB:144:PHE:CD2	1:AB:154:CYS:HB3	2.54	0.42
1:AC:40:VAL:HB	1:AC:68:TRP:CH2	2.53	0.42
1:AC:41:GLU:O	1:AC:42:THR:HB	2.19	0.42
1:AC:172:ASN:HB2	2:CC:132:TYR:O	2.19	0.42
1:AD:128:VAL:O	1:AD:128:VAL:HG13	2.19	0.42
1:AD:170:PHE:HD2	1:AD:222:ARG:NH1	2.18	0.42
1:AD:219:TYR:HD2	3:DD:39:ARG:HB2	1.79	0.42
1:AE:172:ASN:HB2	2:CE:132:TYR:O	2.19	0.42
1:AE:175:GLY:N	1:AE:183:THR:O	2.53	0.42
1:AE:187:LEU:HD13	1:AE:187:LEU:C	2.44	0.42
1:AG:41:GLU:O	1:AG:42:THR:HB	2.20	0.42
1:AG:62:SER:O	1:AG:63:THR:CB	2.66	0.42
1:AG:144:PHE:CD2	1:AG:154:CYS:HB3	2.54	0.42
1:AG:225:PRO:HA	1:AG:226:PRO:HD2	1.88	0.42
1:AJ:187:LEU:C	1:AJ:187:LEU:HD13	2.44	0.42
1:AK:40:VAL:HB	1:AK:68:TRP:CH2	2.53	0.42
1:AK:72:LEU:O	1:AK:75:CYS:SG	2.76	0.42
1:AK:121:LEU:HD21	1:AL:206:GLY:CA	2.47	0.42
1:AK:144:PHE:CD2	1:AK:154:CYS:HB3	2.54	0.42
1:AL:72:LEU:O	1:AL:75:CYS:SG	2.76	0.42
1:AL:74:THR:HG22	1:AL:74:THR:O	2.19	0.42
1:AL:144:PHE:CD2	1:AL:154:CYS:HB3	2.54	0.42
1:AM:187:LEU:HD13	1:AM:187:LEU:C	2.44	0.42
1:AN:74:THR:HG22	1:AN:74:THR:O	2.19	0.42
1:AN:144:PHE:CD2	1:AN:154:CYS:HB3	2.54	0.42
1:AO:74:THR:HG22	1:AO:74:THR:O	2.19	0.42
1:AP:74:THR:HG22	1:AP:74:THR:O	2.19	0.42
1:AQ:62:SER:O	1:AQ:63:THR:CB	2.66	0.42
1:AQ:74:THR:O	1:AQ:74:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:40:VAL:HB	1:AR:68:TRP:CH2	2.53	0.42
1:AR:62:SER:O	1:AR:63:THR:CB	2.66	0.42
1:AS:40:VAL:HB	1:AS:68:TRP:CH2	2.53	0.42
1:AT:49:THR:HG22	1:AT:50:GLY:H	1.82	0.42
1:AV:65:GLN:HG2	1:AV:70:ARG:HD2	2.01	0.42
1:AV:174:TRP:HB2	2:CW:188:LEU:CD2	2.44	0.42
1:AW:62:SER:HB2	1:AW:73:ASN:ND2	2.27	0.42
1:AW:128:VAL:O	1:AW:128:VAL:HG13	2.19	0.42
1:AY:74:THR:HG22	1:AY:74:THR:O	2.19	0.42
1:AY:87:GLN:O	1:AY:88:PHE:CB	2.62	0.42
1:AY:172:ASN:HB2	2:CZ:132:TYR:O	2.19	0.42
1:AZ:65:GLN:HG2	1:AZ:70:ARG:HD2	2.01	0.42
1:AZ:106:TRP:CZ2	1:AZ:158:VAL:HG13	2.54	0.42
1:Aa:174:TRP:HB2	2:Cc:188:LEU:CD2	2.44	0.42
1:Ab:187:LEU:HD13	1:Ab:187:LEU:C	2.44	0.42
1:Ac:62:SER:O	1:Ac:63:THR:CB	2.66	0.42
1:Ac:172:ASN:HB2	2:Ce:132:TYR:O	2.19	0.42
1:Ad:22:VAL:HG12	1:Ad:23:ASP:N	2.33	0.42
1:Ad:184:TYR:HE2	2:Cf:139:ALA:HB3	1.84	0.42
1:Af:62:SER:HB2	1:Af:73:ASN:ND2	2.27	0.42
1:Ah:184:TYR:HE2	2:Cj:139:ALA:HB3	1.84	0.42
1:Ai:184:TYR:HE2	2:Ck:139:ALA:HB3	1.84	0.42
1:Ak:121:LEU:HD21	1:Al:206:GLY:CA	2.47	0.42
1:Al:170:PHE:HD2	1:Al:222:ARG:NH1	2.17	0.42
1:Am:220:CYS:HA	1:Am:221:PRO:HD2	1.82	0.42
1:BA:72:LEU:O	1:BA:75:CYS:SG	2.76	0.42
1:BB:41:GLU:O	1:BB:42:THR:HB	2.19	0.42
1:BC:143:VAL:H	3:Ds:14:PHE:CB	2.28	0.42
1:BC:219:TYR:HD2	3:Dr:39:ARG:HB2	1.78	0.42
1:BD:40:VAL:HB	1:BD:68:TRP:CH2	2.54	0.42
1:BD:101:PHE:O	1:BD:199:SER:OG	2.33	0.42
1:BE:106:TRP:CZ2	1:BE:158:VAL:HG13	2.54	0.42
1:BH:41:GLU:O	1:BH:42:THR:HB	2.19	0.42
1:BH:170:PHE:HD2	1:BH:222:ARG:NH1	2.17	0.42
1:BH:201:ALA:O	1:BH:202:HIS:HD2	2.01	0.42
2:C0:57:THR:O	2:C0:58:LEU:CB	2.66	0.42
2:C0:69:TRP:HZ2	2:C0:198:ILE:HG23	1.85	0.42
2:C0:129:VAL:HA	2:C0:130:PRO:HD3	1.78	0.42
2:C0:216:ALA:HA	2:C0:217:PRO:HD3	1.78	0.42
2:C1:103:LEU:HD21	3:D2:163:PRO:HD3	2.01	0.42
2:C6:77:HIS:HE1	2:C6:144:GLU:HG2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:115:ASN:C	3:DE:119:LYS:NZ	2.77	0.42
2:C7:46:THR:CG2	3:D8:165:ASP:HA	2.38	0.42
2:CD:57:THR:O	2:CD:59:SER:N	2.52	0.42
2:CE:103:LEU:HD21	3:DA:163:PRO:HD3	2.01	0.42
2:CF:129:VAL:HA	2:CF:130:PRO:HD3	1.78	0.42
2:CH:77:HIS:HE1	2:CH:144:GLU:HG2	1.84	0.42
2:CJ:57:THR:O	2:CJ:59:SER:N	2.52	0.42
2:CK:117:SER:HB3	3:Db:192:THR:CG2	2.48	0.42
2:CL:166:ARG:HD3	3:DL:110:PHE:O	2.20	0.42
2:CM:36:TYR:CE2	2:CM:130:PRO:CG	2.98	0.42
2:CM:77:HIS:HE1	2:CM:144:GLU:HG2	1.84	0.42
2:CN:152:TYR:HB3	2:CN:197:LEU:HD22	2.00	0.42
2:CQ:57:THR:HG22	2:CQ:58:LEU:H	1.82	0.42
2:CU:25:ASN:O	2:CU:26:SER:HB3	2.18	0.42
2:CV:39:PRO:HB3	2:CV:176:PRO:HA	2.00	0.42
2:CW:57:THR:O	2:CW:59:SER:N	2.52	0.42
2:CX:152:TYR:CE1	3:DY:60:PRO:CG	3.01	0.42
2:Ca:54:LEU:HB2	2:Ca:220:ALA:HB3	1.99	0.42
2:Ca:77:HIS:HE1	2:Ca:144:GLU:HG2	1.84	0.42
2:Ca:116:ALA:N	3:DL:119:LYS:NZ	2.66	0.42
2:Cc:57:THR:O	2:Cc:59:SER:N	2.52	0.42
2:Ce:57:THR:O	2:Ce:59:SER:N	2.52	0.42
2:Cf:13:ARG:HD3	2:Cf:13:ARG:HA	1.72	0.42
2:Ci:152:TYR:HB3	2:Ci:197:LEU:HD22	2.00	0.42
2:Cn:117:SER:HB3	3:De:192:THR:CG2	2.47	0.42
2:Co:135:THR:O	2:Co:137:GLU:N	2.53	0.42
2:Cp:69:TRP:HZ2	2:Cp:198:ILE:HG23	1.85	0.42
2:Cq:65:LYS:CB	3:DY:135:ARG:HH21	2.29	0.42
2:Cq:152:TYR:CE1	3:Dq:60:PRO:CG	3.01	0.42
2:Cr:57:THR:O	2:Cr:59:SER:N	2.52	0.42
2:Cu:152:TYR:CE1	3:EB:60:PRO:CG	3.01	0.42
2:Cu:209:VAL:O	2:Cu:209:VAL:CG1	2.65	0.42
2:Cv:212:THR:HG23	3:Dd:188:LEU:HD22	1.96	0.42
2:Cw:69:TRP:HZ2	2:Cw:198:ILE:HG23	1.85	0.42
2:Cx:152:TYR:CE1	3:EE:60:PRO:CG	3.01	0.42
3:D1:175:THR:HG1	3:D1:178:ASN:CG	2.28	0.42
3:D2:8:VAL:CG1	3:D2:9:PRO:HD2	2.39	0.42
3:D3:79:SER:O	3:D3:81:SER:N	2.51	0.42
3:D6:43:PHE:O	3:D6:44:ILE:C	2.60	0.42
3:D8:98:ALA:HB2	3:D8:220:VAL:HG21	2.01	0.42
3:DB:115:ALA:CB	3:DB:194:THR:OG1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:79:SER:O	3:DC:81:SER:N	2.51	0.42
3:DC:86:HIS:ND1	3:DC:86:HIS:C	2.77	0.42
3:DC:119:LYS:O	3:DC:120:PHE:CB	2.67	0.42
3:DG:79:SER:O	3:DG:81:SER:N	2.51	0.42
3:DH:43:PHE:O	3:DH:44:ILE:C	2.60	0.42
3:DH:101:ARG:HH12	3:DH:165:ASP:HB3	1.84	0.42
3:DI:217:ARG:HD3	3:DI:218:HIS:CD2	2.54	0.42
3:DU:79:SER:O	3:DU:81:SER:N	2.51	0.42
3:DU:86:HIS:ND1	3:DU:86:HIS:C	2.77	0.42
3:DV:43:PHE:O	3:DV:44:ILE:C	2.60	0.42
3:DV:86:HIS:ND1	3:DV:86:HIS:C	2.76	0.42
3:DW:86:HIS:ND1	3:DW:86:HIS:C	2.77	0.42
3:DW:115:ALA:CB	3:DW:194:THR:OG1	2.67	0.42
3:DW:160:TYR:C	3:DW:160:TYR:CD1	2.94	0.42
3:DX:119:LYS:O	3:DX:120:PHE:CB	2.67	0.42
3:DX:217:ARG:HD3	3:DX:218:HIS:CD2	2.54	0.42
3:Dc:8:VAL:CG1	3:Dc:9:PRO:HD2	2.40	0.42
3:Df:119:LYS:O	3:Df:120:PHE:CB	2.67	0.42
3:Dg:119:LYS:O	3:Dg:120:PHE:CB	2.67	0.42
3:Dh:179:VAL:HG12	3:Dh:181:GLY:N	2.32	0.42
3:Di:23:THR:HA	3:Di:24:PRO:HD3	1.89	0.42
3:Dk:103:SER:HB2	3:Dk:159:PRO:HA	1.95	0.42
3:DI:121:LEU:C	3:DI:121:LEU:CD2	2.89	0.42
3:EB:121:LEU:C	3:EB:121:LEU:CD2	2.89	0.42
3:ED:98:ALA:HB2	3:ED:220:VAL:HG21	2.01	0.42
3:ED:101:ARG:HH12	3:ED:165:ASP:HB3	1.84	0.42
3:EE:98:ALA:HB2	3:EE:220:VAL:HG21	2.01	0.42
4:F5:18:SER:O	4:F5:23:GLN:NE2	2.52	0.42
4:F6:29:GLN:HB2	4:F6:30:TYR:HD1	1.84	0.42
4:FC:32:ASN:HB3	4:FC:33:SER:H	1.58	0.42
4:FJ:18:SER:O	4:FJ:23:GLN:NE2	2.52	0.42
4:FN:18:SER:O	4:FN:23:GLN:NE2	2.52	0.42
4:FR:31:GLN:HE21	4:FR:31:GLN:HA	1.85	0.42
4:FS:29:GLN:HB2	4:FS:30:TYR:HD1	1.84	0.42
4:FT:29:GLN:HB2	4:FT:30:TYR:HD1	1.84	0.42
4:FW:29:GLN:HB2	4:FW:30:TYR:HD1	1.84	0.42
4:Ff:18:SER:O	4:Ff:23:GLN:NE2	2.52	0.42
4:Ff:29:GLN:HB2	4:Ff:30:TYR:HD1	1.84	0.42
4:Fi:29:GLN:HB2	4:Fi:30:TYR:HD1	1.84	0.42
4:Fu:29:GLN:HB2	4:Fu:30:TYR:HD1	1.84	0.42
4:Fx:18:SER:O	4:Fx:23:GLN:NE2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Fx:29:GLN:HB2	4:Fx:30:TYR:HD1	1.84	0.42
1:A0:103:TRP:CZ2	1:A1:208:TYR:CE2	3.06	0.42
1:A0:128:VAL:O	1:A0:128:VAL:HG13	2.19	0.42
1:A1:106:TRP:CZ2	1:A1:158:VAL:HG13	2.54	0.42
1:A1:128:VAL:HG13	1:A1:128:VAL:O	2.19	0.42
1:A2:106:TRP:CZ2	1:A2:158:VAL:HG13	2.54	0.42
1:A4:43:LEU:HD23	1:A4:43:LEU:H	1.81	0.42
1:A4:234:LYS:HA	1:A4:234:LYS:HD3	1.89	0.42
1:A6:107:PHE:CE1	1:A6:196:LEU:HB2	2.55	0.42
1:A6:187:LEU:HD13	1:A6:187:LEU:C	2.44	0.42
1:A8:144:PHE:CD2	1:A8:154:CYS:HB3	2.54	0.42
1:AA:92:THR:HB	1:AA:93:THR:H	1.62	0.42
1:AA:208:TYR:CE2	1:AE:103:TRP:CZ2	3.06	0.42
1:AC:55:HIS:O	1:AC:194:SER:HB2	2.18	0.42
1:AC:107:PHE:CE1	1:AC:196:LEU:HB2	2.55	0.42
1:AD:22:VAL:HG12	1:AD:23:ASP:N	2.33	0.42
1:AD:72:LEU:O	1:AD:75:CYS:SG	2.76	0.42
1:AE:55:HIS:O	1:AE:194:SER:HB2	2.17	0.42
1:AI:49:THR:CG2	1:AI:50:GLY:N	2.83	0.42
1:AI:175:GLY:N	1:AI:183:THR:O	2.53	0.42
1:AK:92:THR:HB	1:AK:93:THR:H	1.62	0.42
1:AK:101:PHE:CD2	1:AK:143:VAL:CG1	2.90	0.42
1:AM:144:PHE:CD2	1:AM:154:CYS:HB3	2.54	0.42
1:AN:41:GLU:O	1:AN:42:THR:HB	2.19	0.42
1:AN:107:PHE:CE1	1:AN:196:LEU:HB2	2.55	0.42
1:AO:239:PHE:CD2	3:DO:226:GLN:NE2	2.87	0.42
1:AP:41:GLU:O	1:AP:42:THR:HB	2.19	0.42
1:AP:187:LEU:HD13	1:AP:187:LEU:C	2.44	0.42
1:AQ:65:GLN:HG2	1:AQ:70:ARG:HD2	2.01	0.42
1:AQ:146:ILE:HG22	1:AQ:146:ILE:O	2.17	0.42
1:AS:107:PHE:CE1	1:AS:196:LEU:HB2	2.55	0.42
1:AT:107:PHE:CE1	1:AT:196:LEU:HB2	2.55	0.42
1:AW:72:LEU:O	1:AW:75:CYS:SG	2.76	0.42
1:AW:144:PHE:CD2	1:AW:154:CYS:HB3	2.54	0.42
1:AW:187:LEU:HD13	1:AW:187:LEU:C	2.44	0.42
1:AY:184:TYR:HE2	2:CZ:139:ALA:HB3	1.84	0.42
1:AZ:72:LEU:O	1:AZ:75:CYS:SG	2.76	0.42
1:Ab:172:ASN:HB2	2:Cd:132:TYR:O	2.19	0.42
1:Ab:220:CYS:HA	1:Ab:221:PRO:HD2	1.82	0.42
1:Ac:106:TRP:CZ2	1:Ac:158:VAL:HG13	2.54	0.42
1:Ad:62:SER:O	1:Ad:63:THR:CB	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Af:128:VAL:O	1:Af:128:VAL:HG13	2.19	0.42
1:Af:164:TRP:HE1	1:Af:187:LEU:CD1	2.28	0.42
1:Af:239:PHE:CD2	3:Dh:226:GLN:NE2	2.87	0.42
1:Ah:172:ASN:HB2	2:Cj:132:TYR:O	2.19	0.42
1:Ai:106:TRP:CZ2	1:Ai:158:VAL:HG13	2.54	0.42
1:Aj:88:PHE:CA	1:Aj:207:CYS:HA	2.48	0.42
1:Ak:41:GLU:O	1:Ak:42:THR:HB	2.19	0.42
1:Ak:103:TRP:CZ2	1:Al:208:TYR:CE2	3.06	0.42
1:Am:184:TYR:HE2	2:Co:139:ALA:HB3	1.84	0.42
1:Am:208:TYR:CE2	1:BD:103:TRP:CZ2	3.06	0.42
1:Ao:146:ILE:HG21	1:Ao:146:ILE:HD13	1.74	0.42
1:BB:65:GLN:HG2	1:BB:70:ARG:HD2	2.01	0.42
1:BB:72:LEU:O	1:BB:75:CYS:SG	2.76	0.42
1:BC:128:VAL:O	1:BC:128:VAL:HG13	2.19	0.42
1:BC:184:TYR:HE2	2:Cr:139:ALA:HB3	1.84	0.42
1:BF:74:THR:O	1:BF:74:THR:HG22	2.19	0.42
1:BG:219:TYR:HD2	3:EC:39:ARG:HB2	1.79	0.42
1:BH:49:THR:CG2	1:BH:50:GLY:N	2.83	0.42
1:BH:72:LEU:O	1:BH:75:CYS:SG	2.76	0.42
1:BI:92:THR:HB	1:BI:93:THR:H	1.62	0.42
1:BI:174:TRP:HB2	2:Cx:188:LEU:CD2	2.44	0.42
1:BI:184:TYR:HE2	2:Cx:139:ALA:HB3	1.84	0.42
2:C1:56:PRO:C	2:C1:57:THR:O	2.59	0.42
2:C1:115:ASN:C	3:DO:119:LYS:NZ	2.77	0.42
2:C4:69:TRP:HZ2	2:C4:198:ILE:HG23	1.85	0.42
2:C4:207:GLN:HB3	3:EC:196:ILE:HG21	2.01	0.42
2:C4:212:THR:HG23	3:EC:188:LEU:HD22	1.96	0.42
2:C5:69:TRP:HZ2	2:C5:198:ILE:HG23	1.85	0.42
2:C6:69:TRP:HZ2	2:C6:198:ILE:HG23	1.85	0.42
2:CB:207:GLN:HB3	3:Df:196:ILE:HG21	2.01	0.42
2:CC:49:ASP:HA	2:CC:50:PRO:HD2	1.80	0.42
2:CC:69:TRP:HZ2	2:CC:198:ILE:HG23	1.84	0.42
2:CD:103:LEU:O	2:CD:223:ASN:ND2	2.49	0.42
2:CD:129:VAL:HA	2:CD:130:PRO:HD3	1.78	0.42
2:CE:46:THR:CG2	3:DA:165:ASP:HA	2.38	0.42
2:CE:152:TYR:CE1	3:DE:60:PRO:CG	3.01	0.42
2:CE:207:GLN:HB3	3:DF:196:ILE:HG21	2.01	0.42
2:CG:56:PRO:C	2:CG:57:THR:O	2.59	0.42
2:CI:33:THR:HG21	2:CI:160:HIS:O	2.20	0.42
2:CK:22:THR:HG23	2:CK:22:THR:O	2.18	0.42
2:CN:57:THR:O	2:CN:59:SER:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CN:135:THR:O	2:CN:137:GLU:N	2.53	0.42
2:CO:54:LEU:HD21	2:CO:97:VAL:HG11	1.99	0.42
2:CP:56:PRO:C	2:CP:57:THR:O	2.59	0.42
2:CQ:36:TYR:CE2	2:CQ:130:PRO:CG	2.98	0.42
2:CS:216:ALA:HA	2:CS:217:PRO:HD3	1.78	0.42
2:CU:22:THR:HG23	2:CU:22:THR:O	2.18	0.42
2:CW:33:THR:HG21	2:CW:160:HIS:O	2.20	0.42
2:CX:77:HIS:HE1	2:CX:144:GLU:HG2	1.84	0.42
2:CY:57:THR:O	2:CY:59:SER:N	2.52	0.42
2:CZ:33:THR:HG21	2:CZ:160:HIS:O	2.20	0.42
2:CZ:49:ASP:HA	2:CZ:50:PRO:HD2	1.80	0.42
2:CZ:135:THR:O	2:CZ:137:GLU:N	2.53	0.42
2:CZ:207:GLN:HB3	3:Dq:196:ILE:HG21	2.01	0.42
2:Cc:49:ASP:HA	2:Cc:50:PRO:HD2	1.80	0.42
2:Cd:27:GLN:CD	2:Cd:27:GLN:C	2.87	0.42
2:Ce:49:ASP:HA	2:Ce:50:PRO:HD2	1.80	0.42
2:Ce:152:TYR:HB3	2:Ce:197:LEU:HD22	2.00	0.42
2:Cf:33:THR:HG21	2:Cf:160:HIS:O	2.20	0.42
2:Cf:103:LEU:HD21	3:Dg:163:PRO:HD3	2.01	0.42
2:Cg:27:GLN:C	2:Cg:27:GLN:CD	2.87	0.42
2:Cg:58:LEU:HB3	2:Cg:59:SER:H	1.65	0.42
2:Ch:216:ALA:HA	2:Ch:217:PRO:HD3	1.78	0.42
2:Ck:22:THR:HG23	2:Ck:22:THR:O	2.18	0.42
2:Cl:54:LEU:HB2	2:Cl:220:ALA:HB3	1.99	0.42
2:Cl:103:LEU:HD21	3:Dm:163:PRO:HD3	2.01	0.42
2:Cl:207:GLN:HB3	3:D8:196:ILE:HG21	2.01	0.42
2:Cm:27:GLN:CD	2:Cm:27:GLN:C	2.87	0.42
2:Cn:77:HIS:HE1	2:Cn:144:GLU:HG2	1.84	0.42
2:Cn:103:LEU:HD21	3:Dj:163:PRO:HD3	2.01	0.42
2:Cr:25:ASN:O	2:Cr:26:SER:HB3	2.18	0.42
2:Cs:27:GLN:C	2:Cs:27:GLN:CD	2.86	0.42
2:Cs:84:PRO:HD2	2:Cs:186:LEU:CD2	2.48	0.42
2:Cu:57:THR:O	2:Cu:59:SER:N	2.52	0.42
2:Cu:68:GLU:O	2:Cu:69:TRP:C	2.63	0.42
2:Cu:77:HIS:HE1	2:Cu:144:GLU:HG2	1.84	0.42
2:Cv:160:HIS:HD1	2:Cv:160:HIS:N	2.14	0.42
2:Cw:57:THR:O	2:Cw:58:LEU:CB	2.66	0.42
2:Cx:135:THR:O	2:Cx:137:GLU:N	2.53	0.42
3:D0:119:LYS:O	3:D0:120:PHE:CB	2.67	0.42
3:D1:119:LYS:O	3:D1:120:PHE:CB	2.67	0.42
3:D2:13:SER:O	3:D3:9:PRO:HD3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:86:HIS:ND1	3:D2:86:HIS:C	2.77	0.42
3:D3:86:HIS:ND1	3:D3:86:HIS:C	2.76	0.42
3:D8:101:ARG:HH12	3:D8:165:ASP:HB3	1.84	0.42
3:D9:13:SER:O	3:Da:9:PRO:HD3	2.20	0.42
3:DE:121:LEU:C	3:DE:121:LEU:CD2	2.89	0.42
3:DF:9:PRO:HD3	3:DJ:13:SER:O	2.20	0.42
3:DG:217:ARG:HD3	3:DG:218:HIS:CD2	2.54	0.42
3:DI:98:ALA:HB2	3:DI:220:VAL:HG21	2.01	0.42
3:DJ:217:ARG:HD3	3:DJ:218:HIS:CD2	2.54	0.42
3:DM:119:LYS:O	3:DM:120:PHE:CB	2.67	0.42
3:DN:98:ALA:HB2	3:DN:220:VAL:HG21	2.01	0.42
3:DO:36:VAL:HA	3:DO:37:PRO:HD3	1.53	0.42
3:DO:56:ILE:CG1	3:DO:74:PHE:CE1	2.98	0.42
3:DP:101:ARG:HH12	3:DP:165:ASP:HB3	1.84	0.42
3:DP:179:VAL:HG12	3:DP:181:GLY:N	2.33	0.42
3:DS:43:PHE:O	3:DS:44:ILE:C	2.60	0.42
3:DS:98:ALA:HB2	3:DS:220:VAL:HG21	2.01	0.42
3:DT:98:ALA:HB2	3:DT:220:VAL:HG21	2.01	0.42
3:DT:179:VAL:HG12	3:DT:181:GLY:N	2.32	0.42
3:DW:98:ALA:HB2	3:DW:220:VAL:HG21	2.01	0.42
3:DY:36:VAL:HA	3:DY:37:PRO:HD3	1.53	0.42
3:Da:101:ARG:HH12	3:Da:165:ASP:HB3	1.84	0.42
3:Db:115:ALA:CB	3:Db:194:THR:OG1	2.67	0.42
3:Dc:13:SER:O	3:Dd:9:PRO:HD3	2.20	0.42
3:Dh:101:ARG:HH12	3:Dh:165:ASP:HB3	1.84	0.42
3:Dm:13:SER:O	3:Dn:9:PRO:HD3	2.20	0.42
3:Dn:56:ILE:CG1	3:Dn:74:PHE:CE1	2.98	0.42
3:EA:13:SER:O	3:EB:9:PRO:HD3	2.20	0.42
3:EC:175:THR:HG1	3:EC:178:ASN:CG	2.28	0.42
3:EC:179:VAL:HG12	3:EC:181:GLY:N	2.32	0.42
4:F3:31:GLN:HA	4:F3:31:GLN:HE21	1.85	0.42
4:F5:29:GLN:HB2	4:F5:30:TYR:HD1	1.84	0.42
4:F6:31:GLN:HE21	4:F6:31:GLN:HA	1.85	0.42
4:FB:29:GLN:HB2	4:FB:30:TYR:HD1	1.84	0.42
4:FI:18:SER:O	4:FI:23:GLN:NE2	2.52	0.42
4:FM:18:SER:O	4:FM:23:GLN:NE2	2.52	0.42
4:FP:32:ASN:HB3	4:FP:33:SER:H	1.58	0.42
4:FR:29:GLN:HB2	4:FR:30:TYR:HD1	1.84	0.42
4:FZ:29:GLN:HB2	4:FZ:30:TYR:HD1	1.84	0.42
4:Ft:32:ASN:HB3	4:Ft:33:SER:H	1.58	0.42
4:Fv:18:SER:O	4:Fv:23:GLN:NE2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:115:THR:HG23	1:A0:133:LEU:N	2.25	0.42
1:A0:170:PHE:HD2	1:A0:222:ARG:NH1	2.18	0.42
1:A1:55:HIS:O	1:A1:194:SER:HB2	2.18	0.42
1:A2:128:VAL:O	1:A2:128:VAL:HG13	2.19	0.42
1:A2:224:ILE:HA	1:A2:225:PRO:HD2	1.86	0.42
1:A3:208:TYR:CE2	1:A7:103:TRP:CZ2	3.06	0.42
1:A4:26:VAL:HG12	1:A4:27:HIS:N	2.32	0.42
1:A4:62:SER:O	1:A4:63:THR:CB	2.66	0.42
1:A4:143:VAL:H	3:D6:14:PHE:CB	2.28	0.42
1:A4:175:GLY:N	1:A4:183:THR:O	2.52	0.42
1:A6:219:TYR:HA	3:D7:39:ARG:HA	2.02	0.42
1:A7:184:TYR:HE2	2:C8:139:ALA:HB3	1.84	0.42
1:AA:62:SER:O	1:AA:63:THR:CB	2.66	0.42
1:AA:170:PHE:HD2	1:AA:222:ARG:NH1	2.18	0.42
1:AB:239:PHE:CD2	3:DB:226:GLN:NE2	2.87	0.42
1:AC:110:GLY:H	1:AD:242:ASN:ND2	2.12	0.42
1:AE:62:SER:O	1:AE:63:THR:CB	2.66	0.42
1:AF:172:ASN:HB2	2:CF:132:TYR:O	2.19	0.42
1:AG:87:GLN:HA	1:AG:153:ALA:HB2	2.02	0.42
1:AG:106:TRP:CZ2	1:AG:158:VAL:HG13	2.54	0.42
1:AH:144:PHE:CD2	1:AH:154:CYS:HB3	2.54	0.42
1:AH:170:PHE:HD2	1:AH:222:ARG:NH1	2.17	0.42
1:AH:172:ASN:HB2	2:CH:132:TYR:O	2.19	0.42
1:AH:184:TYR:HE2	2:CH:139:ALA:HB3	1.84	0.42
1:AI:43:LEU:HD23	1:AI:43:LEU:H	1.81	0.42
1:AK:62:SER:O	1:AK:63:THR:CB	2.66	0.42
1:AK:174:TRP:HB2	2:CK:188:LEU:CD2	2.44	0.42
1:AL:172:ASN:HB2	2:CL:132:TYR:O	2.19	0.42
1:AN:49:THR:HG22	1:AN:50:GLY:H	1.82	0.42
1:AN:128:VAL:O	1:AN:128:VAL:HG13	2.19	0.42
1:AN:224:ILE:HA	1:AN:225:PRO:HD2	1.86	0.42
1:AO:65:GLN:HG2	1:AO:70:ARG:HD2	2.01	0.42
1:AP:128:VAL:O	1:AP:128:VAL:HG13	2.19	0.42
1:AP:219:TYR:HA	3:DP:39:ARG:HA	2.02	0.42
1:AQ:40:VAL:HB	1:AQ:68:TRP:CH2	2.53	0.42
1:AQ:41:GLU:O	1:AQ:42:THR:HB	2.19	0.42
1:AR:175:GLY:N	1:AR:183:THR:O	2.52	0.42
1:AS:41:GLU:O	1:AS:42:THR:HB	2.19	0.42
1:AS:62:SER:HB2	1:AS:73:ASN:ND2	2.27	0.42
1:AS:87:GLN:HA	1:AS:153:ALA:HB2	2.02	0.42
1:AS:239:PHE:CD2	3:DT:226:GLN:NE2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:175:GLY:N	1:AT:183:THR:O	2.52	0.42
1:AV:49:THR:CG2	1:AV:50:GLY:N	2.83	0.42
1:AV:121:LEU:HD21	1:AW:206:GLY:CA	2.47	0.42
1:AV:224:ILE:HA	1:AV:225:PRO:HD2	1.86	0.42
1:AW:106:TRP:CZ2	1:AW:158:VAL:HG13	2.54	0.42
1:AW:184:TYR:HE2	2:CX:139:ALA:HB3	1.84	0.42
1:AX:109:VAL:HG22	1:AX:191:HIS:HD2	1.82	0.42
1:AY:92:THR:HB	1:AY:93:THR:H	1.62	0.42
1:AY:103:TRP:CZ2	1:AZ:208:TYR:CE2	3.06	0.42
1:AY:139:SER:HA	1:AY:140:PRO:HD3	1.62	0.42
1:AY:224:ILE:HA	1:AY:225:PRO:HD2	1.86	0.42
1:Ac:49:THR:CG2	1:Ac:50:GLY:N	2.83	0.42
1:Ac:144:PHE:CD2	1:Ac:154:CYS:HB3	2.54	0.42
1:Ac:175:GLY:N	1:Ac:183:THR:O	2.53	0.42
1:Ad:65:GLN:HG2	1:Ad:70:ARG:HD2	2.01	0.42
1:Ad:175:GLY:N	1:Ad:183:THR:O	2.53	0.42
1:Ad:219:TYR:HA	3:Df:39:ARG:HA	2.02	0.42
1:Af:107:PHE:CE1	1:Af:196:LEU:HB2	2.55	0.42
1:Af:174:TRP:HB2	2:Ch:188:LEU:CD2	2.44	0.42
1:Ag:49:THR:CG2	1:Ag:50:GLY:N	2.83	0.42
1:Ag:172:ASN:HB2	2:Ci:132:TYR:O	2.19	0.42
1:Ai:144:PHE:CD2	1:Ai:154:CYS:HB3	2.54	0.42
1:Ai:239:PHE:CD2	3:Dk:226:GLN:NE2	2.87	0.42
1:Aj:107:PHE:CE1	1:Aj:196:LEU:HB2	2.55	0.42
1:Al:164:TRP:HE1	1:Al:187:LEU:CD1	2.28	0.42
1:Al:172:ASN:HB2	2:Cn:132:TYR:O	2.19	0.42
1:Am:26:VAL:HG12	1:Am:27:HIS:N	2.32	0.42
1:Am:170:PHE:HD2	1:Am:222:ARG:NH1	2.17	0.42
1:An:49:THR:CG2	1:An:50:GLY:N	2.83	0.42
1:Ao:239:PHE:CD2	3:DS:226:GLN:NE2	2.87	0.42
1:BA:40:VAL:HB	1:BA:68:TRP:CH2	2.53	0.42
1:BB:172:ASN:HB2	2:Cq:132:TYR:O	2.19	0.42
1:BB:175:GLY:N	1:BB:183:THR:O	2.52	0.42
1:BD:43:LEU:HD23	1:BD:43:LEU:H	1.81	0.42
1:BD:172:ASN:HB2	2:Cs:132:TYR:O	2.19	0.42
1:BE:87:GLN:HA	1:BE:153:ALA:HB2	2.02	0.42
1:BF:146:ILE:HD13	1:BF:146:ILE:HG21	1.74	0.42
1:BI:175:GLY:N	1:BI:183:THR:O	2.52	0.42
2:C1:68:GLU:O	2:C1:69:TRP:C	2.63	0.42
2:C2:57:THR:O	2:C2:59:SER:N	2.52	0.42
2:C4:33:THR:HG21	2:C4:160:HIS:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:57:THR:O	2:C4:59:SER:N	2.52	0.42
2:C4:68:GLU:O	2:C4:69:TRP:C	2.63	0.42
2:C5:77:HIS:HE1	2:C5:144:GLU:HG2	1.84	0.42
2:C5:135:THR:O	2:C5:137:GLU:N	2.53	0.42
2:C7:25:ASN:O	2:C7:26:SER:HB3	2.18	0.42
2:C7:152:TYR:CE1	3:D7:60:PRO:CG	3.01	0.42
2:C9:152:TYR:HB3	2:C9:197:LEU:HD22	2.00	0.42
2:CA:27:GLN:C	2:CA:27:GLN:CD	2.87	0.42
2:CA:33:THR:HG21	2:CA:160:HIS:O	2.20	0.42
2:CA:57:THR:O	2:CA:59:SER:N	2.52	0.42
2:CA:135:THR:O	2:CA:137:GLU:N	2.53	0.42
2:CC:129:VAL:HA	2:CC:130:PRO:HD3	1.78	0.42
2:CC:152:TYR:HB3	2:CC:197:LEU:HD22	2.00	0.42
2:CD:33:THR:HG21	2:CD:160:HIS:O	2.20	0.42
2:CD:77:HIS:HE1	2:CD:144:GLU:HG2	1.84	0.42
2:CE:27:GLN:CD	2:CE:27:GLN:C	2.87	0.42
2:CF:33:THR:HG21	2:CF:160:HIS:O	2.20	0.42
2:CI:27:GLN:C	2:CI:27:GLN:CD	2.87	0.42
2:CI:57:THR:O	2:CI:59:SER:N	2.52	0.42
2:CJ:152:TYR:HB3	2:CJ:197:LEU:HD22	2.00	0.42
2:CK:23:ILE:N	2:CK:23:ILE:CD1	2.81	0.42
2:CK:135:THR:O	2:CK:137:GLU:N	2.53	0.42
2:CM:135:THR:O	2:CM:137:GLU:N	2.53	0.42
2:CO:68:GLU:O	2:CO:69:TRP:C	2.63	0.42
2:CO:69:TRP:HZ2	2:CO:198:ILE:HG23	1.85	0.42
2:CP:57:THR:O	2:CP:58:LEU:CB	2.66	0.42
2:CP:152:TYR:HB3	2:CP:197:LEU:HD22	2.00	0.42
2:CP:166:ARG:HD3	3:DP:110:PHE:O	2.20	0.42
2:CT:134:HIS:HB3	2:CT:135:THR:H	1.46	0.42
2:CV:22:THR:HG23	2:CV:22:THR:O	2.18	0.42
2:CW:68:GLU:O	2:CW:69:TRP:C	2.63	0.42
2:CW:83:LEU:HA	2:CW:84:PRO:HA	1.59	0.42
2:CY:69:TRP:HZ2	2:CY:198:ILE:HG23	1.84	0.42
2:CY:103:LEU:O	2:CY:223:ASN:ND2	2.49	0.42
2:Ca:58:LEU:HB3	2:Ca:59:SER:H	1.65	0.42
2:Cc:33:THR:HG21	2:Cc:160:HIS:O	2.20	0.42
2:Cc:69:TRP:HZ2	2:Cc:198:ILE:HG23	1.85	0.42
2:Cd:207:GLN:HB3	3:D4:196:ILE:HG21	2.00	0.42
2:Ce:135:THR:O	2:Ce:137:GLU:N	2.53	0.42
2:Ce:152:TYR:CE1	3:De:60:PRO:CG	3.01	0.42
2:Cg:117:SER:HB3	3:D3:192:THR:CG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:69:TRP:HZ2	2:Ch:198:ILE:HG23	1.84	0.42
2:Cj:57:THR:O	2:Cj:58:LEU:CB	2.66	0.42
2:Ck:42:ARG:HA	2:Ck:43:PRO:HD2	1.64	0.42
2:Ck:83:LEU:HA	2:Ck:84:PRO:HA	1.60	0.42
2:Ck:115:ASN:C	3:Da:119:LYS:NZ	2.77	0.42
2:Cl:25:ASN:O	2:Cl:26:SER:HB3	2.18	0.42
2:Cl:77:HIS:HE1	2:Cl:144:GLU:HG2	1.84	0.42
2:Cl:135:THR:O	2:Cl:137:GLU:N	2.53	0.42
2:Cm:68:GLU:O	2:Cm:69:TRP:C	2.63	0.42
2:Cn:27:GLN:CD	2:Cn:27:GLN:C	2.87	0.42
2:Cn:33:THR:HG21	2:Cn:160:HIS:O	2.20	0.42
2:Cp:22:THR:O	2:Cp:22:THR:HG23	2.19	0.42
2:Cp:33:THR:HG21	2:Cp:160:HIS:O	2.20	0.42
2:Cp:129:VAL:HA	2:Cp:130:PRO:HD3	1.78	0.42
2:Cq:22:THR:O	2:Cq:22:THR:HG23	2.19	0.42
2:Cr:49:ASP:HA	2:Cr:50:PRO:HD2	1.80	0.42
2:Cr:166:ARG:HD3	3:Dr:110:PHE:O	2.20	0.42
2:Cs:25:ASN:O	2:Cs:26:SER:HB3	2.18	0.42
2:Cs:152:TYR:OH	3:Ds:60:PRO:HD3	2.17	0.42
2:Cs:207:GLN:HB3	3:EA:196:ILE:HG21	2.00	0.42
2:Ct:27:GLN:C	2:Ct:27:GLN:CD	2.87	0.42
2:Cw:115:ASN:C	3:DS:119:LYS:NZ	2.77	0.42
2:Cw:135:THR:O	2:Cw:137:GLU:N	2.53	0.42
2:Cx:25:ASN:O	2:Cx:26:SER:HB3	2.18	0.42
3:D1:13:SER:O	3:D2:9:PRO:HD3	2.20	0.42
3:D1:75:GLN:NE2	3:D1:184:GLN:OE1	2.49	0.42
3:D2:175:THR:HG1	3:D2:178:ASN:CG	2.28	0.42
3:D3:175:THR:HG1	3:D3:178:ASN:CG	2.28	0.42
3:D3:217:ARG:HD3	3:D3:218:HIS:CD2	2.54	0.42
3:D4:217:ARG:HD3	3:D4:218:HIS:CD2	2.54	0.42
3:D6:119:LYS:O	3:D6:120:PHE:CB	2.67	0.42
3:D7:98:ALA:HB2	3:D7:220:VAL:HG21	2.01	0.42
3:D7:175:THR:HG1	3:D7:178:ASN:CG	2.28	0.42
3:DB:79:SER:O	3:DB:81:SER:N	2.51	0.42
3:DD:101:ARG:HH12	3:DD:165:ASP:HB3	1.84	0.42
3:DD:115:ALA:CB	3:DD:194:THR:OG1	2.67	0.42
3:DI:175:THR:HG1	3:DI:178:ASN:CG	2.28	0.42
3:DO:119:LYS:O	3:DO:120:PHE:CB	2.67	0.42
3:DQ:175:THR:HG1	3:DQ:178:ASN:CG	2.28	0.42
3:DQ:217:ARG:HD3	3:DQ:218:HIS:CD2	2.54	0.42
3:DY:56:ILE:CG1	3:DY:74:PHE:CE1	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dk:98:ALA:HB2	3:Dk:220:VAL:HG21	2.01	0.42
3:Dq:43:PHE:O	3:Dq:44:ILE:C	2.60	0.42
3:Dq:217:ARG:HD3	3:Dq:218:HIS:CD2	2.54	0.42
3:Ds:121:LEU:C	3:Ds:121:LEU:CD2	2.89	0.42
3:EA:86:HIS:ND1	3:EA:86:HIS:C	2.77	0.42
3:EB:98:ALA:HB2	3:EB:220:VAL:HG21	2.01	0.42
3:ED:119:LYS:O	3:ED:120:PHE:CB	2.67	0.42
3:EE:175:THR:HG1	3:EE:178:ASN:CG	2.28	0.42
4:F1:29:GLN:HB2	4:F1:30:TYR:HD1	1.84	0.42
4:FA:21:ILE:HG22	4:FA:21:ILE:O	2.20	0.42
4:FA:29:GLN:HB2	4:FA:30:TYR:HD1	1.84	0.42
4:FJ:29:GLN:HB2	4:FJ:30:TYR:HD1	1.84	0.42
4:FL:32:ASN:HB3	4:FL:33:SER:H	1.58	0.42
4:FQ:21:ILE:O	4:FQ:21:ILE:HG22	2.20	0.42
4:FT:31:GLN:HA	4:FT:31:GLN:HE21	1.85	0.42
4:Fa:29:GLN:HB2	4:Fa:30:TYR:HD1	1.84	0.42
4:Fd:31:GLN:HE21	4:Fd:31:GLN:HA	1.85	0.42
4:Fo:21:ILE:O	4:Fo:21:ILE:HG22	2.20	0.42
4:Fp:21:ILE:O	4:Fp:21:ILE:HG22	2.20	0.42
1:A2:137:GLY:HA2	1:AY:38:PHE:CD1	2.49	0.42
1:A3:55:HIS:O	1:A3:194:SER:HB2	2.17	0.42
1:A3:74:THR:O	1:A3:74:THR:HG22	2.19	0.42
1:A3:110:GLY:H	1:A4:242:ASN:ND2	2.12	0.42
1:A4:107:PHE:CE1	1:A4:196:LEU:HB2	2.55	0.42
1:A6:128:VAL:O	1:A6:128:VAL:HG13	2.20	0.42
1:A8:22:VAL:HG12	1:A8:23:ASP:N	2.33	0.42
1:A9:170:PHE:HD2	1:A9:222:ARG:NH1	2.18	0.42
1:A9:219:TYR:HA	3:Da:39:ARG:HA	2.02	0.42
1:AA:49:THR:HG22	1:AA:50:GLY:H	1.82	0.42
1:AB:20:SER:HA	1:AB:21:PRO:HD3	1.92	0.42
1:AB:147:ALA:C	1:AB:149:SER:H	2.28	0.42
1:AB:184:TYR:HE2	2:CB:139:ALA:HB3	1.84	0.42
1:AC:239:PHE:CD2	3:DC:226:GLN:NE2	2.87	0.42
1:AD:103:TRP:CZ2	1:AE:208:TYR:CE2	3.06	0.42
1:AD:219:TYR:HA	3:DD:39:ARG:HA	2.02	0.42
1:AE:43:LEU:HD23	1:AE:43:LEU:H	1.81	0.42
1:AE:79:PHE:CE2	1:AE:160:TYR:CD2	3.08	0.42
1:AE:146:ILE:HD13	1:AE:146:ILE:HG21	1.74	0.42
1:AF:74:THR:O	1:AF:74:THR:HG22	2.19	0.42
1:AG:103:TRP:CZ2	1:AH:208:TYR:CE2	3.06	0.42
1:AI:48:LEU:HA	1:AI:198:THR:OG1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:188:PRO:HG3	3:DJ:176:VAL:CG1	2.50	0.42
1:AI:219:TYR:HA	3:DI:39:ARG:HA	2.02	0.42
1:AJ:49:THR:CG2	1:AJ:50:GLY:N	2.83	0.42
1:AJ:106:TRP:CZ2	1:AJ:158:VAL:HG13	2.54	0.42
1:AK:22:VAL:HG12	1:AK:23:ASP:N	2.33	0.42
1:AK:188:PRO:HG3	3:DL:176:VAL:CG1	2.50	0.42
1:AK:219:TYR:HA	3:DK:39:ARG:HA	2.02	0.42
1:AM:219:TYR:HA	3:DM:39:ARG:HA	2.02	0.42
1:AM:234:LYS:HA	1:AM:234:LYS:HD3	1.89	0.42
1:AN:235:THR:HB	1:AN:236:ARG:H	1.65	0.42
1:AO:107:PHE:CE1	1:AO:196:LEU:HB2	2.55	0.42
1:AO:187:LEU:HD13	1:AO:187:LEU:C	2.44	0.42
1:AP:144:PHE:CD2	1:AP:154:CYS:HB3	2.54	0.42
1:AR:87:GLN:O	1:AR:88:PHE:CB	2.62	0.42
1:AS:92:THR:HB	1:AS:93:THR:H	1.62	0.42
1:AS:147:ALA:C	1:AS:149:SER:H	2.28	0.42
1:AT:87:GLN:HA	1:AT:153:ALA:HB2	2.02	0.42
1:AU:92:THR:HB	1:AU:93:THR:H	1.62	0.42
1:AU:239:PHE:CD2	3:DV:226:GLN:NE2	2.87	0.42
1:AW:74:THR:HG22	1:AW:74:THR:O	2.19	0.42
1:AW:103:TRP:CZ2	1:AX:208:TYR:CE2	3.06	0.42
1:AW:219:TYR:HA	3:DX:39:ARG:HA	2.02	0.42
1:AX:188:PRO:HG3	3:DU:176:VAL:CG1	2.50	0.42
1:AZ:48:LEU:HA	1:AZ:198:THR:OG1	2.20	0.42
1:AZ:146:ILE:HG22	1:AZ:146:ILE:O	2.17	0.42
1:Aa:172:ASN:HB2	2:Cc:132:TYR:O	2.19	0.42
1:Aa:206:GLY:CA	1:An:121:LEU:HD21	2.47	0.42
1:Aa:239:PHE:CD2	3:Dc:226:GLN:NE2	2.87	0.42
1:Ab:62:SER:O	1:Ab:63:THR:CB	2.66	0.42
1:Ab:79:PHE:CE2	1:Ab:160:TYR:CD2	3.08	0.42
1:Ad:147:ALA:C	1:Ad:149:SER:H	2.28	0.42
1:Ad:234:LYS:HA	1:Ad:234:LYS:HD3	1.89	0.42
1:Af:144:PHE:CD2	1:Af:154:CYS:HB3	2.54	0.42
1:Ah:219:TYR:HA	3:Dj:39:ARG:HA	2.02	0.42
1:Ai:74:THR:O	1:Ai:74:THR:HG22	2.19	0.42
1:Ai:87:GLN:HA	1:Ai:153:ALA:HB2	2.02	0.42
1:Aj:49:THR:CG2	1:Aj:50:GLY:N	2.83	0.42
1:Aj:219:TYR:HA	3:DI:39:ARG:HA	2.02	0.42
1:Ak:128:VAL:O	1:Ak:128:VAL:HG13	2.19	0.42
1:Al:40:VAL:HB	1:Al:68:TRP:CH2	2.53	0.42
1:Am:107:PHE:CE1	1:Am:196:LEU:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:128:VAL:O	1:Am:128:VAL:HG13	2.19	0.42
1:Am:219:TYR:HD2	3:Do:39:ARG:HB2	1.79	0.42
1:Ao:219:TYR:HA	3:DS:39:ARG:HA	2.02	0.42
1:BA:41:GLU:O	1:BA:42:THR:HB	2.19	0.42
1:BA:65:GLN:HG2	1:BA:70:ARG:HD2	2.01	0.42
1:BA:175:GLY:N	1:BA:183:THR:O	2.53	0.42
1:BB:106:TRP:CZ2	1:BB:158:VAL:HG13	2.54	0.42
1:BB:170:PHE:CD2	1:BB:222:ARG:CZ	2.87	0.42
1:BC:41:GLU:O	1:BC:42:THR:HB	2.19	0.42
1:BC:187:LEU:HD13	1:BC:187:LEU:C	2.44	0.42
1:BD:128:VAL:O	1:BD:128:VAL:HG13	2.19	0.42
1:BD:219:TYR:HA	3:Ds:39:ARG:HA	2.02	0.42
1:BD:239:PHE:CD2	3:Ds:226:GLN:NE2	2.87	0.42
1:BF:106:TRP:CZ2	1:BF:158:VAL:HG13	2.54	0.42
1:BF:170:PHE:HD2	1:BF:222:ARG:NH1	2.17	0.42
1:BH:106:TRP:CZ2	1:BH:158:VAL:HG13	2.54	0.42
1:BH:234:LYS:HA	1:BH:234:LYS:HD3	1.89	0.42
1:BI:115:THR:HG23	1:BI:133:LEU:N	2.25	0.42
2:C1:57:THR:O	2:C1:59:SER:N	2.52	0.42
2:C2:33:THR:HG21	2:C2:160:HIS:O	2.20	0.42
2:C2:117:SER:HB3	3:Dh:192:THR:CG2	2.47	0.42
2:C6:33:THR:HG21	2:C6:160:HIS:O	2.20	0.42
2:C7:135:THR:O	2:C7:137:GLU:N	2.53	0.42
2:C8:57:THR:O	2:C8:59:SER:N	2.52	0.42
2:C8:69:TRP:HZ2	2:C8:198:ILE:HG23	1.85	0.42
2:C9:134:HIS:HB3	2:C9:135:THR:H	1.46	0.42
2:CA:68:GLU:O	2:CA:69:TRP:C	2.63	0.42
2:CB:25:ASN:O	2:CB:26:SER:HB3	2.18	0.42
2:CB:68:GLU:O	2:CB:69:TRP:C	2.63	0.42
2:CB:77:HIS:HE1	2:CB:144:GLU:HG2	1.84	0.42
2:CB:103:LEU:HD21	3:DC:163:PRO:HD3	2.01	0.42
2:CB:135:THR:HB	2:CB:139:ALA:CB	2.50	0.42
2:CB:135:THR:O	2:CB:137:GLU:N	2.53	0.42
2:CD:55:GLY:HA2	2:CD:56:PRO:HD3	1.80	0.42
2:CD:68:GLU:O	2:CD:69:TRP:C	2.63	0.42
2:CF:25:ASN:O	2:CF:26:SER:HB3	2.18	0.42
2:CG:166:ARG:HD3	3:DG:110:PHE:O	2.20	0.42
2:CH:68:GLU:O	2:CH:69:TRP:C	2.63	0.42
2:CH:135:THR:HB	2:CH:139:ALA:CB	2.50	0.42
2:CH:152:TYR:CE1	3:DH:60:PRO:CG	3.01	0.42
2:CI:152:TYR:HB3	2:CI:197:LEU:HD22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:207:GLN:HB3	3:DX:196:ILE:HG21	2.00	0.42
2:CJ:57:THR:O	2:CJ:58:LEU:CB	2.66	0.42
2:CJ:68:GLU:O	2:CJ:69:TRP:C	2.63	0.42
2:CK:69:TRP:HZ2	2:CK:198:ILE:HG23	1.84	0.42
2:CK:166:ARG:HD3	3:DK:110:PHE:O	2.20	0.42
2:CL:77:HIS:HE1	2:CL:144:GLU:HG2	1.84	0.42
2:CL:216:ALA:HA	2:CL:217:PRO:HD3	1.78	0.42
2:CM:135:THR:HB	2:CM:139:ALA:CB	2.50	0.42
2:CP:68:GLU:O	2:CP:69:TRP:C	2.63	0.42
2:CP:135:THR:O	2:CP:137:GLU:N	2.53	0.42
2:CQ:69:TRP:HZ2	2:CQ:198:ILE:HG23	1.84	0.42
2:CS:57:THR:O	2:CS:58:LEU:CB	2.66	0.42
2:CU:117:SER:HB3	3:Dg:192:THR:CG2	2.48	0.42
2:CW:212:THR:HG23	3:DJ:188:LEU:HD22	1.96	0.42
2:CZ:58:LEU:HB3	2:CZ:59:SER:H	1.65	0.42
2:Cb:77:HIS:HE1	2:Cb:144:GLU:HG2	1.84	0.42
2:Cb:135:THR:O	2:Cb:137:GLU:N	2.53	0.42
2:Cc:135:THR:O	2:Cc:137:GLU:N	2.53	0.42
2:Cf:55:GLY:HA2	2:Cf:56:PRO:HD3	1.80	0.42
2:Cf:68:GLU:O	2:Cf:69:TRP:C	2.63	0.42
2:CI:33:THR:HG21	2:CI:160:HIS:O	2.20	0.42
2:Cn:54:LEU:HB2	2:Cn:220:ALA:HB3	1.99	0.42
2:Cn:135:THR:O	2:Cn:137:GLU:N	2.53	0.42
2:Co:77:HIS:HE1	2:Co:144:GLU:HG2	1.84	0.42
2:Cr:33:THR:HG21	2:Cr:160:HIS:O	2.20	0.42
2:Cr:69:TRP:HZ2	2:Cr:198:ILE:HG23	1.84	0.42
2:Cs:33:THR:HG21	2:Cs:160:HIS:O	2.20	0.42
2:Ct:68:GLU:O	2:Ct:69:TRP:C	2.63	0.42
2:Ct:135:THR:HB	2:Ct:139:ALA:CB	2.50	0.42
2:Cw:33:THR:HG21	2:Cw:160:HIS:O	2.20	0.42
2:Cx:33:THR:HG21	2:Cx:160:HIS:O	2.20	0.42
3:D2:217:ARG:HD3	3:D2:218:HIS:CD2	2.54	0.42
3:D3:119:LYS:O	3:D3:120:PHE:CB	2.67	0.42
3:D6:98:ALA:HB2	3:D6:220:VAL:HG21	2.01	0.42
3:D6:175:THR:HG1	3:D6:178:ASN:CG	2.28	0.42
3:D7:79:SER:O	3:D7:81:SER:N	2.51	0.42
3:D9:9:PRO:HD3	3:Dd:13:SER:O	2.20	0.42
3:DF:119:LYS:HG2	3:DF:147:ASP:CG	2.45	0.42
3:DJ:75:GLN:NE2	3:DJ:184:GLN:OE1	2.49	0.42
3:DK:98:ALA:HB2	3:DK:220:VAL:HG21	2.01	0.42
3:DO:86:HIS:ND1	3:DO:86:HIS:C	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DP:98:ALA:HB2	3:DP:220:VAL:HG21	2.01	0.42
3:DR:56:ILE:CG1	3:DR:74:PHE:CE1	2.98	0.42
3:DS:101:ARG:HH12	3:DS:165:ASP:HB3	1.84	0.42
3:DU:75:GLN:NE2	3:DU:184:GLN:OE1	2.49	0.42
3:DX:8:VAL:CG1	3:DX:9:PRO:HD2	2.39	0.42
3:Da:86:HIS:ND1	3:Da:86:HIS:C	2.77	0.42
3:De:84:GLU:C	3:De:86:HIS:H	2.28	0.42
3:Dg:8:VAL:CG1	3:Dg:9:PRO:HD2	2.39	0.42
3:Dj:98:ALA:HB2	3:Dj:220:VAL:HG21	2.01	0.42
3:Dl:84:GLU:C	3:Dl:86:HIS:H	2.28	0.42
3:Dr:121:LEU:C	3:Dr:121:LEU:CD2	2.89	0.42
3:EE:84:GLU:C	3:EE:86:HIS:H	2.28	0.42
4:F1:31:GLN:HE21	4:F1:31:GLN:HA	1.85	0.42
4:F7:21:ILE:HG22	4:F7:21:ILE:O	2.20	0.42
4:F7:31:GLN:HE21	4:F7:31:GLN:HA	1.85	0.42
4:FH:31:GLN:HA	4:FH:31:GLN:HE21	1.85	0.42
4:FV:18:SER:O	4:FV:23:GLN:NE2	2.52	0.42
4:Fk:31:GLN:HA	4:Fk:31:GLN:HE21	1.85	0.42
4:Fr:21:ILE:O	4:Fr:21:ILE:HG22	2.20	0.42
4:Fs:29:GLN:HB2	4:Fs:30:TYR:HD1	1.84	0.42
1:A0:239:PHE:CD2	3:D1:226:GLN:NE2	2.87	0.42
1:A1:72:LEU:O	1:A1:75:CYS:SG	2.76	0.42
1:A1:174:TRP:HB2	2:C2:188:LEU:CD2	2.44	0.42
1:A1:219:TYR:HA	3:D2:39:ARG:HA	2.02	0.42
1:A2:234:LYS:HA	1:A2:234:LYS:HD3	1.89	0.42
1:A3:128:VAL:O	1:A3:128:VAL:HG13	2.19	0.42
1:A3:188:PRO:HG3	3:D5:176:VAL:CG1	2.50	0.42
1:A4:106:TRP:CZ2	1:A4:158:VAL:HG13	2.54	0.42
1:A6:87:GLN:HA	1:A6:153:ALA:HB2	2.02	0.42
1:A7:128:VAL:O	1:A7:128:VAL:HG13	2.19	0.42
1:A7:219:TYR:HD2	3:D8:39:ARG:HB2	1.79	0.42
1:A8:48:LEU:HA	1:A8:198:THR:OG1	2.20	0.42
1:A8:49:THR:CG2	1:A8:50:GLY:N	2.83	0.42
1:A8:65:GLN:HG2	1:A8:70:ARG:HD2	2.01	0.42
1:A8:219:TYR:HA	3:D9:39:ARG:HA	2.02	0.42
1:A8:224:ILE:HA	1:A8:225:PRO:HD2	1.86	0.42
1:A9:41:GLU:O	1:A9:42:THR:HB	2.19	0.42
1:A9:43:LEU:HD23	1:A9:43:LEU:H	1.81	0.42
1:A9:93:THR:O	1:A9:95:SER:N	2.53	0.42
1:AB:106:TRP:CZ2	1:AB:158:VAL:HG13	2.54	0.42
1:AB:184:TYR:CE2	2:CB:139:ALA:CB	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:146:ILE:HD13	1:AC:146:ILE:HG21	1.74	0.42
1:AC:225:PRO:HA	1:AC:226:PRO:HD2	1.88	0.42
1:AD:49:THR:CG2	1:AD:50:GLY:N	2.83	0.42
1:AD:188:PRO:HG3	3:DE:176:VAL:CG1	2.50	0.42
1:AE:170:PHE:HD2	1:AE:222:ARG:NH1	2.17	0.42
1:AF:170:PHE:HD2	1:AF:222:ARG:NH1	2.17	0.42
1:AG:43:LEU:N	1:AG:43:LEU:CD2	2.74	0.42
1:AG:191:HIS:HB2	1:AG:192:PHE:H	1.71	0.42
1:AI:22:VAL:HG12	1:AI:23:ASP:N	2.33	0.42
1:AI:103:TRP:CZ2	1:AJ:208:TYR:CE2	3.06	0.42
1:AI:144:PHE:CD2	1:AI:154:CYS:HB3	2.54	0.42
1:AK:128:VAL:O	1:AK:128:VAL:HG13	2.19	0.42
1:AL:43:LEU:HD23	1:AL:43:LEU:H	1.81	0.42
1:AL:107:PHE:CE1	1:AL:196:LEU:HB2	2.55	0.42
1:AL:147:ALA:C	1:AL:149:SER:H	2.28	0.42
1:AM:106:TRP:CZ2	1:AM:158:VAL:HG13	2.54	0.42
1:AM:128:VAL:O	1:AM:128:VAL:HG13	2.19	0.42
1:AN:219:TYR:HA	3:DN:39:ARG:HA	2.02	0.42
1:AP:188:PRO:HG3	3:DQ:176:VAL:CG1	2.50	0.42
1:AS:128:VAL:O	1:AS:128:VAL:HG13	2.19	0.42
1:AS:184:TYR:HE2	2:CT:139:ALA:HB3	1.84	0.42
1:AT:20:SER:HA	1:AT:21:PRO:HD3	1.92	0.42
1:AU:103:TRP:CZ2	1:AV:208:TYR:CE2	3.06	0.42
1:AV:144:PHE:CD2	1:AV:154:CYS:HB3	2.54	0.42
1:AV:184:TYR:HE2	2:CW:139:ALA:HB3	1.84	0.42
1:AV:219:TYR:HA	3:DW:39:ARG:HA	2.02	0.42
1:AW:147:ALA:C	1:AW:149:SER:H	2.28	0.42
1:AX:41:GLU:O	1:AX:42:THR:HB	2.19	0.42
1:AX:72:LEU:O	1:AX:75:CYS:SG	2.76	0.42
1:AX:128:VAL:O	1:AX:128:VAL:HG13	2.19	0.42
1:AY:107:PHE:CE1	1:AY:196:LEU:HB2	2.55	0.42
1:AY:187:LEU:HD13	1:AY:187:LEU:C	2.44	0.42
1:AZ:170:PHE:HD2	1:AZ:222:ARG:NH1	2.17	0.42
1:Ab:62:SER:HB2	1:Ab:73:ASN:ND2	2.27	0.42
1:Ac:225:PRO:HA	1:Ac:226:PRO:HD2	1.88	0.42
1:Ae:184:TYR:HE2	2:Cg:139:ALA:HB3	1.84	0.42
1:Af:103:TRP:CZ2	1:Ag:208:TYR:CE2	3.06	0.42
1:Af:219:TYR:HA	3:Dh:39:ARG:HA	2.02	0.42
1:Ag:74:THR:O	1:Ag:74:THR:HG22	2.19	0.42
1:Ag:92:THR:HB	1:Ag:93:THR:H	1.62	0.42
1:Ag:106:TRP:CZ2	1:Ag:158:VAL:HG13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:132:GLN:OE1	1:Ai:66:LEU:HD21	2.20	0.42
1:Ai:48:LEU:HA	1:Ai:198:THR:OG1	2.20	0.42
1:Ai:107:PHE:CE1	1:Ai:196:LEU:HB2	2.55	0.42
1:Ak:22:VAL:HG12	1:Ak:23:ASP:N	2.33	0.42
1:Ak:72:LEU:O	1:Ak:75:CYS:SG	2.76	0.42
1:Ak:107:PHE:CE1	1:Ak:196:LEU:HB2	2.55	0.42
1:Ak:147:ALA:C	1:Ak:149:SER:H	2.28	0.42
1:Ak:184:TYR:HE2	2:Cm:139:ALA:HB3	1.84	0.42
1:Al:41:GLU:O	1:Al:42:THR:HB	2.19	0.42
1:Al:144:PHE:CD2	1:Al:154:CYS:HB3	2.54	0.42
1:Al:188:PRO:HG3	3:Dj:176:VAL:CG1	2.50	0.42
1:Am:74:THR:HG22	1:Am:74:THR:O	2.19	0.42
1:Am:87:GLN:HA	1:Am:153:ALA:HB2	2.02	0.42
1:An:139:SER:HA	1:An:140:PRO:HD3	1.62	0.42
1:Ao:107:PHE:CE1	1:Ao:196:LEU:HB2	2.55	0.42
1:BA:79:PHE:CE2	1:BA:160:TYR:CD2	3.08	0.42
1:BB:170:PHE:HD2	1:BB:222:ARG:NH1	2.17	0.42
1:BB:219:TYR:HA	3:Dq:39:ARG:HA	2.02	0.42
1:BC:146:ILE:HD13	1:BC:146:ILE:HG21	1.74	0.42
1:BD:79:PHE:CE2	1:BD:160:TYR:CD2	3.08	0.42
1:BF:147:ALA:C	1:BF:149:SER:H	2.28	0.42
1:BF:172:ASN:HB2	2:Cu:132:TYR:O	2.19	0.42
1:BF:239:PHE:CD2	3:EB:226:GLN:NE2	2.87	0.42
1:BG:49:THR:CG2	1:BG:50:GLY:N	2.83	0.42
1:BG:106:TRP:CZ2	1:BG:158:VAL:HG13	2.54	0.42
1:BG:128:VAL:HG13	1:BG:128:VAL:O	2.19	0.42
1:BG:144:PHE:CD2	1:BG:154:CYS:HB3	2.54	0.42
1:BI:106:TRP:CZ2	1:BI:158:VAL:HG13	2.54	0.42
2:C0:135:THR:O	2:C0:137:GLU:N	2.53	0.42
2:C1:84:PRO:HD2	2:C1:186:LEU:CD2	2.48	0.42
2:C1:135:THR:O	2:C1:137:GLU:N	2.53	0.42
2:C4:25:ASN:O	2:C4:26:SER:HB3	2.18	0.42
2:C4:55:GLY:HA2	2:C4:56:PRO:HD3	1.80	0.42
2:C5:207:GLN:HB3	3:DG:196:ILE:HG21	2.01	0.42
2:C6:166:ARG:HD3	3:D6:110:PHE:O	2.20	0.42
2:C7:69:TRP:HZ2	2:C7:198:ILE:HG23	1.85	0.42
2:C8:33:THR:HG21	2:C8:160:HIS:O	2.20	0.42
2:C9:135:THR:O	2:C9:137:GLU:N	2.53	0.42
2:C9:207:GLN:HB3	3:DI:196:ILE:HG21	2.01	0.42
2:CA:77:HIS:HE1	2:CA:144:GLU:HG2	1.84	0.42
2:CD:103:LEU:HD21	3:DE:163:PRO:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:23:ILE:HD12	2:CE:23:ILE:H	1.80	0.42
2:CE:26:SER:C	3:DF:147:ASP:HB3	2.45	0.42
2:CF:134:HIS:HB3	2:CF:135:THR:H	1.46	0.42
2:CG:135:THR:HB	2:CG:139:ALA:CB	2.50	0.42
2:CH:57:THR:O	2:CH:58:LEU:CB	2.66	0.42
2:CH:135:THR:O	2:CH:137:GLU:N	2.53	0.42
2:CH:207:GLN:HB3	3:Ds:196:ILE:HG21	2.01	0.42
2:CJ:77:HIS:HE1	2:CJ:144:GLU:HG2	1.84	0.42
2:CK:57:THR:O	2:CK:58:LEU:CB	2.66	0.42
2:CK:152:TYR:OH	3:DK:60:PRO:HD3	2.17	0.42
2:CM:13:ARG:HD3	2:CM:13:ARG:HA	1.72	0.42
2:CM:57:THR:O	2:CM:59:SER:N	2.52	0.42
2:CO:25:ASN:O	2:CO:26:SER:HB3	2.18	0.42
2:CP:27:GLN:CD	2:CP:27:GLN:C	2.87	0.42
2:CP:57:THR:O	2:CP:59:SER:N	2.52	0.42
2:CP:135:THR:HB	2:CP:139:ALA:CB	2.50	0.42
2:CQ:166:ARG:HD3	3:DQ:110:PHE:O	2.20	0.42
2:CR:135:THR:HB	2:CR:139:ALA:CB	2.50	0.42
2:CS:135:THR:O	2:CS:137:GLU:N	2.53	0.42
2:CU:46:THR:CG2	3:DV:165:ASP:HA	2.38	0.42
2:CU:135:THR:O	2:CU:137:GLU:N	2.53	0.42
2:CV:135:THR:HB	2:CV:139:ALA:CB	2.50	0.42
2:CV:135:THR:O	2:CV:137:GLU:N	2.53	0.42
2:CW:42:ARG:HA	2:CW:43:PRO:HD2	1.64	0.42
2:CW:135:THR:O	2:CW:137:GLU:N	2.53	0.42
2:CW:166:ARG:HD3	3:DW:110:PHE:O	2.20	0.42
2:CW:207:GLN:HB3	3:DJ:196:ILE:HG21	2.01	0.42
2:CX:57:THR:O	2:CX:59:SER:N	2.52	0.42
2:CX:68:GLU:O	2:CX:69:TRP:C	2.63	0.42
2:CX:135:THR:O	2:CX:137:GLU:N	2.53	0.42
2:CY:57:THR:O	2:CY:58:LEU:CB	2.66	0.42
2:CY:68:GLU:O	2:CY:69:TRP:C	2.63	0.42
2:CZ:69:TRP:HZ2	2:CZ:198:ILE:HG23	1.85	0.42
2:CZ:103:LEU:HD21	3:D0:163:PRO:HD3	2.01	0.42
2:Cb:115:ASN:HD22	3:DT:190:ALA:C	2.17	0.42
2:Cd:69:TRP:HZ2	2:Cd:198:ILE:HG23	1.84	0.42
2:Cd:135:THR:HB	2:Cd:139:ALA:CB	2.50	0.42
2:Ce:69:TRP:HZ2	2:Ce:198:ILE:HG23	1.85	0.42
2:Cg:77:HIS:HE1	2:Cg:144:GLU:HG2	1.84	0.42
2:Cg:135:THR:HB	2:Cg:139:ALA:CB	2.50	0.42
2:Ch:135:THR:HB	2:Ch:139:ALA:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ch:135:THR:O	2:Ch:137:GLU:N	2.53	0.42
2:Ci:115:ASN:C	3:Dj:119:LYS:NZ	2.77	0.42
2:Cj:56:PRO:C	2:Cj:57:THR:O	2.59	0.42
2:Cj:166:ARG:HD3	3:Dj:110:PHE:O	2.20	0.42
2:Cm:36:TYR:CE2	2:Cm:130:PRO:CG	2.98	0.42
2:Cm:55:GLY:HA2	2:Cm:56:PRO:HD3	1.80	0.42
2:Cm:77:HIS:HE1	2:Cm:144:GLU:HG2	1.84	0.42
2:Cm:166:ARG:HD3	3:Dm:110:PHE:O	2.20	0.42
2:Cp:135:THR:O	2:Cp:137:GLU:N	2.53	0.42
2:Cq:135:THR:HB	2:Cq:139:ALA:CB	2.50	0.42
2:Cs:68:GLU:O	2:Cs:69:TRP:C	2.63	0.42
2:Cs:135:THR:O	2:Cs:137:GLU:N	2.53	0.42
2:Ct:135:THR:O	2:Ct:137:GLU:N	2.53	0.42
2:Cu:129:VAL:HA	2:Cu:130:PRO:HD3	1.77	0.42
2:Cw:27:GLN:C	2:Cw:27:GLN:CD	2.87	0.42
2:Cx:27:GLN:CD	2:Cx:27:GLN:C	2.87	0.42
2:Cx:166:ARG:HD3	3:EE:110:PHE:O	2.20	0.42
3:D0:13:SER:O	3:D1:9:PRO:HD3	2.20	0.42
3:D1:121:LEU:C	3:D1:121:LEU:CD2	2.89	0.42
3:D2:84:GLU:C	3:D2:86:HIS:H	2.28	0.42
3:D3:13:SER:O	3:DZ:9:PRO:HD3	2.20	0.42
3:D3:43:PHE:O	3:D3:44:ILE:C	2.60	0.42
3:D5:217:ARG:HD3	3:D5:218:HIS:CD2	2.54	0.42
3:DA:103:SER:HB3	3:DA:159:PRO:CA	2.35	0.42
3:DA:119:LYS:HG2	3:DA:147:ASP:CG	2.45	0.42
3:DA:175:THR:HG1	3:DA:178:ASN:CG	2.28	0.42
3:DD:119:LYS:HG2	3:DD:147:ASP:CG	2.45	0.42
3:DE:101:ARG:HH12	3:DE:165:ASP:HB3	1.84	0.42
3:DE:175:THR:HG1	3:DE:178:ASN:CG	2.28	0.42
3:DK:84:GLU:C	3:DK:86:HIS:H	2.28	0.42
3:DL:36:VAL:HA	3:DL:37:PRO:HD3	1.53	0.42
3:DN:75:GLN:NE2	3:DN:184:GLN:OE1	2.49	0.42
3:DO:75:GLN:NE2	3:DO:184:GLN:OE1	2.49	0.42
3:DQ:86:HIS:ND1	3:DQ:86:HIS:C	2.77	0.42
3:DQ:98:ALA:HB2	3:DQ:220:VAL:HG21	2.01	0.42
3:DS:13:SER:O	3:DT:9:PRO:HD3	2.20	0.42
3:DS:175:THR:HG1	3:DS:178:ASN:CG	2.28	0.42
3:DT:101:ARG:HH12	3:DT:165:ASP:HB3	1.84	0.42
3:DW:101:ARG:HH12	3:DW:165:ASP:HB3	1.84	0.42
3:DY:84:GLU:C	3:DY:86:HIS:H	2.28	0.42
3:DY:98:ALA:HB2	3:DY:220:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:86:HIS:ND1	3:DZ:86:HIS:C	2.77	0.42
3:Da:119:LYS:HG2	3:Da:147:ASP:CG	2.45	0.42
3:Db:119:LYS:O	3:Db:120:PHE:CB	2.67	0.42
3:Dc:119:LYS:HG2	3:Dc:147:ASP:CG	2.45	0.42
3:Df:84:GLU:C	3:Df:86:HIS:H	2.28	0.42
3:Dg:13:SER:O	3:Dh:9:PRO:HD3	2.20	0.42
3:Di:84:GLU:C	3:Di:86:HIS:H	2.28	0.42
3:Dj:75:GLN:NE2	3:Dj:184:GLN:OE1	2.49	0.42
3:Dk:13:SER:O	3:Di:9:PRO:HD3	2.20	0.42
3:Dn:98:ALA:HB2	3:Dn:220:VAL:HG21	2.01	0.42
3:Dn:175:THR:HG1	3:Dn:178:ASN:CG	2.28	0.42
3:Dp:119:LYS:O	3:Dp:120:PHE:CB	2.67	0.42
3:Ds:75:GLN:NE2	3:Ds:184:GLN:OE1	2.49	0.42
3:Ds:103:SER:HB2	3:Ds:159:PRO:HA	1.95	0.42
3:Ds:119:LYS:O	3:Ds:120:PHE:CB	2.67	0.42
3:EB:13:SER:O	3:EC:9:PRO:HD3	2.20	0.42
3:EB:119:LYS:O	3:EB:120:PHE:CB	2.67	0.42
4:F2:21:ILE:HG22	4:F2:21:ILE:O	2.20	0.42
4:F3:29:GLN:HB2	4:F3:30:TYR:HD1	1.84	0.42
4:FF:29:GLN:HB2	4:FF:30:TYR:HD1	1.84	0.42
4:FG:21:ILE:O	4:FG:21:ILE:HG22	2.20	0.42
4:FH:21:ILE:HG22	4:FH:21:ILE:O	2.20	0.42
4:FM:21:ILE:O	4:FM:21:ILE:HG22	2.20	0.42
4:FS:21:ILE:HG22	4:FS:21:ILE:O	2.20	0.42
4:FX:29:GLN:HB2	4:FX:30:TYR:HD1	1.84	0.42
4:FZ:18:SER:O	4:FZ:23:GLN:NE2	2.52	0.42
4:Fd:21:ILE:O	4:Fd:21:ILE:HG22	2.20	0.42
4:Fh:29:GLN:HB2	4:Fh:30:TYR:HD1	1.84	0.42
4:Fm:18:SER:O	4:Fm:23:GLN:NE2	2.52	0.42
4:Fp:29:GLN:HB2	4:Fp:30:TYR:HD1	1.84	0.42
4:Fq:21:ILE:O	4:Fq:21:ILE:HG22	2.20	0.42
1:A0:72:LEU:O	1:A0:75:CYS:SG	2.76	0.42
1:A0:146:ILE:HD13	1:A0:146:ILE:HG21	1.74	0.42
1:A1:144:PHE:CD2	1:A1:154:CYS:HB3	2.54	0.42
1:A2:188:PRO:HG3	3:DZ:176:VAL:CG1	2.50	0.42
1:A3:48:LEU:HA	1:A3:198:THR:OG1	2.20	0.42
1:A3:144:PHE:CD2	1:A3:154:CYS:HB3	2.54	0.42
1:A6:147:ALA:C	1:A6:149:SER:H	2.28	0.42
1:A6:174:TRP:HB2	2:C7:188:LEU:CD2	2.44	0.42
1:A9:49:THR:CG2	1:A9:50:GLY:N	2.83	0.42
1:A9:146:ILE:HD13	1:A9:146:ILE:HG21	1.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:184:TYR:HE2	2:Ca:139:ALA:HB3	1.84	0.42
1:AA:79:PHE:CE2	1:AA:160:TYR:CD2	3.08	0.42
1:AA:109:VAL:HG22	1:AA:191:HIS:HD2	1.82	0.42
1:AA:147:ALA:C	1:AA:149:SER:H	2.28	0.42
1:AB:219:TYR:HA	3:DB:39:ARG:HA	2.02	0.42
1:AC:87:GLN:HA	1:AC:153:ALA:HB2	2.02	0.42
1:AC:101:PHE:O	1:AC:199:SER:OG	2.33	0.42
1:AC:106:TRP:CZ2	1:AC:158:VAL:HG13	2.54	0.42
1:AD:175:GLY:N	1:AD:183:THR:O	2.53	0.42
1:AE:219:TYR:HA	3:DE:39:ARG:HA	2.02	0.42
1:AF:106:TRP:CZ2	1:AF:158:VAL:HG13	2.54	0.42
1:AF:188:PRO:HG3	3:DG:176:VAL:CG1	2.50	0.42
1:AG:139:SER:HA	1:AG:140:PRO:HD3	1.62	0.42
1:AG:219:TYR:HA	3:DG:39:ARG:HA	2.02	0.42
1:AH:41:GLU:O	1:AH:42:THR:HB	2.19	0.42
1:AH:43:LEU:HD23	1:AH:43:LEU:H	1.81	0.42
1:AI:72:LEU:O	1:AI:75:CYS:SG	2.76	0.42
1:AI:79:PHE:CE2	1:AI:160:TYR:CD2	3.08	0.42
1:AI:128:VAL:O	1:AI:128:VAL:HG13	2.19	0.42
1:AJ:79:PHE:CE2	1:AJ:160:TYR:CD2	3.08	0.42
1:AJ:234:LYS:HA	1:AJ:234:LYS:HD3	1.89	0.42
1:AK:187:LEU:HD13	1:AK:187:LEU:C	2.44	0.42
1:AL:128:VAL:O	1:AL:128:VAL:HG13	2.19	0.42
1:AL:219:TYR:HA	3:DL:39:ARG:HA	2.02	0.42
1:AM:48:LEU:HA	1:AM:198:THR:OG1	2.20	0.42
1:AO:41:GLU:O	1:AO:42:THR:HB	2.19	0.42
1:AO:49:THR:CG2	1:AO:50:GLY:N	2.83	0.42
1:AP:224:ILE:HA	1:AP:225:PRO:HD2	1.86	0.42
1:AR:43:LEU:N	1:AR:43:LEU:CD2	2.74	0.42
1:AR:79:PHE:CE2	1:AR:160:TYR:CD2	3.08	0.42
1:AS:48:LEU:HA	1:AS:198:THR:OG1	2.20	0.42
1:AT:106:TRP:CZ2	1:AT:158:VAL:HG13	2.54	0.42
1:AT:219:TYR:HA	3:DU:39:ARG:HA	2.02	0.42
1:AU:87:GLN:HA	1:AU:153:ALA:HB2	2.02	0.42
1:AU:107:PHE:CE1	1:AU:196:LEU:HB2	2.55	0.42
1:AV:48:LEU:HA	1:AV:198:THR:OG1	2.20	0.42
1:AV:74:THR:O	1:AV:74:THR:HG22	2.19	0.42
1:AV:101:PHE:O	1:AV:199:SER:OG	2.33	0.42
1:AV:147:ALA:C	1:AV:149:SER:H	2.28	0.42
1:AW:49:THR:CG2	1:AW:50:GLY:N	2.83	0.42
1:AX:147:ALA:C	1:AX:149:SER:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:41:GLU:O	1:AY:42:THR:HB	2.19	0.42
1:AZ:187:LEU:HD13	1:AZ:187:LEU:C	2.44	0.42
1:Aa:219:TYR:HA	3:Dc:39:ARG:HA	2.02	0.42
1:Ab:41:GLU:O	1:Ab:42:THR:HB	2.19	0.42
1:Ab:65:GLN:HG2	1:Ab:70:ARG:HD2	2.01	0.42
1:Ab:107:PHE:CE1	1:Ab:196:LEU:HB2	2.55	0.42
1:Ac:87:GLN:HA	1:Ac:153:ALA:HB2	2.02	0.42
1:Ac:187:LEU:HD13	1:Ac:187:LEU:C	2.44	0.42
1:Ad:132:GLN:OE1	1:Ae:66:LEU:HD21	2.20	0.42
1:Ae:62:SER:HB2	1:Ae:73:ASN:ND2	2.27	0.42
1:Ae:147:ALA:C	1:Ae:149:SER:H	2.28	0.42
1:Af:112:PRO:CG	3:Di:223:PRO:HD3	2.50	0.42
1:Ag:219:TYR:HA	3:Di:39:ARG:HA	2.02	0.42
1:Aj:48:LEU:HA	1:Aj:198:THR:OG1	2.20	0.42
1:Al:175:GLY:N	1:Al:183:THR:O	2.53	0.42
1:An:43:LEU:HD23	1:An:43:LEU:H	1.81	0.42
1:Ao:49:THR:CG2	1:Ao:50:GLY:N	2.83	0.42
1:Ao:65:GLN:HG2	1:Ao:70:ARG:HD2	2.01	0.42
1:Ao:174:TRP:HB2	2:CS:188:LEU:CD2	2.44	0.42
1:BA:88:PHE:CA	1:BA:207:CYS:HA	2.48	0.42
1:BA:128:VAL:O	1:BA:128:VAL:HG13	2.19	0.42
1:BD:106:TRP:CZ2	1:BD:158:VAL:HG13	2.54	0.42
1:BE:146:ILE:HG22	1:BE:146:ILE:O	2.17	0.42
1:BF:184:TYR:HE2	2:Cu:139:ALA:HB3	1.84	0.42
1:BG:65:GLN:HG2	1:BG:70:ARG:HD2	2.01	0.42
1:BG:87:GLN:HA	1:BG:153:ALA:HB2	2.02	0.42
1:BG:112:PRO:CG	3:ED:223:PRO:HD3	2.50	0.42
1:BG:164:TRP:HE1	1:BG:187:LEU:CD1	2.28	0.42
1:BG:184:TYR:HE2	2:Cv:139:ALA:HB3	1.84	0.42
1:BG:219:TYR:HA	3:EC:39:ARG:HA	2.02	0.42
1:BH:87:GLN:HA	1:BH:153:ALA:HB2	2.02	0.42
1:BH:188:PRO:HG3	3:EE:176:VAL:CG1	2.50	0.42
1:BI:41:GLU:O	1:BI:42:THR:HB	2.19	0.42
1:BI:87:GLN:HA	1:BI:153:ALA:HB2	2.02	0.42
1:BI:184:TYR:CE2	2:Cx:139:ALA:CB	3.03	0.42
2:C1:55:GLY:HA2	2:C1:56:PRO:HD3	1.80	0.42
2:C7:33:THR:HG21	2:C7:160:HIS:O	2.20	0.42
2:C7:77:HIS:HE1	2:C7:144:GLU:HG2	1.84	0.42
2:C7:166:ARG:HD3	3:D7:110:PHE:O	2.20	0.42
2:C8:135:THR:O	2:C8:137:GLU:N	2.53	0.42
2:C9:68:GLU:O	2:C9:69:TRP:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:77:HIS:HE1	2:C9:144:GLU:HG2	1.84	0.42
2:CB:49:ASP:HA	2:CB:50:PRO:HD2	1.80	0.42
2:CD:25:ASN:O	2:CD:26:SER:HB3	2.18	0.42
2:CD:135:THR:O	2:CD:137:GLU:N	2.53	0.42
2:CG:58:LEU:HB3	2:CG:59:SER:H	1.65	0.42
2:CI:77:HIS:HE1	2:CI:144:GLU:HG2	1.84	0.42
2:CI:135:THR:HB	2:CI:139:ALA:CB	2.50	0.42
2:CJ:13:ARG:HA	2:CJ:13:ARG:HD3	1.72	0.42
2:CN:207:GLN:HB3	3:D2:196:ILE:HG21	2.01	0.42
2:CO:207:GLN:HB3	3:DP:196:ILE:HG21	2.01	0.42
2:CP:25:ASN:O	2:CP:26:SER:HB3	2.18	0.42
2:CP:69:TRP:HZ2	2:CP:198:ILE:HG23	1.84	0.42
2:CP:180:PRO:HD2	2:CP:189:HIS:HE1	1.76	0.42
2:CQ:68:GLU:O	2:CQ:69:TRP:C	2.63	0.42
2:CQ:153:GLN:HE22	3:DQ:55:SER:CB	2.33	0.42
2:CS:26:SER:C	3:Dc:147:ASP:HB3	2.45	0.42
2:CS:166:ARG:HD3	3:DS:110:PHE:O	2.20	0.42
2:CT:77:HIS:HE1	2:CT:144:GLU:HG2	1.84	0.42
2:CU:69:TRP:HZ2	2:CU:198:ILE:HG23	1.85	0.42
2:CU:135:THR:HB	2:CU:139:ALA:CB	2.50	0.42
2:CV:166:ARG:HD3	3:DV:110:PHE:O	2.20	0.42
2:CW:77:HIS:HE1	2:CW:144:GLU:HG2	1.84	0.42
2:CY:22:THR:HG23	2:CY:22:THR:O	2.18	0.42
2:Ca:22:THR:HG23	2:Ca:22:THR:O	2.19	0.42
2:Ca:166:ARG:HD3	3:Da:110:PHE:O	2.20	0.42
2:Cb:33:THR:HG21	2:Cb:160:HIS:O	2.20	0.42
2:Cb:69:TRP:HZ2	2:Cb:198:ILE:HG23	1.85	0.42
2:Ce:83:LEU:HA	2:Ce:84:PRO:HA	1.60	0.42
2:Cf:22:THR:O	2:Cf:22:THR:HG23	2.18	0.42
2:Cj:46:THR:CG2	3:Dk:165:ASP:HA	2.38	0.42
2:Cl:166:ARG:HD3	3:Dl:110:PHE:O	2.20	0.42
2:Cn:180:PRO:HD2	2:Cn:189:HIS:HE1	1.76	0.42
2:Co:83:LEU:HA	2:Co:84:PRO:HA	1.60	0.42
2:Co:152:TYR:HB3	2:Co:197:LEU:HD22	2.00	0.42
2:Cs:135:THR:HB	2:Cs:139:ALA:CB	2.50	0.42
2:Ct:26:SER:C	3:DH:147:ASP:HB3	2.45	0.42
2:Ct:65:LYS:CB	3:DH:135:ARG:HH21	2.29	0.42
2:Cu:22:THR:HG23	2:Cu:22:THR:O	2.18	0.42
2:Cv:26:SER:C	3:Dd:147:ASP:HB3	2.45	0.42
2:Cv:69:TRP:HZ2	2:Cv:198:ILE:HG23	1.85	0.42
3:D1:84:GLU:C	3:D1:86:HIS:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:101:ARG:HH12	3:D2:165:ASP:HB3	1.84	0.42
3:D4:98:ALA:HB2	3:D4:220:VAL:HG21	2.01	0.42
3:D4:175:THR:HG1	3:D4:178:ASN:CG	2.28	0.42
3:D5:175:THR:OG1	3:D5:178:ASN:ND2	2.51	0.42
3:D9:75:GLN:NE2	3:D9:184:GLN:OE1	2.49	0.42
3:D9:86:HIS:ND1	3:D9:86:HIS:C	2.77	0.42
3:DC:13:SER:O	3:DD:9:PRO:HD3	2.20	0.42
3:DE:84:GLU:C	3:DE:86:HIS:H	2.28	0.42
3:DE:134:THR:HG1	3:DE:137:GLU:HG3	1.84	0.42
3:DF:75:GLN:NE2	3:DF:184:GLN:OE1	2.49	0.42
3:DF:115:ALA:CB	3:DF:194:THR:OG1	2.67	0.42
3:DG:175:THR:HG1	3:DG:178:ASN:CG	2.28	0.42
3:DH:115:ALA:CB	3:DH:194:THR:OG1	2.67	0.42
3:DH:119:LYS:HG2	3:DH:147:ASP:CG	2.45	0.42
3:DJ:119:LYS:O	3:DJ:120:PHE:CB	2.67	0.42
3:DK:175:THR:HG1	3:DK:178:ASN:CG	2.28	0.42
3:DL:98:ALA:HB2	3:DL:220:VAL:HG21	2.01	0.42
3:DL:175:THR:HG1	3:DL:178:ASN:CG	2.28	0.42
3:DO:217:ARG:HD3	3:DO:218:HIS:CD2	2.54	0.42
3:DQ:13:SER:O	3:DR:9:PRO:HD3	2.20	0.42
3:DV:98:ALA:HB2	3:DV:220:VAL:HG21	2.01	0.42
3:DW:103:SER:HB2	3:DW:159:PRO:HA	1.95	0.42
3:DX:13:SER:O	3:DY:9:PRO:HD3	2.20	0.42
3:DX:86:HIS:ND1	3:DX:86:HIS:C	2.77	0.42
3:Da:175:THR:HG1	3:Da:178:ASN:CG	2.28	0.42
3:Dc:217:ARG:HD3	3:Dc:218:HIS:CD2	2.54	0.42
3:De:9:PRO:HD3	3:Di:13:SER:O	2.20	0.42
3:Df:13:SER:O	3:Dg:9:PRO:HD3	2.20	0.42
3:Df:119:LYS:HG2	3:Df:147:ASP:CG	2.45	0.42
3:Dj:13:SER:O	3:Dk:9:PRO:HD3	2.20	0.42
3:Dj:84:GLU:C	3:Dj:86:HIS:H	2.28	0.42
3:Dl:98:ALA:HB2	3:Dl:220:VAL:HG21	2.01	0.42
3:Dm:86:HIS:ND1	3:Dm:86:HIS:C	2.77	0.42
3:Dn:119:LYS:HG2	3:Dn:147:ASP:CG	2.45	0.42
3:Do:43:PHE:O	3:Do:44:ILE:C	2.60	0.42
3:Dq:115:ALA:CB	3:Dq:194:THR:OG1	2.67	0.42
3:Dr:175:THR:HG1	3:Dr:178:ASN:CG	2.28	0.42
3:EB:84:GLU:C	3:EB:86:HIS:H	2.28	0.42
3:EB:119:LYS:HG2	3:EB:147:ASP:CG	2.45	0.42
3:ED:119:LYS:HG2	3:ED:147:ASP:CG	2.45	0.42
4:F0:21:ILE:O	4:F0:21:ILE:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F4:21:ILE:HG22	4:F4:21:ILE:O	2.20	0.42
4:F4:31:GLN:HA	4:F4:31:GLN:HE21	1.85	0.42
4:F4:32:ASN:HB3	4:F4:33:SER:H	1.58	0.42
4:F8:29:GLN:HB2	4:F8:30:TYR:HD1	1.84	0.42
4:FC:21:ILE:O	4:FC:21:ILE:HG22	2.20	0.42
4:FG:32:ASN:HB3	4:FG:33:SER:H	1.58	0.42
4:FH:29:GLN:HB2	4:FH:30:TYR:HD1	1.84	0.42
4:FI:21:ILE:HG22	4:FI:21:ILE:O	2.20	0.42
4:FN:29:GLN:HB2	4:FN:30:TYR:HD1	1.84	0.42
4:FR:21:ILE:HG22	4:FR:21:ILE:O	2.20	0.42
4:Fb:29:GLN:HB2	4:Fb:30:TYR:HD1	1.84	0.42
4:Fd:18:SER:O	4:Fd:23:GLN:NE2	2.52	0.42
4:Fl:18:SER:O	4:Fl:23:GLN:NE2	2.52	0.42
4:Fn:29:GLN:HB2	4:Fn:30:TYR:HD1	1.84	0.42
4:Fr:29:GLN:HB2	4:Fr:30:TYR:HD1	1.84	0.42
1:A0:87:GLN:HA	1:A0:153:ALA:HB2	2.02	0.42
1:A0:132:GLN:OE1	1:A1:66:LEU:HD21	2.20	0.42
1:A1:49:THR:CG2	1:A1:50:GLY:N	2.83	0.42
1:A1:188:PRO:HG3	3:D3:176:VAL:CG1	2.50	0.42
1:A2:48:LEU:HA	1:A2:198:THR:OG1	2.20	0.42
1:A2:49:THR:CG2	1:A2:50:GLY:N	2.83	0.42
1:A3:49:THR:CG2	1:A3:50:GLY:N	2.83	0.42
1:A3:170:PHE:HD2	1:A3:222:ARG:NH1	2.17	0.42
1:A3:219:TYR:HA	3:D4:39:ARG:HA	2.02	0.42
1:A4:79:PHE:CE2	1:A4:160:TYR:CD2	3.08	0.42
1:A4:93:THR:O	1:A4:95:SER:N	2.53	0.42
1:A5:79:PHE:CE2	1:A5:160:TYR:CD2	3.08	0.42
1:A6:65:GLN:HG2	1:A6:70:ARG:HD2	2.01	0.42
1:A6:144:PHE:CD2	1:A6:154:CYS:HB3	2.54	0.42
1:A6:219:TYR:HD2	3:D7:39:ARG:HB2	1.79	0.42
1:A7:172:ASN:OD1	1:A7:184:TYR:OH	2.27	0.42
1:A7:225:PRO:HA	1:A7:226:PRO:HD2	1.88	0.42
1:A8:66:LEU:HD21	1:Ab:132:GLN:OE1	2.20	0.42
1:A9:107:PHE:CE1	1:A9:196:LEU:HB2	2.55	0.42
1:A9:128:VAL:O	1:A9:128:VAL:HG13	2.19	0.42
1:A9:184:TYR:CE2	2:Ca:139:ALA:CB	3.03	0.42
1:AA:175:GLY:N	1:AA:183:THR:O	2.53	0.42
1:AA:187:LEU:HD13	1:AA:187:LEU:C	2.44	0.42
1:AB:65:GLN:HG2	1:AB:70:ARG:HD2	2.01	0.42
1:AD:79:PHE:CE2	1:AD:160:TYR:CD2	3.08	0.42
1:AF:147:ALA:C	1:AF:149:SER:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:175:GLY:N	1:AF:183:THR:O	2.52	0.42
1:AH:74:THR:O	1:AH:74:THR:HG22	2.19	0.42
1:AH:147:ALA:C	1:AH:149:SER:H	2.28	0.42
1:AJ:65:GLN:HG2	1:AJ:70:ARG:HD2	2.01	0.42
1:AJ:87:GLN:HA	1:AJ:153:ALA:HB2	2.02	0.42
1:AL:48:LEU:HA	1:AL:198:THR:OG1	2.20	0.42
1:AM:93:THR:O	1:AM:95:SER:N	2.53	0.42
1:AM:103:TRP:CZ2	1:AN:208:TYR:CE2	3.06	0.42
1:AM:107:PHE:CE1	1:AM:196:LEU:HB2	2.55	0.42
1:AM:132:GLN:OE1	1:AN:66:LEU:HD21	2.20	0.42
1:AM:147:ALA:C	1:AM:149:SER:H	2.28	0.42
1:AM:201:ALA:O	1:AM:202:HIS:HD2	2.01	0.42
1:AM:224:ILE:HD11	3:DM:89:TYR:CE1	2.55	0.42
1:AN:49:THR:CG2	1:AN:50:GLY:N	2.83	0.42
1:AN:79:PHE:CE2	1:AN:160:TYR:CD2	3.08	0.42
1:AP:79:PHE:CE2	1:AP:160:TYR:CD2	3.08	0.42
1:AP:121:LEU:HD21	1:AQ:206:GLY:CA	2.47	0.42
1:AQ:107:PHE:CE1	1:AQ:196:LEU:HB2	2.55	0.42
1:AQ:128:VAL:O	1:AQ:128:VAL:HG13	2.19	0.42
1:AQ:188:PRO:HG3	3:DR:176:VAL:CG1	2.50	0.42
1:AQ:219:TYR:HA	3:DQ:39:ARG:HA	2.02	0.42
1:AR:93:THR:O	1:AR:95:SER:N	2.53	0.42
1:AT:48:LEU:HA	1:AT:198:THR:OG1	2.20	0.42
1:AU:41:GLU:O	1:AU:42:THR:HB	2.19	0.42
1:AU:49:THR:CG2	1:AU:50:GLY:N	2.83	0.42
1:AU:132:GLN:OE1	1:AV:66:LEU:HD21	2.20	0.42
1:AV:175:GLY:N	1:AV:183:THR:O	2.53	0.42
1:AV:188:PRO:HG3	3:DX:176:VAL:CG1	2.50	0.42
1:AW:87:GLN:HA	1:AW:153:ALA:HB2	2.02	0.42
1:AX:65:GLN:HG2	1:AX:70:ARG:HD2	2.01	0.42
1:AY:87:GLN:HA	1:AY:153:ALA:HB2	2.02	0.42
1:AY:132:GLN:OE1	1:AZ:66:LEU:HD21	2.20	0.42
1:AZ:49:THR:CG2	1:AZ:50:GLY:N	2.83	0.42
1:AZ:87:GLN:HA	1:AZ:153:ALA:HB2	2.02	0.42
1:AZ:107:PHE:CE1	1:AZ:196:LEU:HB2	2.55	0.42
1:AZ:128:VAL:O	1:AZ:128:VAL:HG13	2.19	0.42
1:Aa:175:GLY:N	1:Aa:183:THR:O	2.53	0.42
1:Ab:225:PRO:HA	1:Ab:226:PRO:HD2	1.87	0.42
1:Ac:66:LEU:HD21	1:Ag:132:GLN:OE1	2.20	0.42
1:Ac:115:THR:HG23	1:Ac:133:LEU:N	2.25	0.42
1:Ac:219:TYR:HA	3:De:39:ARG:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ae:79:PHE:CE2	1:Ae:160:TYR:CD2	3.08	0.42
1:Ae:175:GLY:N	1:Ae:183:THR:O	2.52	0.42
1:Ae:243:ILE:H	1:Ae:243:ILE:HG13	1.70	0.42
1:Ah:128:VAL:O	1:Ah:128:VAL:HG13	2.19	0.42
1:Ai:49:THR:CG2	1:Ai:50:GLY:N	2.83	0.42
1:Ai:79:PHE:CE2	1:Ai:160:TYR:CD2	3.08	0.42
1:Aj:79:PHE:CE2	1:Aj:160:TYR:CD2	3.08	0.42
1:Ak:62:SER:O	1:Ak:63:THR:CB	2.66	0.42
1:Ak:65:GLN:HG2	1:Ak:70:ARG:HD2	2.01	0.42
1:Al:101:PHE:CD2	1:Al:143:VAL:CG1	2.91	0.42
1:Am:49:THR:CG2	1:Am:50:GLY:N	2.83	0.42
1:An:219:TYR:HA	3:Db:39:ARG:HA	2.02	0.42
1:Ao:112:PRO:CG	3:DT:223:PRO:HD3	2.50	0.42
1:Ao:184:TYR:HE2	2:CS:139:ALA:HB3	1.84	0.42
1:BA:184:TYR:HE2	2:Cp:139:ALA:HB3	1.84	0.42
1:BA:219:TYR:HA	3:Dp:39:ARG:HA	2.02	0.42
1:BB:48:LEU:HA	1:BB:198:THR:OG1	2.20	0.42
1:BB:87:GLN:HA	1:BB:153:ALA:HB2	2.02	0.42
1:BB:132:GLN:OE1	1:BC:66:LEU:HD21	2.20	0.42
1:BC:62:SER:O	1:BC:63:THR:CB	2.66	0.42
1:BE:175:GLY:N	1:BE:183:THR:O	2.52	0.42
1:BE:191:HIS:HB2	1:BE:192:PHE:H	1.71	0.42
1:BE:219:TYR:HA	3:EA:39:ARG:HA	2.02	0.42
1:BF:40:VAL:HB	1:BF:68:TRP:CH2	2.53	0.42
1:BF:48:LEU:HA	1:BF:198:THR:OG1	2.20	0.42
1:BF:184:TYR:CE2	2:Cu:139:ALA:CB	3.03	0.42
1:BF:188:PRO:HG3	3:EC:176:VAL:CG1	2.50	0.42
1:BG:41:GLU:O	1:BG:42:THR:HB	2.19	0.42
1:BG:175:GLY:N	1:BG:183:THR:O	2.53	0.42
1:BH:74:THR:O	1:BH:74:THR:HG22	2.19	0.42
1:BH:88:PHE:CA	1:BH:207:CYS:HA	2.48	0.42
1:BI:72:LEU:O	1:BI:75:CYS:SG	2.76	0.42
1:BI:187:LEU:C	1:BI:187:LEU:HD13	2.44	0.42
1:BI:219:TYR:HA	3:EE:39:ARG:HA	2.02	0.42
2:C0:135:THR:HB	2:C0:139:ALA:CB	2.50	0.42
2:C1:166:ARG:HD3	3:D1:110:PHE:O	2.20	0.42
2:C1:216:ALA:HA	2:C1:217:PRO:HD3	1.78	0.42
2:C2:68:GLU:O	2:C2:69:TRP:C	2.63	0.42
2:C2:135:THR:O	2:C2:137:GLU:N	2.53	0.42
2:C3:207:GLN:HB3	3:DU:196:ILE:HG21	2.01	0.42
2:C5:25:ASN:O	2:C5:26:SER:HB3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:27:GLN:CD	2:CB:27:GLN:C	2.87	0.42
2:CC:166:ARG:HD3	3:DC:110:PHE:O	2.20	0.42
2:CE:36:TYR:CE2	2:CE:130:PRO:CG	2.98	0.42
2:CE:55:GLY:HA2	2:CE:56:PRO:HD3	1.80	0.42
2:CE:135:THR:HB	2:CE:139:ALA:CB	2.50	0.42
2:CF:22:THR:O	2:CF:22:THR:HG23	2.18	0.42
2:CF:135:THR:O	2:CF:137:GLU:N	2.53	0.42
2:CG:22:THR:O	2:CG:22:THR:HG23	2.19	0.42
2:CI:25:ASN:O	2:CI:26:SER:HB3	2.18	0.42
2:CJ:33:THR:HG21	2:CJ:160:HIS:O	2.20	0.42
2:CJ:135:THR:O	2:CJ:137:GLU:N	2.53	0.42
2:CK:65:LYS:CB	3:Db:135:ARG:HH21	2.29	0.42
2:CM:69:TRP:HZ2	2:CM:198:ILE:HG23	1.84	0.42
2:CN:26:SER:C	3:D2:147:ASP:HB3	2.45	0.42
2:CN:135:THR:HB	2:CN:139:ALA:CB	2.50	0.42
2:CO:65:LYS:CB	3:DP:135:ARG:HH21	2.29	0.42
2:CO:135:THR:HB	2:CO:139:ALA:CB	2.50	0.42
2:CR:33:THR:HG21	2:CR:160:HIS:O	2.20	0.42
2:CR:69:TRP:HZ2	2:CR:198:ILE:HG23	1.84	0.42
2:CR:166:ARG:HD3	3:DR:110:PHE:O	2.20	0.42
2:CS:115:ASN:C	3:Dc:119:LYS:NZ	2.77	0.42
2:CU:77:HIS:HE1	2:CU:144:GLU:HG2	1.84	0.42
2:CV:26:SER:C	3:DB:147:ASP:HB3	2.45	0.42
2:CV:27:GLN:C	2:CV:27:GLN:CD	2.87	0.42
2:CW:27:GLN:CD	2:CW:27:GLN:C	2.87	0.42
2:CX:26:SER:C	3:Dr:147:ASP:HB3	2.45	0.42
2:CY:33:THR:HG21	2:CY:160:HIS:O	2.20	0.42
2:CZ:77:HIS:HE1	2:CZ:144:GLU:HG2	1.84	0.42
2:Ca:69:TRP:HZ2	2:Ca:198:ILE:HG23	1.84	0.42
2:Ca:135:THR:O	2:Ca:137:GLU:N	2.53	0.42
2:Cb:166:ARG:HD3	3:Db:110:PHE:O	2.20	0.42
2:Cd:33:THR:HG21	2:Cd:160:HIS:O	2.20	0.42
2:Cd:55:GLY:HA2	2:Cd:56:PRO:HD3	1.80	0.42
2:Cf:26:SER:C	3:DV:147:ASP:HB3	2.45	0.42
2:Cf:129:VAL:HA	2:Cf:130:PRO:HD3	1.78	0.42
2:Cg:69:TRP:HZ2	2:Cg:198:ILE:HG23	1.84	0.42
2:Ch:26:SER:C	3:DN:147:ASP:HB3	2.45	0.42
2:Ci:26:SER:C	3:Dj:147:ASP:HB3	2.45	0.42
2:Ci:58:LEU:HB3	2:Ci:59:SER:H	1.65	0.42
2:Ck:27:GLN:C	2:Ck:27:GLN:CD	2.87	0.42
2:Ck:135:THR:HB	2:Ck:139:ALA:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cl:33:THR:HG21	2:Cl:160:HIS:O	2.20	0.42
2:Cl:69:TRP:HZ2	2:Cl:198:ILE:HG23	1.84	0.42
2:Cl:135:THR:HB	2:Cl:139:ALA:CB	2.50	0.42
2:Cm:57:THR:O	2:Cm:58:LEU:CB	2.66	0.42
2:Cm:135:THR:HB	2:Cm:139:ALA:CB	2.50	0.42
2:Cp:216:ALA:HA	2:Cp:217:PRO:HD3	1.78	0.42
2:Cq:42:ARG:HA	2:Cq:43:PRO:HD2	1.64	0.42
2:Cq:69:TRP:HZ2	2:Cq:198:ILE:HG23	1.84	0.42
2:Cr:55:GLY:HA2	2:Cr:56:PRO:HD3	1.80	0.42
2:Cr:135:THR:O	2:Cr:137:GLU:N	2.53	0.42
2:Cs:117:SER:HB3	3:EA:192:THR:CG2	2.47	0.42
2:Ct:212:THR:HG23	3:DH:188:LEU:HD22	1.96	0.42
2:Cv:57:THR:O	2:Cv:59:SER:N	2.52	0.42
2:Cv:103:LEU:O	2:Cv:223:ASN:ND2	2.49	0.42
2:Cw:22:THR:HG23	2:Cw:22:THR:O	2.19	0.42
2:Cw:26:SER:C	3:DS:147:ASP:HB3	2.45	0.42
2:Cw:103:LEU:HD21	3:EE:163:PRO:HD3	2.01	0.42
3:D0:9:PRO:HD3	3:DZ:13:SER:O	2.20	0.42
3:D6:79:SER:O	3:D6:81:SER:N	2.51	0.42
3:D7:36:VAL:HA	3:D7:37:PRO:HD3	1.53	0.42
3:D8:84:GLU:C	3:D8:86:HIS:H	2.28	0.42
3:D9:175:THR:HG1	3:D9:178:ASN:CG	2.28	0.42
3:DA:13:SER:O	3:DB:9:PRO:HD3	2.20	0.42
3:DB:119:LYS:O	3:DB:120:PHE:CB	2.67	0.42
3:DC:98:ALA:HB2	3:DC:220:VAL:HG21	2.01	0.42
3:DD:84:GLU:C	3:DD:86:HIS:H	2.28	0.42
3:DM:98:ALA:HB2	3:DM:220:VAL:HG21	2.02	0.42
3:DN:121:LEU:C	3:DN:121:LEU:CD2	2.89	0.42
3:DQ:84:GLU:C	3:DQ:86:HIS:H	2.28	0.42
3:DR:98:ALA:HB2	3:DR:220:VAL:HG21	2.01	0.42
3:DS:84:GLU:C	3:DS:86:HIS:H	2.28	0.42
3:DS:119:LYS:O	3:DS:120:PHE:CB	2.67	0.42
3:DU:98:ALA:HB2	3:DU:220:VAL:HG21	2.01	0.42
3:DV:79:SER:O	3:DV:81:SER:N	2.51	0.42
3:DX:175:THR:HG1	3:DX:178:ASN:CG	2.28	0.42
3:Db:98:ALA:HB2	3:Db:220:VAL:HG21	2.01	0.42
3:Dd:84:GLU:C	3:Dd:86:HIS:H	2.28	0.42
3:De:119:LYS:HG2	3:De:147:ASP:CG	2.45	0.42
3:Dg:84:GLU:C	3:Dg:86:HIS:H	2.28	0.42
3:Dg:175:THR:HG1	3:Dg:178:ASN:CG	2.28	0.42
3:Dk:84:GLU:C	3:Dk:86:HIS:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dk:120:PHE:HD2	3:Dk:146:TRP:CZ2	2.38	0.42
3:Dl:119:LYS:HG2	3:Dl:147:ASP:CG	2.45	0.42
3:Dm:217:ARG:HD3	3:Dm:218:HIS:CD2	2.54	0.42
3:Do:84:GLU:C	3:Do:86:HIS:H	2.28	0.42
3:Do:217:ARG:HD3	3:Do:218:HIS:CD2	2.54	0.42
3:Dp:101:ARG:HH12	3:Dp:165:ASP:HB3	1.84	0.42
3:Dq:84:GLU:C	3:Dq:86:HIS:H	2.28	0.42
3:Dr:13:SER:O	3:Ds:9:PRO:HD3	2.20	0.42
3:EC:98:ALA:HB2	3:EC:220:VAL:HG21	2.01	0.42
3:ED:13:SER:O	3:EE:9:PRO:HD3	2.20	0.42
4:F4:18:SER:O	4:F4:23:GLN:NE2	2.52	0.42
4:FE:21:ILE:O	4:FE:21:ILE:HG22	2.20	0.42
4:FL:21:ILE:HG22	4:FL:21:ILE:O	2.20	0.42
4:FP:21:ILE:O	4:FP:21:ILE:HG22	2.20	0.42
4:Fc:21:ILE:O	4:Fc:21:ILE:HG22	2.20	0.42
4:Fh:18:SER:O	4:Fh:23:GLN:NE2	2.52	0.42
4:Fl:21:ILE:HG22	4:Fl:21:ILE:O	2.20	0.42
4:Fm:21:ILE:O	4:Fm:21:ILE:HG22	2.20	0.42
4:Fo:29:GLN:HB2	4:Fo:30:TYR:HD1	1.84	0.42
4:Fq:29:GLN:HB2	4:Fq:30:TYR:HD1	1.84	0.42
4:Fw:29:GLN:HB2	4:Fw:30:TYR:HD1	1.84	0.42
1:A0:65:GLN:HG2	1:A0:70:ARG:HD2	2.01	0.42
1:A0:79:PHE:CE2	1:A0:160:TYR:CD2	3.08	0.42
1:A0:92:THR:HB	1:A0:93:THR:H	1.62	0.42
1:A0:219:TYR:HA	3:D1:39:ARG:HA	2.02	0.42
1:A1:74:THR:O	1:A1:74:THR:HG22	2.19	0.42
1:A2:143:VAL:H	3:DZ:14:PHE:CB	2.28	0.42
1:A2:219:TYR:HD2	3:D3:39:ARG:HB2	1.79	0.42
1:A4:49:THR:CG2	1:A4:50:GLY:N	2.83	0.42
1:A4:184:TYR:HE2	2:C5:139:ALA:HB3	1.84	0.42
1:A4:239:PHE:CD2	3:D5:226:GLN:NE2	2.87	0.42
1:A5:87:GLN:O	1:A5:88:PHE:CB	2.62	0.42
1:A5:106:TRP:CZ2	1:A5:158:VAL:HG13	2.54	0.42
1:A6:170:PHE:HD2	1:A6:222:ARG:NH1	2.17	0.42
1:A6:184:TYR:CE2	2:C7:139:ALA:CB	3.03	0.42
1:A7:65:GLN:HG2	1:A7:70:ARG:HD2	2.01	0.42
1:A7:106:TRP:CZ2	1:A7:158:VAL:HG13	2.54	0.42
1:A8:187:LEU:HD13	1:A8:187:LEU:C	2.44	0.42
1:A8:188:PRO:HG3	3:Da:176:VAL:CG1	2.50	0.42
1:A9:62:SER:HB2	1:A9:73:ASN:ND2	2.27	0.42
1:A9:62:SER:O	1:A9:63:THR:CB	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:48:LEU:HA	1:AB:198:THR:OG1	2.20	0.42
1:AB:79:PHE:CE2	1:AB:160:TYR:CD2	3.08	0.42
1:AD:184:TYR:HE2	2:CD:139:ALA:HB3	1.84	0.42
1:AE:224:ILE:HD11	3:DE:89:TYR:CE1	2.55	0.42
1:AF:79:PHE:CE2	1:AF:160:TYR:CD2	3.08	0.42
1:AG:43:LEU:HD23	1:AG:43:LEU:H	1.81	0.42
1:AG:147:ALA:C	1:AG:149:SER:H	2.28	0.42
1:AH:132:GLN:OE1	1:AI:66:LEU:HD21	2.20	0.42
1:AH:219:TYR:HA	3:DH:39:ARG:HA	2.02	0.42
1:AI:74:THR:O	1:AI:74:THR:HG22	2.19	0.42
1:AI:170:PHE:HD2	1:AI:222:ARG:NH1	2.17	0.42
1:AJ:107:PHE:CE1	1:AJ:196:LEU:HB2	2.55	0.42
1:AJ:146:ILE:HD13	1:AJ:146:ILE:HG21	1.74	0.42
1:AK:49:THR:CG2	1:AK:50:GLY:N	2.83	0.42
1:AK:107:PHE:CE1	1:AK:196:LEU:HB2	2.55	0.42
1:AK:184:TYR:HE2	2:CK:139:ALA:HB3	1.84	0.42
1:AL:65:GLN:HG2	1:AL:70:ARG:HD2	2.01	0.42
1:AN:88:PHE:CA	1:AN:207:CYS:HA	2.48	0.42
1:AN:146:ILE:HD13	1:AN:146:ILE:HG21	1.74	0.42
1:AO:48:LEU:HA	1:AO:198:THR:OG1	2.20	0.42
1:AO:188:PRO:HG3	3:DK:176:VAL:CG1	2.50	0.42
1:AP:103:TRP:CZ2	1:AQ:208:TYR:CE2	3.06	0.42
1:AP:106:TRP:CZ2	1:AP:158:VAL:HG13	2.54	0.42
1:AQ:224:ILE:HD11	3:DQ:89:TYR:CE1	2.55	0.42
1:AS:65:GLN:HG2	1:AS:70:ARG:HD2	2.01	0.42
1:AT:49:THR:CG2	1:AT:50:GLY:N	2.83	0.42
1:AU:188:PRO:HG3	3:DW:176:VAL:CG1	2.50	0.42
1:AU:219:TYR:HA	3:DV:39:ARG:HA	2.02	0.42
1:AV:79:PHE:CE2	1:AV:160:TYR:CD2	3.08	0.42
1:AV:101:PHE:CD2	1:AV:143:VAL:CG1	2.91	0.42
1:AV:184:TYR:CE2	2:CW:139:ALA:CB	3.03	0.42
1:AX:106:TRP:CZ2	1:AX:158:VAL:HG13	2.54	0.42
1:AY:79:PHE:CE2	1:AY:160:TYR:CD2	3.08	0.42
1:AY:93:THR:O	1:AY:95:SER:N	2.53	0.42
1:AZ:235:THR:HB	1:AZ:236:ARG:H	1.65	0.42
1:Aa:87:GLN:HA	1:Aa:153:ALA:HB2	2.02	0.42
1:Ab:219:TYR:HA	3:Dd:39:ARG:HA	2.02	0.42
1:Ac:188:PRO:HG3	3:Df:176:VAL:CG1	2.50	0.42
1:Ad:41:GLU:O	1:Ad:42:THR:HB	2.19	0.42
1:Ad:87:GLN:HA	1:Ad:153:ALA:HB2	2.02	0.42
1:Ad:164:TRP:HE1	1:Ad:187:LEU:CD1	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ae:107:PHE:CE1	1:Ae:196:LEU:HB2	2.55	0.42
1:Ae:128:VAL:O	1:Ae:128:VAL:HG13	2.19	0.42
1:Ah:87:GLN:HA	1:Ah:153:ALA:HB2	2.02	0.42
1:Ah:144:PHE:CD2	1:Ah:154:CYS:HB3	2.54	0.42
1:Ah:146:ILE:HD13	1:Ah:146:ILE:HG21	1.74	0.42
1:Ah:208:TYR:CE2	1:Al:103:TRP:CZ2	3.06	0.42
1:Ai:220:CYS:HA	1:Ai:221:PRO:HD2	1.82	0.42
1:Al:79:PHE:CE2	1:Al:160:TYR:CD2	3.08	0.42
1:Al:128:VAL:O	1:Al:128:VAL:HG13	2.19	0.42
1:Al:187:LEU:HD13	1:Al:187:LEU:C	2.44	0.42
1:Am:106:TRP:CZ2	1:Am:158:VAL:HG13	2.54	0.42
1:An:101:PHE:O	1:An:199:SER:OG	2.33	0.42
1:An:128:VAL:O	1:An:128:VAL:HG13	2.19	0.42
1:BB:49:THR:CG2	1:BB:50:GLY:N	2.83	0.42
1:BB:107:PHE:CE1	1:BB:196:LEU:HB2	2.55	0.42
1:BB:184:TYR:HE2	2:Cq:139:ALA:HB3	1.84	0.42
1:BC:224:ILE:HD11	3:Dr:89:TYR:CE1	2.55	0.42
1:BC:239:PHE:CD2	3:Dr:226:GLN:NE2	2.87	0.42
1:BD:48:LEU:HA	1:BD:198:THR:OG1	2.20	0.42
1:BD:147:ALA:C	1:BD:149:SER:H	2.28	0.42
1:BE:41:GLU:O	1:BE:42:THR:HB	2.19	0.42
1:BH:107:PHE:CE1	1:BH:196:LEU:HB2	2.55	0.42
1:BH:128:VAL:O	1:BH:128:VAL:HG13	2.19	0.42
1:BH:219:TYR:HA	3:ED:39:ARG:HA	2.02	0.42
1:BI:48:LEU:HA	1:BI:198:THR:OG1	2.20	0.42
1:BI:128:VAL:O	1:BI:128:VAL:HG13	2.19	0.42
1:BI:188:PRO:HG3	3:EA:176:VAL:CG1	2.50	0.42
2:C1:117:SER:HB3	3:DO:192:THR:CG2	2.48	0.42
2:C2:26:SER:C	3:Dh:147:ASP:HB3	2.45	0.42
2:C2:103:LEU:HD21	3:D3:163:PRO:HD3	2.01	0.42
2:C3:135:THR:HB	2:C3:139:ALA:CB	2.50	0.42
2:C3:135:THR:O	2:C3:137:GLU:N	2.53	0.42
2:C4:153:GLN:HE22	3:D4:55:SER:CB	2.33	0.42
2:C5:26:SER:C	3:DG:147:ASP:HB3	2.45	0.42
2:C7:57:THR:O	2:C7:59:SER:N	2.52	0.42
2:C7:68:GLU:O	2:C7:69:TRP:C	2.63	0.42
2:C8:83:LEU:HA	2:C8:84:PRO:HA	1.60	0.42
2:C9:69:TRP:HZ2	2:C9:198:ILE:HG23	1.85	0.42
2:C9:103:LEU:HD21	3:Da:163:PRO:HD3	2.01	0.42
2:CC:77:HIS:HE1	2:CC:144:GLU:HG2	1.84	0.42
2:CD:135:THR:HB	2:CD:139:ALA:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:166:ARG:HD3	3:DE:110:PHE:O	2.20	0.42
2:CF:57:THR:O	2:CF:59:SER:N	2.52	0.42
2:CF:166:ARG:HD3	3:DF:110:PHE:O	2.20	0.42
2:CH:153:GLN:HE22	3:DH:55:SER:CB	2.33	0.42
2:CI:69:TRP:HZ2	2:CI:198:ILE:HG23	1.84	0.42
2:CK:134:HIS:HB3	2:CK:135:THR:H	1.46	0.42
2:CL:69:TRP:HZ2	2:CL:198:ILE:HG23	1.84	0.42
2:CN:33:THR:HG21	2:CN:160:HIS:O	2.20	0.42
2:CO:103:LEU:HD21	3:DK:163:PRO:HD3	2.01	0.42
2:CO:166:ARG:HD3	3:DO:110:PHE:O	2.20	0.42
2:CQ:65:LYS:CB	3:Dp:135:ARG:HH21	2.29	0.42
2:CR:36:TYR:CE2	2:CR:130:PRO:CG	2.98	0.42
2:CR:135:THR:O	2:CR:137:GLU:N	2.53	0.42
2:CT:129:VAL:HA	2:CT:130:PRO:HD3	1.77	0.42
2:CT:135:THR:O	2:CT:137:GLU:N	2.53	0.42
2:CT:166:ARG:HD3	3:DT:110:PHE:O	2.20	0.42
2:CV:33:THR:HG21	2:CV:160:HIS:O	2.20	0.42
2:CV:69:TRP:HZ2	2:CV:198:ILE:HG23	1.85	0.42
2:CW:26:SER:C	3:DJ:147:ASP:HB3	2.45	0.42
2:CX:135:THR:HB	2:CX:139:ALA:CB	2.50	0.42
2:CX:153:GLN:HE22	3:DX:55:SER:CB	2.33	0.42
2:CZ:153:GLN:HE22	3:DZ:55:SER:CB	2.33	0.42
2:CZ:166:ARG:HD3	3:DZ:110:PHE:O	2.20	0.42
2:Ca:23:ILE:N	2:Ca:23:ILE:CD1	2.81	0.42
2:Cc:36:TYR:CE2	2:Cc:130:PRO:CG	2.98	0.42
2:Cc:135:THR:HB	2:Cc:139:ALA:CB	2.50	0.42
2:Cf:27:GLN:CD	2:Cf:27:GLN:C	2.87	0.42
2:Cf:57:THR:O	2:Cf:59:SER:N	2.52	0.42
2:Cg:46:THR:CG2	3:Dh:165:ASP:HA	2.38	0.42
2:Ch:77:HIS:HE1	2:Ch:144:GLU:HG2	1.84	0.42
2:CI:69:TRP:HZ2	2:CI:198:ILE:HG23	1.84	0.42
2:CI:135:THR:HB	2:CI:139:ALA:CB	2.50	0.42
2:Cj:26:SER:C	3:DM:147:ASP:HB3	2.45	0.42
2:Cl:23:ILE:N	2:Cl:23:ILE:CD1	2.81	0.42
2:Cl:57:THR:O	2:Cl:58:LEU:CB	2.66	0.42
2:Cm:33:THR:HG21	2:Cm:160:HIS:O	2.20	0.42
2:Co:22:THR:O	2:Co:22:THR:HG23	2.18	0.42
2:Cp:25:ASN:O	2:Cp:26:SER:HB3	2.18	0.42
2:Cq:26:SER:C	3:DY:147:ASP:HB3	2.45	0.42
2:Cq:135:THR:O	2:Cq:137:GLU:N	2.53	0.42
2:Ct:33:THR:HG21	2:Ct:160:HIS:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ct:77:HIS:HE1	2:Ct:144:GLU:HG2	1.84	0.42
2:Cu:135:THR:HB	2:Cu:139:ALA:CB	2.50	0.42
2:Cv:135:THR:HB	2:Cv:139:ALA:CB	2.50	0.42
2:Cw:13:ARG:HA	2:Cw:13:ARG:HD3	1.72	0.42
3:D0:175:THR:HG1	3:D0:178:ASN:CG	2.28	0.42
3:D4:79:SER:O	3:D4:81:SER:N	2.51	0.42
3:D8:86:HIS:ND1	3:D8:86:HIS:C	2.77	0.42
3:D9:101:ARG:HH12	3:D9:165:ASP:HB3	1.84	0.42
3:DA:115:ALA:CB	3:DA:194:THR:OG1	2.67	0.42
3:DB:13:SER:O	3:DC:9:PRO:HD3	2.20	0.42
3:DB:84:GLU:C	3:DB:86:HIS:H	2.28	0.42
3:DB:86:HIS:ND1	3:DB:86:HIS:C	2.77	0.42
3:DB:175:THR:HG1	3:DB:178:ASN:CG	2.28	0.42
3:DF:84:GLU:C	3:DF:86:HIS:H	2.28	0.42
3:DF:101:ARG:HH12	3:DF:165:ASP:HB3	1.84	0.42
3:DG:75:GLN:NE2	3:DG:184:GLN:OE1	2.49	0.42
3:DH:175:THR:HG1	3:DH:178:ASN:CG	2.28	0.42
3:DI:13:SER:O	3:DJ:9:PRO:HD3	2.20	0.42
3:DK:119:LYS:O	3:DK:120:PHE:CB	2.67	0.42
3:DL:43:PHE:O	3:DL:44:ILE:C	2.60	0.42
3:DM:119:LYS:HG2	3:DM:147:ASP:CG	2.45	0.42
3:DU:13:SER:O	3:DV:9:PRO:HD3	2.20	0.42
3:DW:119:LYS:O	3:DW:120:PHE:CB	2.67	0.42
3:DZ:217:ARG:HD3	3:DZ:218:HIS:CD2	2.54	0.42
3:Dc:86:HIS:ND1	3:Dc:86:HIS:C	2.77	0.42
3:Dc:98:ALA:HB2	3:Dc:220:VAL:HG21	2.01	0.42
3:Df:217:ARG:HD3	3:Df:218:HIS:CD2	2.54	0.42
3:Dg:36:VAL:HA	3:Dg:37:PRO:HD3	1.53	0.42
3:Dn:79:SER:O	3:Dn:81:SER:N	2.51	0.42
3:Do:119:LYS:O	3:Do:120:PHE:CB	2.67	0.42
3:EA:79:SER:O	3:EA:81:SER:N	2.51	0.42
3:ED:53:PHE:CD1	3:ED:53:PHE:N	2.88	0.42
3:EE:119:LYS:HG2	3:EE:147:ASP:CG	2.45	0.42
3:EE:121:LEU:C	3:EE:121:LEU:CD2	2.89	0.42
4:F0:29:GLN:HB2	4:F0:30:TYR:HD1	1.84	0.42
4:FA:31:GLN:HE21	4:FA:31:GLN:HA	1.85	0.42
4:FE:29:GLN:HB2	4:FE:30:TYR:HD1	1.84	0.42
4:FL:31:GLN:HE21	4:FL:31:GLN:HA	1.85	0.42
4:FN:21:ILE:O	4:FN:21:ILE:HG22	2.20	0.42
4:FQ:29:GLN:HB2	4:FQ:30:TYR:HD1	1.84	0.42
4:FQ:31:GLN:HE21	4:FQ:31:GLN:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FS:31:GLN:HA	4:FS:31:GLN:HE21	1.85	0.42
4:FV:31:GLN:HE21	4:FV:31:GLN:HA	1.85	0.42
4:FY:21:ILE:O	4:FY:21:ILE:HG22	2.20	0.42
4:FY:31:GLN:HE21	4:FY:31:GLN:HA	1.85	0.42
4:FZ:31:GLN:HE21	4:FZ:31:GLN:HA	1.85	0.42
4:Ff:21:ILE:O	4:Ff:21:ILE:HG22	2.20	0.42
4:Fl:31:GLN:HE21	4:Fl:31:GLN:HA	1.85	0.42
1:A0:41:GLU:O	1:A0:42:THR:HB	2.19	0.42
1:A0:112:PRO:CG	3:D2:223:PRO:HD3	2.50	0.42
1:A1:79:PHE:CE2	1:A1:160:TYR:CD2	3.08	0.42
1:A1:224:ILE:HD11	3:D2:89:TYR:CE1	2.55	0.42
1:A2:239:PHE:CD2	3:D3:226:GLN:NE2	2.87	0.42
1:A5:87:GLN:HA	1:A5:153:ALA:HB2	2.02	0.42
1:A6:112:PRO:CG	3:D8:223:PRO:HD3	2.50	0.42
1:A8:147:ALA:C	1:A8:149:SER:H	2.28	0.42
1:A9:40:VAL:HB	1:A9:68:TRP:CH2	2.53	0.42
1:A9:188:PRO:HG3	3:Db:176:VAL:CG1	2.50	0.42
1:AB:132:GLN:OE1	1:AC:66:LEU:HD21	2.20	0.42
1:AC:147:ALA:C	1:AC:149:SER:H	2.28	0.42
1:AC:219:TYR:CE2	3:DC:39:ARG:HD2	2.55	0.42
1:AD:224:ILE:HD11	3:DD:89:TYR:CE1	2.55	0.42
1:AF:65:GLN:HG2	1:AF:70:ARG:HD2	2.01	0.42
1:AG:48:LEU:O	1:AG:131:GLN:HG2	2.20	0.42
1:AG:101:PHE:CD2	1:AG:143:VAL:CG1	2.91	0.42
1:AG:132:GLN:OE1	1:AH:66:LEU:HD21	2.20	0.42
1:AH:49:THR:CG2	1:AH:50:GLY:N	2.83	0.42
1:AI:48:LEU:O	1:AI:131:GLN:HG2	2.20	0.42
1:AJ:43:LEU:HD23	1:AJ:43:LEU:H	1.81	0.42
1:AJ:48:LEU:O	1:AJ:131:GLN:HG2	2.20	0.42
1:AJ:188:PRO:HG3	3:DF:176:VAL:CG1	2.50	0.42
1:AK:6:GLU:O	2:CK:162:LEU:N	2.53	0.42
1:AK:66:LEU:HD21	1:AO:132:GLN:OE1	2.20	0.42
1:AM:79:PHE:CE2	1:AM:160:TYR:CD2	3.08	0.42
1:AM:87:GLN:HA	1:AM:153:ALA:HB2	2.02	0.42
1:AN:48:LEU:O	1:AN:131:GLN:HG2	2.20	0.42
1:AN:170:PHE:CD2	1:AN:222:ARG:CZ	2.87	0.42
1:AO:43:LEU:HD23	1:AO:43:LEU:H	1.81	0.42
1:AO:219:TYR:HA	3:DO:39:ARG:HA	2.02	0.42
1:AO:224:ILE:HD11	3:DO:89:TYR:CE1	2.55	0.42
1:AP:175:GLY:N	1:AP:183:THR:O	2.52	0.42
1:AP:219:TYR:CE2	3:DP:39:ARG:HD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:175:GLY:N	1:AQ:183:THR:O	2.53	0.42
1:AR:48:LEU:O	1:AR:131:GLN:HG2	2.20	0.42
1:AR:74:THR:O	1:AR:74:THR:HG22	2.19	0.42
1:AR:147:ALA:C	1:AR:149:SER:H	2.28	0.42
1:AR:219:TYR:CE2	3:DR:39:ARG:HD2	2.55	0.42
1:AT:65:GLN:HG2	1:AT:70:ARG:HD2	2.01	0.42
1:AT:74:THR:O	1:AT:74:THR:HG22	2.19	0.42
1:AT:144:PHE:CD2	1:AT:154:CYS:HB3	2.54	0.42
1:AT:184:TYR:CE2	2:CU:139:ALA:CB	3.03	0.42
1:AU:219:TYR:CE2	3:DV:39:ARG:HD2	2.55	0.42
1:AU:224:ILE:HD11	3:DV:89:TYR:CE1	2.55	0.42
1:AX:175:GLY:N	1:AX:183:THR:O	2.53	0.42
1:AX:184:TYR:HE2	2:CY:139:ALA:HB3	1.84	0.42
1:AZ:188:PRO:HG3	3:D1:176:VAL:CG1	2.50	0.42
1:AZ:219:TYR:HA	3:D0:39:ARG:HA	2.02	0.42
1:Aa:66:LEU:HD21	1:An:132:GLN:OE1	2.20	0.42
1:Aa:72:LEU:O	1:Aa:75:CYS:SG	2.76	0.42
1:Aa:132:GLN:OE1	1:Ab:66:LEU:HD21	2.20	0.42
1:Aa:224:ILE:HD11	3:Dc:89:TYR:CE1	2.55	0.42
1:Ab:74:THR:HG22	1:Ab:74:THR:O	2.19	0.42
1:Ab:184:TYR:HE2	2:Cd:139:ALA:HB3	1.84	0.42
1:Ac:41:GLU:O	1:Ac:42:THR:HB	2.19	0.42
1:Ac:62:SER:HB2	1:Ac:73:ASN:ND2	2.27	0.42
1:Ac:206:GLY:CA	1:Ag:121:LEU:HD21	2.47	0.42
1:Ae:188:PRO:HG3	3:Dh:176:VAL:CG1	2.50	0.42
1:Af:65:GLN:HG2	1:Af:70:ARG:HD2	2.01	0.42
1:Af:147:ALA:C	1:Af:149:SER:H	2.28	0.42
1:Ag:62:SER:O	1:Ag:63:THR:CB	2.66	0.42
1:Ag:184:TYR:CE2	2:Ci:139:ALA:CB	3.03	0.42
1:Aj:87:GLN:HA	1:Aj:153:ALA:HB2	2.02	0.42
1:Aj:121:LEU:HD21	1:Ak:206:GLY:CA	2.47	0.42
1:Ak:48:LEU:HA	1:Ak:198:THR:OG1	2.20	0.42
1:Ak:188:PRO:HG3	3:Dn:176:VAL:CG1	2.50	0.42
1:Ak:219:TYR:HA	3:Dm:39:ARG:HA	2.02	0.42
1:Al:147:ALA:C	1:Al:149:SER:H	2.28	0.42
1:Al:219:TYR:HA	3:Dn:39:ARG:HA	2.02	0.42
1:Am:112:PRO:CG	3:Dp:223:PRO:HD3	2.50	0.42
1:Am:174:TRP:HB2	2:Co:188:LEU:CD2	2.44	0.42
1:An:172:ASN:HB2	2:Cb:132:TYR:O	2.19	0.42
1:Ao:79:PHE:CE2	1:Ao:160:TYR:CD2	3.08	0.42
1:Ao:93:THR:O	1:Ao:95:SER:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:48:LEU:O	1:BA:131:GLN:HG2	2.20	0.42
1:BA:224:ILE:HD11	3:Dp:89:TYR:CE1	2.55	0.42
1:BB:6:GLU:O	2:Cq:162:LEU:N	2.53	0.42
1:BC:79:PHE:CE2	1:BC:160:TYR:CD2	3.08	0.42
1:BC:219:TYR:HA	3:Dr:39:ARG:HA	2.02	0.42
1:BE:6:GLU:O	2:Ct:162:LEU:N	2.53	0.42
1:BE:48:LEU:HA	1:BE:198:THR:OG1	2.20	0.42
1:BE:66:LEU:HD21	1:BI:132:GLN:OE1	2.20	0.42
1:BE:132:GLN:OE1	1:BF:66:LEU:HD21	2.20	0.42
1:BE:219:TYR:CE2	3:EA:39:ARG:HD2	2.55	0.42
1:BF:65:GLN:HG2	1:BF:70:ARG:HD2	2.01	0.42
1:BF:110:GLY:H	1:BG:242:ASN:ND2	2.12	0.42
1:BG:110:GLY:H	1:BH:242:ASN:ND2	2.12	0.42
1:BG:172:ASN:HB2	2:Cv:132:TYR:O	2.19	0.42
1:BG:184:TYR:CE2	2:Cv:139:ALA:CB	3.03	0.42
1:BH:101:PHE:O	1:BH:199:SER:OG	2.33	0.42
1:BH:224:ILE:HD11	3:ED:89:TYR:CE1	2.55	0.42
1:BI:43:LEU:N	1:BI:43:LEU:CD2	2.74	0.42
1:BI:146:ILE:HG21	1:BI:146:ILE:HD13	1.74	0.42
2:C2:115:ASN:C	3:Dh:119:LYS:NZ	2.77	0.42
2:C2:153:GLN:HE22	3:D2:55:SER:CB	2.33	0.42
2:C3:103:LEU:HD21	3:DZ:163:PRO:HD3	2.01	0.42
2:C5:33:THR:HG21	2:C5:160:HIS:O	2.20	0.42
2:C5:129:VAL:HA	2:C5:130:PRO:HD3	1.78	0.42
2:C5:135:THR:HB	2:C5:139:ALA:CB	2.50	0.42
2:C6:135:THR:HB	2:C6:139:ALA:CB	2.50	0.42
2:C6:135:THR:O	2:C6:137:GLU:N	2.53	0.42
2:C6:153:GLN:HE22	3:D6:55:SER:CB	2.33	0.42
2:CA:135:THR:HB	2:CA:139:ALA:CB	2.50	0.42
2:CB:33:THR:HG21	2:CB:160:HIS:O	2.20	0.42
2:CB:57:THR:O	2:CB:58:LEU:CB	2.66	0.42
2:CB:103:LEU:O	2:CB:223:ASN:ND2	2.49	0.42
2:CC:33:THR:HG21	2:CC:160:HIS:O	2.20	0.42
2:CC:135:THR:HB	2:CC:139:ALA:CB	2.50	0.42
2:CC:135:THR:O	2:CC:137:GLU:N	2.53	0.42
2:CJ:69:TRP:HZ2	2:CJ:198:ILE:HG23	1.84	0.42
2:CK:57:THR:O	2:CK:59:SER:N	2.52	0.42
2:CK:103:LEU:HD12	2:CK:223:ASN:HB2	2.02	0.42
2:CL:135:THR:O	2:CL:137:GLU:N	2.53	0.42
2:CM:103:LEU:O	2:CM:223:ASN:ND2	2.49	0.42
2:CN:69:TRP:HZ2	2:CN:198:ILE:HG23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CO:26:SER:C	3:DP:147:ASP:HB3	2.45	0.42
2:CO:33:THR:HG21	2:CO:160:HIS:O	2.20	0.42
2:CP:33:THR:HG21	2:CP:160:HIS:O	2.20	0.42
2:CQ:33:THR:HG21	2:CQ:160:HIS:O	2.20	0.42
2:CR:103:LEU:HD12	2:CR:223:ASN:HB2	2.02	0.42
2:CT:27:GLN:C	2:CT:27:GLN:CD	2.87	0.42
2:CU:26:SER:C	3:Dg:147:ASP:HB3	2.45	0.42
2:CU:115:ASN:C	3:Dg:119:LYS:NZ	2.77	0.42
2:CV:68:GLU:O	2:CV:69:TRP:C	2.63	0.42
2:CV:153:GLN:NE2	3:DV:53:PHE:O	2.50	0.42
2:CX:49:ASP:HA	2:CX:50:PRO:HD2	1.80	0.42
2:CZ:117:SER:HB3	3:Dq:192:THR:CG2	2.47	0.42
2:Ca:20:GLY:CA	2:Ca:56:PRO:O	2.67	0.42
2:Ca:153:GLN:HE22	3:Da:55:SER:CB	2.33	0.42
2:Cb:103:LEU:HD21	3:Dc:163:PRO:HD3	2.01	0.42
2:Cb:135:THR:HB	2:Cb:139:ALA:CB	2.50	0.42
2:Cd:135:THR:O	2:Cd:137:GLU:N	2.53	0.42
2:Cf:77:HIS:HE1	2:Cf:144:GLU:HG2	1.84	0.42
2:Cf:135:THR:O	2:Cf:137:GLU:N	2.53	0.42
2:Ch:103:LEU:HD21	3:Di:163:PRO:HD3	2.01	0.42
2:Ch:152:TYR:HB3	2:Ch:197:LEU:HD22	2.00	0.42
2:Ck:103:LEU:HD21	3:Dl:163:PRO:HD3	2.01	0.42
2:Cn:22:THR:HG23	2:Cn:22:THR:O	2.19	0.42
2:Co:33:THR:HG21	2:Co:160:HIS:O	2.20	0.42
2:Co:153:GLN:HE22	3:Do:55:SER:CB	2.33	0.42
2:Co:180:PRO:HD2	2:Co:189:HIS:HE1	1.77	0.42
2:Cr:27:GLN:C	2:Cr:27:GLN:CD	2.87	0.42
2:Cs:57:THR:O	2:Cs:58:LEU:CB	2.66	0.42
2:Cs:69:TRP:HZ2	2:Cs:198:ILE:HG23	1.84	0.42
2:Ct:69:TRP:HZ2	2:Ct:198:ILE:HG23	1.84	0.42
2:Ct:166:ARG:HD3	3:EA:110:PHE:O	2.20	0.42
2:Cu:28:GLY:O	2:Cu:168:ASN:HB2	2.20	0.42
2:Cv:135:THR:O	2:Cv:137:GLU:N	2.53	0.42
2:Cw:58:LEU:HB3	2:Cw:59:SER:H	1.65	0.42
2:Cw:135:THR:HB	2:Cw:139:ALA:CB	2.50	0.42
2:Cw:153:GLN:HE22	3:ED:55:SER:CB	2.33	0.42
2:Cx:77:HIS:HE1	2:Cx:144:GLU:HG2	1.84	0.42
3:D0:84:GLU:C	3:D0:86:HIS:H	2.28	0.42
3:D1:53:PHE:N	3:D1:53:PHE:CD1	2.88	0.42
3:D4:53:PHE:N	3:D4:53:PHE:CD1	2.88	0.42
3:D4:101:ARG:HH12	3:D4:165:ASP:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D4:120:PHE:HD2	3:D4:146:TRP:CZ2	2.38	0.42
3:D5:175:THR:HG1	3:D5:178:ASN:CG	2.28	0.42
3:D6:84:GLU:C	3:D6:86:HIS:H	2.28	0.42
3:D7:115:ALA:CB	3:D7:194:THR:OG1	2.67	0.42
3:D8:175:THR:HG1	3:D8:178:ASN:CG	2.28	0.42
3:DE:98:ALA:HB2	3:DE:220:VAL:HG21	2.01	0.42
3:DF:120:PHE:HD2	3:DF:146:TRP:CZ2	2.38	0.42
3:DG:120:PHE:HD2	3:DG:146:TRP:CZ2	2.38	0.42
3:DL:75:GLN:NE2	3:DL:184:GLN:OE1	2.49	0.42
3:DM:53:PHE:N	3:DM:53:PHE:CD1	2.88	0.42
3:DN:120:PHE:HD2	3:DN:146:TRP:CZ2	2.38	0.42
3:DQ:79:SER:O	3:DQ:81:SER:N	2.51	0.42
3:DR:84:GLU:C	3:DR:86:HIS:H	2.28	0.42
3:DS:79:SER:O	3:DS:81:SER:N	2.51	0.42
3:DT:120:PHE:HD2	3:DT:146:TRP:CZ2	2.38	0.42
3:DU:53:PHE:N	3:DU:53:PHE:CD1	2.88	0.42
3:DV:84:GLU:C	3:DV:86:HIS:H	2.28	0.42
3:DW:53:PHE:CD1	3:DW:53:PHE:N	2.88	0.42
3:DX:43:PHE:O	3:DX:44:ILE:C	2.60	0.42
3:DX:84:GLU:C	3:DX:86:HIS:H	2.28	0.42
3:DZ:84:GLU:C	3:DZ:86:HIS:H	2.28	0.42
3:Dd:175:THR:HG1	3:Dd:178:ASN:CG	2.28	0.42
3:De:98:ALA:HB2	3:De:220:VAL:HG21	2.01	0.42
3:Dh:13:SER:O	3:Di:9:PRO:HD3	2.20	0.42
3:Di:115:ALA:CB	3:Di:194:THR:OG1	2.67	0.42
3:Di:179:VAL:HG12	3:Di:181:GLY:N	2.32	0.42
3:Dk:53:PHE:N	3:Dk:53:PHE:CD1	2.88	0.42
3:Dm:98:ALA:HB2	3:Dm:220:VAL:HG21	2.01	0.42
3:Dr:86:HIS:ND1	3:Dr:86:HIS:C	2.77	0.42
3:Ds:64:VAL:HG13	3:Ds:120:PHE:HE1	1.85	0.42
3:EC:13:SER:O	3:ED:9:PRO:HD3	2.20	0.42
3:EC:53:PHE:N	3:EC:53:PHE:CD1	2.88	0.42
3:EE:75:GLN:NE2	3:EE:184:GLN:OE1	2.49	0.42
4:F4:29:GLN:HB2	4:F4:30:TYR:HD1	1.84	0.42
4:F7:29:GLN:HB2	4:F7:30:TYR:HD1	1.84	0.42
4:F8:32:ASN:HB3	4:F8:33:SER:H	1.58	0.42
4:F9:29:GLN:HB2	4:F9:30:TYR:HD1	1.84	0.42
4:FA:32:ASN:HB3	4:FA:33:SER:H	1.58	0.42
4:FB:21:ILE:O	4:FB:21:ILE:HG22	2.20	0.42
4:FJ:21:ILE:HG22	4:FJ:21:ILE:O	2.20	0.42
4:FK:29:GLN:HB2	4:FK:30:TYR:HD1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FK:31:GLN:HE21	4:FK:31:GLN:HA	1.85	0.42
4:FO:21:ILE:O	4:FO:21:ILE:HG22	2.20	0.42
4:FP:31:GLN:HE21	4:FP:31:GLN:HA	1.85	0.42
4:FV:21:ILE:HG22	4:FV:21:ILE:O	2.20	0.42
4:Fe:29:GLN:HB2	4:Fe:30:TYR:HD1	1.84	0.42
4:Fi:31:GLN:HA	4:Fi:31:GLN:HE21	1.85	0.42
4:Fj:21:ILE:HG22	4:Fj:21:ILE:O	2.20	0.42
4:Fk:21:ILE:HG22	4:Fk:21:ILE:O	2.20	0.42
1:A0:48:LEU:HA	1:A0:198:THR:OG1	2.20	0.41
1:A1:138:MET:HE1	1:A2:71:LEU:HD11	2.02	0.41
1:A2:107:PHE:CE1	1:A2:196:LEU:HB2	2.55	0.41
1:A5:6:GLU:O	2:C6:162:LEU:N	2.53	0.41
1:A5:93:THR:O	1:A5:95:SER:N	2.53	0.41
1:A5:109:VAL:HG22	1:A5:191:HIS:HD2	1.82	0.41
1:A5:132:GLN:OE1	1:A6:66:LEU:HD21	2.20	0.41
1:A5:138:MET:HE1	1:A6:71:LEU:HD11	2.02	0.41
1:A6:175:GLY:N	1:A6:183:THR:O	2.52	0.41
1:A7:48:LEU:HA	1:A7:198:THR:OG1	2.20	0.41
1:A7:74:THR:HG22	1:A7:74:THR:O	2.19	0.41
1:A7:112:PRO:CG	3:D4:223:PRO:HD3	2.50	0.41
1:A9:79:PHE:CE2	1:A9:160:TYR:CD2	3.08	0.41
1:AB:43:LEU:HD23	1:AB:43:LEU:H	1.81	0.41
1:AC:48:LEU:HA	1:AC:198:THR:OG1	2.20	0.41
1:AD:87:GLN:HA	1:AD:153:ALA:HB2	2.02	0.41
1:AE:48:LEU:HA	1:AE:198:THR:OG1	2.20	0.41
1:AE:49:THR:CG2	1:AE:50:GLY:N	2.83	0.41
1:AE:128:VAL:HG13	1:AE:128:VAL:O	2.19	0.41
1:AF:93:THR:O	1:AF:95:SER:N	2.53	0.41
1:AF:184:TYR:HE2	2:CF:139:ALA:HB3	1.84	0.41
1:AG:6:GLU:O	2:CG:162:LEU:N	2.53	0.41
1:AH:79:PHE:CE2	1:AH:160:TYR:CD2	3.08	0.41
1:AI:106:TRP:CZ2	1:AI:158:VAL:HG13	2.54	0.41
1:AJ:219:TYR:HA	3:DJ:39:ARG:HA	2.02	0.41
1:AK:41:GLU:O	1:AK:42:THR:HB	2.19	0.41
1:AL:87:GLN:HA	1:AL:153:ALA:HB2	2.02	0.41
1:AM:6:GLU:O	2:CM:162:LEU:N	2.53	0.41
1:AM:138:MET:HE1	1:AN:71:LEU:HD11	2.02	0.41
1:AM:188:PRO:HG3	3:DN:176:VAL:CG1	2.50	0.41
1:AO:79:PHE:CE2	1:AO:160:TYR:CD2	3.08	0.41
1:AQ:79:PHE:CE2	1:AQ:160:TYR:CD2	3.08	0.41
1:AQ:138:MET:HE1	1:AR:71:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:112:PRO:CG	3:DV:223:PRO:HD3	2.50	0.41
1:AT:188:PRO:HG3	3:DV:176:VAL:CG1	2.50	0.41
1:AU:6:GLU:O	2:CV:162:LEU:N	2.53	0.41
1:AV:170:PHE:HD2	1:AV:222:ARG:NH1	2.17	0.41
1:AW:79:PHE:CE2	1:AW:160:TYR:CD2	3.08	0.41
1:AW:188:PRO:HG3	3:DY:176:VAL:CG1	2.50	0.41
1:AX:239:PHE:CD2	3:DY:226:GLN:NE2	2.87	0.41
1:AY:101:PHE:CD2	1:AY:143:VAL:CG1	2.91	0.41
1:AY:219:TYR:CE2	3:DZ:39:ARG:HD2	2.55	0.41
1:AZ:74:THR:HG22	1:AZ:74:THR:O	2.19	0.41
1:AZ:219:TYR:CE2	3:D0:39:ARG:HD2	2.55	0.41
1:Aa:48:LEU:O	1:Aa:131:GLN:HG2	2.20	0.41
1:Aa:138:MET:HE1	1:Ab:71:LEU:HD11	2.02	0.41
1:Ab:48:LEU:O	1:Ab:131:GLN:HG2	2.20	0.41
1:Ab:128:VAL:O	1:Ab:128:VAL:HG13	2.19	0.41
1:Ab:188:PRO:HG3	3:D9:176:VAL:CG1	2.50	0.41
1:Ae:6:GLU:O	2:Cg:162:LEU:N	2.53	0.41
1:Ae:48:LEU:O	1:Ae:131:GLN:HG2	2.20	0.41
1:Ae:48:LEU:HA	1:Ae:198:THR:OG1	2.20	0.41
1:Af:48:LEU:HA	1:Af:198:THR:OG1	2.20	0.41
1:Af:87:GLN:HA	1:Af:153:ALA:HB2	2.02	0.41
1:Ag:79:PHE:CE2	1:Ag:160:TYR:CD2	3.08	0.41
1:Ag:128:VAL:O	1:Ag:128:VAL:HG13	2.19	0.41
1:Ah:170:PHE:HD2	1:Ah:222:ARG:NH1	2.17	0.41
1:Ah:224:ILE:HD11	3:Dj:89:TYR:CE1	2.55	0.41
1:Ai:188:PRO:HG3	3:DI:176:VAL:CG1	2.50	0.41
1:Ai:224:ILE:HD11	3:Dk:89:TYR:CE1	2.55	0.41
1:Aj:128:VAL:O	1:Aj:128:VAL:HG13	2.19	0.41
1:Aj:144:PHE:CD2	1:Aj:154:CYS:HB3	2.54	0.41
1:Aj:224:ILE:HD11	3:DL:89:TYR:CE1	2.55	0.41
1:Ak:175:GLY:N	1:Ak:183:THR:O	2.52	0.41
1:Ak:224:ILE:HD11	3:Dm:89:TYR:CE1	2.55	0.41
1:Al:184:TYR:HE2	2:Cn:139:ALA:HB3	1.84	0.41
1:Am:41:GLU:O	1:Am:42:THR:HB	2.19	0.41
1:Am:79:PHE:CE2	1:Am:160:TYR:CD2	3.08	0.41
1:Am:188:PRO:HG3	3:Dp:176:VAL:CG1	2.50	0.41
1:Am:219:TYR:HA	3:Do:39:ARG:HA	2.02	0.41
1:BA:184:TYR:CE2	2:Cp:139:ALA:CB	3.03	0.41
1:BB:79:PHE:CE2	1:BB:160:TYR:CD2	3.08	0.41
1:BB:147:ALA:C	1:BB:149:SER:H	2.28	0.41
1:BB:224:ILE:HD11	3:Dq:89:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:188:PRO:HG3	3:Ds:176:VAL:CG1	2.50	0.41
1:BD:6:GLU:O	2:Cs:162:LEU:N	2.53	0.41
1:BD:49:THR:CG2	1:BD:50:GLY:N	2.83	0.41
1:BD:65:GLN:HG2	1:BD:70:ARG:HD2	2.01	0.41
1:BD:115:THR:HG23	1:BD:133:LEU:N	2.25	0.41
1:BE:128:VAL:O	1:BE:128:VAL:HG13	2.19	0.41
1:BE:174:TRP:HB2	2:Ct:188:LEU:CD2	2.44	0.41
1:BF:49:THR:CG2	1:BF:50:GLY:N	2.83	0.41
1:BF:87:GLN:HA	1:BF:153:ALA:HB2	2.02	0.41
1:BF:132:GLN:OE1	1:BG:66:LEU:HD21	2.20	0.41
1:BF:219:TYR:CE2	3:EB:39:ARG:HD2	2.55	0.41
1:BG:62:SER:HB2	1:BG:73:ASN:ND2	2.27	0.41
1:BG:188:PRO:HG3	3:ED:176:VAL:CG1	2.50	0.41
1:BI:74:THR:O	1:BI:74:THR:HG22	2.19	0.41
2:C0:26:SER:C	3:DQ:147:ASP:HB3	2.45	0.41
2:C2:69:TRP:HZ2	2:C2:198:ILE:HG23	1.85	0.41
2:C2:77:HIS:HE1	2:C2:144:GLU:HG2	1.84	0.41
2:C2:166:ARG:HD3	3:D2:110:PHE:O	2.20	0.41
2:C3:26:SER:C	3:DU:147:ASP:HB3	2.45	0.41
2:C3:166:ARG:HD3	3:D3:110:PHE:O	2.20	0.41
2:C4:42:ARG:HA	2:C4:43:PRO:HD2	1.64	0.41
2:C4:166:ARG:HD3	3:D4:110:PHE:O	2.20	0.41
2:C8:49:ASP:HA	2:C8:50:PRO:HD2	1.81	0.41
2:C8:77:HIS:HE1	2:C8:144:GLU:HG2	1.84	0.41
2:C9:56:PRO:C	2:C9:57:THR:O	2.59	0.41
2:CA:115:ASN:HD22	3:DW:190:ALA:C	2.17	0.41
2:CB:166:ARG:HD3	3:DB:110:PHE:O	2.20	0.41
2:CD:153:GLN:HE22	3:DD:55:SER:CB	2.33	0.41
2:CE:135:THR:O	2:CE:137:GLU:N	2.53	0.41
2:CF:103:LEU:HD21	3:DG:163:PRO:HD3	2.01	0.41
2:CF:216:ALA:HA	2:CF:217:PRO:HD3	1.78	0.41
2:CG:46:THR:CG2	3:DH:165:ASP:HA	2.38	0.41
2:CG:69:TRP:HZ2	2:CG:198:ILE:HG23	1.85	0.41
2:CH:166:ARG:HD3	3:DH:110:PHE:O	2.20	0.41
2:CI:26:SER:C	3:DX:147:ASP:HB3	2.45	0.41
2:CK:20:GLY:CA	2:CK:56:PRO:O	2.67	0.41
2:CK:77:HIS:HE1	2:CK:144:GLU:HG2	1.84	0.41
2:CN:56:PRO:C	2:CN:57:THR:O	2.59	0.41
2:CN:77:HIS:HE1	2:CN:144:GLU:HG2	1.84	0.41
2:CN:216:ALA:HA	2:CN:217:PRO:HD3	1.78	0.41
2:CO:153:GLN:HE22	3:DO:55:SER:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CQ:20:GLY:CA	2:CQ:56:PRO:O	2.67	0.41
2:CS:135:THR:HB	2:CS:139:ALA:CB	2.50	0.41
2:CT:33:THR:HG21	2:CT:160:HIS:O	2.20	0.41
2:CT:115:ASN:C	3:DK:119:LYS:NZ	2.77	0.41
2:CU:33:THR:HG21	2:CU:160:HIS:O	2.20	0.41
2:CV:46:THR:CG2	3:DW:165:ASP:HA	2.38	0.41
2:CW:103:LEU:HD12	2:CW:223:ASN:HB2	2.02	0.41
2:CX:129:VAL:HA	2:CX:130:PRO:HD3	1.78	0.41
2:CZ:135:THR:HB	2:CZ:139:ALA:CB	2.50	0.41
2:Ca:115:ASN:C	3:DL:119:LYS:NZ	2.77	0.41
2:Cb:207:GLN:HB3	3:DT:196:ILE:HG21	2.01	0.41
2:Cc:103:LEU:HD12	2:Cc:223:ASN:HB2	2.02	0.41
2:Cc:166:ARG:HD3	3:Dc:110:PHE:O	2.20	0.41
2:Ce:57:THR:O	2:Ce:58:LEU:CB	2.66	0.41
2:Cf:28:GLY:O	2:Cf:168:ASN:HB2	2.21	0.41
2:Cg:33:THR:HG21	2:Cg:160:HIS:O	2.20	0.41
2:Cg:135:THR:O	2:Cg:137:GLU:N	2.53	0.41
2:Ch:65:LYS:CB	3:DN:135:ARG:HH21	2.29	0.41
2:Cj:68:GLU:O	2:Cj:69:TRP:C	2.63	0.41
2:Ck:68:GLU:O	2:Ck:69:TRP:C	2.63	0.41
2:Ck:135:THR:O	2:Ck:137:GLU:N	2.53	0.41
2:Cl:180:PRO:HD2	2:Cl:189:HIS:HE1	1.76	0.41
2:Cm:103:LEU:HD21	3:Dn:163:PRO:HD3	2.01	0.41
2:Cm:117:SER:HB3	3:DD:192:THR:CG2	2.47	0.41
2:Cn:103:LEU:HD12	2:Cn:223:ASN:HB2	2.02	0.41
2:Cn:135:THR:HB	2:Cn:139:ALA:CB	2.50	0.41
2:Co:103:LEU:HD12	2:Co:223:ASN:HB2	2.02	0.41
2:Cp:117:SER:HB3	3:D0:192:THR:CG2	2.47	0.41
2:Cq:57:THR:O	2:Cq:58:LEU:CB	2.66	0.41
2:Ct:23:ILE:N	2:Ct:23:ILE:CD1	2.81	0.41
2:Ct:153:GLN:HE22	3:EA:55:SER:CB	2.33	0.41
2:Cv:33:THR:HG21	2:Cv:160:HIS:O	2.20	0.41
2:Cv:103:LEU:HD21	3:ED:163:PRO:HD3	2.01	0.41
2:Cv:166:ARG:HD3	3:EC:110:PHE:O	2.20	0.41
2:Cw:166:ARG:HD3	3:ED:110:PHE:O	2.20	0.41
2:Cx:26:SER:C	3:Do:147:ASP:HB3	2.45	0.41
2:Cx:207:GLN:HB3	3:Do:196:ILE:HG21	2.01	0.41
3:D0:120:PHE:HD2	3:D0:146:TRP:CZ2	2.38	0.41
3:D1:115:ALA:CB	3:D1:194:THR:OG1	2.67	0.41
3:D1:120:PHE:HD2	3:D1:146:TRP:CZ2	2.38	0.41
3:D3:84:GLU:C	3:D3:86:HIS:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D3:223:PRO:HB2	3:D3:224:ASP:H	1.71	0.41
3:D4:36:VAL:HA	3:D4:37:PRO:HD3	1.53	0.41
3:D4:84:GLU:C	3:D4:86:HIS:H	2.28	0.41
3:D5:84:GLU:C	3:D5:86:HIS:H	2.28	0.41
3:D8:119:LYS:HG2	3:D8:147:ASP:CG	2.45	0.41
3:D8:120:PHE:HD2	3:D8:146:TRP:CZ2	2.38	0.41
3:DA:98:ALA:HB2	3:DA:220:VAL:HG21	2.01	0.41
3:DE:53:PHE:N	3:DE:53:PHE:CD1	2.88	0.41
3:DE:86:HIS:ND1	3:DE:86:HIS:C	2.77	0.41
3:DF:79:SER:O	3:DF:81:SER:N	2.51	0.41
3:DH:23:THR:HA	3:DH:24:PRO:HD3	1.89	0.41
3:DJ:43:PHE:O	3:DJ:44:ILE:C	2.60	0.41
3:DL:13:SER:O	3:DM:9:PRO:HD3	2.20	0.41
3:DL:84:GLU:C	3:DL:86:HIS:H	2.28	0.41
3:DL:120:PHE:HD2	3:DL:146:TRP:CZ2	2.38	0.41
3:DN:13:SER:O	3:DO:9:PRO:HD3	2.20	0.41
3:DN:175:THR:HG1	3:DN:178:ASN:CG	2.28	0.41
3:DO:53:PHE:CD1	3:DO:53:PHE:N	2.88	0.41
3:DP:120:PHE:HD2	3:DP:146:TRP:CZ2	2.38	0.41
3:DR:43:PHE:O	3:DR:44:ILE:C	2.60	0.41
3:DT:121:LEU:C	3:DT:121:LEU:CD2	2.89	0.41
3:DW:84:GLU:C	3:DW:86:HIS:H	2.28	0.41
3:DX:98:ALA:HB2	3:DX:220:VAL:HG21	2.01	0.41
3:DZ:36:VAL:HA	3:DZ:37:PRO:HD3	1.53	0.41
3:Da:13:SER:O	3:Db:9:PRO:HD3	2.20	0.41
3:Db:119:LYS:HG2	3:Db:147:ASP:CG	2.45	0.41
3:Dc:53:PHE:N	3:Dc:53:PHE:CD1	2.88	0.41
3:Dg:120:PHE:HD2	3:Dg:146:TRP:CZ2	2.38	0.41
3:Dj:79:SER:O	3:Dj:81:SER:N	2.51	0.41
3:Dk:179:VAL:HG12	3:Dk:181:GLY:N	2.32	0.41
3:Dm:84:GLU:C	3:Dm:86:HIS:H	2.28	0.41
3:Dp:13:SER:O	3:Dq:9:PRO:HD3	2.20	0.41
3:Dq:98:ALA:HB2	3:Dq:220:VAL:HG21	2.01	0.41
3:Dq:175:THR:HG1	3:Dq:178:ASN:CG	2.28	0.41
3:Dr:23:THR:HA	3:Dr:24:PRO:HD3	1.89	0.41
3:EA:120:PHE:HD2	3:EA:146:TRP:CZ2	2.38	0.41
3:EC:84:GLU:C	3:EC:86:HIS:H	2.28	0.41
3:ED:103:SER:HB2	3:ED:159:PRO:HA	1.95	0.41
3:ED:175:THR:HG1	3:ED:178:ASN:CG	2.28	0.41
3:EE:53:PHE:N	3:EE:53:PHE:CD1	2.88	0.41
4:F5:31:GLN:HE21	4:F5:31:GLN:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F9:31:GLN:HE21	4:F9:31:GLN:HA	1.85	0.41
4:FJ:31:GLN:HA	4:FJ:31:GLN:HE21	1.85	0.41
4:FO:29:GLN:HB2	4:FO:30:TYR:HD1	1.84	0.41
4:FO:31:GLN:HE21	4:FO:31:GLN:HA	1.85	0.41
4:FP:29:GLN:HB2	4:FP:30:TYR:HD1	1.84	0.41
4:Fd:29:GLN:HB2	4:Fd:30:TYR:HD1	1.84	0.41
4:Fg:21:ILE:HG22	4:Fg:21:ILE:O	2.20	0.41
4:Fm:31:GLN:HE21	4:Fm:31:GLN:HA	1.85	0.41
4:Ft:21:ILE:HG22	4:Ft:21:ILE:O	2.20	0.41
4:Ft:29:GLN:HB2	4:Ft:30:TYR:HD1	1.84	0.41
1:A0:74:THR:O	1:A0:74:THR:HG22	2.19	0.41
1:A0:219:TYR:CE2	3:D1:39:ARG:HD2	2.55	0.41
1:A2:6:GLU:O	2:C3:162:LEU:N	2.53	0.41
1:A2:41:GLU:O	1:A2:42:THR:HB	2.19	0.41
1:A2:79:PHE:CE2	1:A2:160:TYR:CD2	3.08	0.41
1:A2:146:ILE:HD13	1:A2:146:ILE:HG21	1.74	0.41
1:A2:219:TYR:CE2	3:D3:39:ARG:HD2	2.56	0.41
1:A2:225:PRO:HA	1:A2:226:PRO:HD2	1.87	0.41
1:A3:88:PHE:CA	1:A3:207:CYS:HA	2.48	0.41
1:A3:184:TYR:CE2	2:C4:139:ALA:CB	3.03	0.41
1:A4:132:GLN:OE1	1:A5:66:LEU:HD21	2.20	0.41
1:A4:147:ALA:C	1:A4:149:SER:H	2.28	0.41
1:A4:219:TYR:CE2	3:D5:39:ARG:HD2	2.56	0.41
1:A5:48:LEU:O	1:A5:131:GLN:HG2	2.20	0.41
1:A5:172:ASN:HB2	2:C6:132:TYR:O	2.19	0.41
1:A5:175:GLY:N	1:A5:183:THR:O	2.53	0.41
1:A6:219:TYR:CE2	3:D7:39:ARG:HD2	2.55	0.41
1:A7:188:PRO:HG3	3:D4:176:VAL:CG1	2.50	0.41
1:A8:6:GLU:O	2:C9:162:LEU:N	2.53	0.41
1:A8:41:GLU:O	1:A8:42:THR:HB	2.19	0.41
1:A8:79:PHE:CE2	1:A8:160:TYR:CD2	3.08	0.41
1:A8:138:MET:HE1	1:A9:71:LEU:HD11	2.02	0.41
1:A8:224:ILE:HD11	3:D9:89:TYR:CE1	2.55	0.41
1:A9:103:TRP:CZ2	1:An:208:TYR:CE2	3.06	0.41
1:A9:175:GLY:N	1:A9:183:THR:O	2.53	0.41
1:AA:219:TYR:HA	3:DA:39:ARG:HA	2.02	0.41
1:AA:224:ILE:HD11	3:DA:89:TYR:CE1	2.55	0.41
1:AC:115:THR:HG23	1:AC:133:LEU:N	2.25	0.41
1:AC:143:VAL:H	3:DD:14:PHE:CB	2.28	0.41
1:AD:48:LEU:O	1:AD:131:GLN:HG2	2.20	0.41
1:AD:132:GLN:OE1	1:AE:66:LEU:HD21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:48:LEU:O	1:AE:131:GLN:HG2	2.20	0.41
1:AE:87:GLN:HA	1:AE:153:ALA:HB2	2.02	0.41
1:AE:188:PRO:HG3	3:DA:176:VAL:CG1	2.50	0.41
1:AF:41:GLU:O	1:AF:42:THR:HB	2.19	0.41
1:AF:128:VAL:O	1:AF:128:VAL:HG13	2.19	0.41
1:AH:107:PHE:CE1	1:AH:196:LEU:HB2	2.55	0.41
1:AI:121:LEU:HD21	1:AJ:206:GLY:CA	2.47	0.41
1:AI:132:GLN:OE1	1:AJ:66:LEU:HD21	2.20	0.41
1:AI:219:TYR:CE2	3:DI:39:ARG:HD2	2.55	0.41
1:AJ:175:GLY:N	1:AJ:183:THR:O	2.52	0.41
1:AJ:220:CYS:HA	1:AJ:221:PRO:HD2	1.82	0.41
1:AJ:239:PHE:CD2	3:DJ:226:GLN:NE2	2.87	0.41
1:AK:206:GLY:CA	1:AO:121:LEU:HD21	2.47	0.41
1:AL:49:THR:CG2	1:AL:50:GLY:N	2.83	0.41
1:AL:224:ILE:HD11	3:DL:89:TYR:CE1	2.55	0.41
1:AP:88:PHE:CA	1:AP:207:CYS:HA	2.48	0.41
1:AQ:191:HIS:HB2	1:AQ:192:PHE:H	1.71	0.41
1:AQ:225:PRO:HA	1:AQ:226:PRO:HD2	1.88	0.41
1:AR:20:SER:HA	1:AR:21:PRO:HD3	1.92	0.41
1:AR:128:VAL:O	1:AR:128:VAL:HG13	2.19	0.41
1:AR:187:LEU:HD13	1:AR:187:LEU:C	2.44	0.41
1:AR:224:ILE:HA	1:AR:225:PRO:HD2	1.86	0.41
1:AS:79:PHE:CE2	1:AS:160:TYR:CD2	3.08	0.41
1:AS:219:TYR:CE2	3:DT:39:ARG:HD2	2.55	0.41
1:AT:62:SER:HB2	1:AT:73:ASN:ND2	2.27	0.41
1:AT:128:VAL:O	1:AT:128:VAL:HG13	2.19	0.41
1:AT:219:TYR:CE2	3:DU:39:ARG:HD2	2.56	0.41
1:AU:128:VAL:O	1:AU:128:VAL:HG13	2.19	0.41
1:AV:87:GLN:HA	1:AV:153:ALA:HB2	2.02	0.41
1:AV:219:TYR:CE2	3:DW:39:ARG:HD2	2.55	0.41
1:AV:234:LYS:HA	1:AV:234:LYS:HD3	1.89	0.41
1:AW:6:GLU:O	2:CX:162:LEU:N	2.53	0.41
1:AW:48:LEU:O	1:AW:131:GLN:HG2	2.20	0.41
1:AW:219:TYR:HD2	3:DX:39:ARG:HB2	1.79	0.41
1:AX:48:LEU:HA	1:AX:198:THR:OG1	2.20	0.41
1:AY:106:TRP:CZ2	1:AY:158:VAL:HG13	2.54	0.41
1:AY:147:ALA:C	1:AY:149:SER:H	2.28	0.41
1:AY:239:PHE:CD2	3:DZ:226:GLN:NE2	2.87	0.41
1:AZ:93:THR:O	1:AZ:95:SER:N	2.53	0.41
1:Aa:71:LEU:HD11	1:An:138:MET:HE1	2.02	0.41
1:Aa:103:TRP:CZ2	1:Ab:208:TYR:CE2	3.06	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:48:LEU:HA	1:Ab:198:THR:OG1	2.20	0.41
1:Ab:93:THR:O	1:Ab:95:SER:N	2.53	0.41
1:Ac:132:GLN:OE1	1:Ad:66:LEU:HD21	2.20	0.41
1:Ac:224:ILE:HA	1:Ac:225:PRO:HD2	1.86	0.41
1:Ad:128:VAL:O	1:Ad:128:VAL:HG13	2.19	0.41
1:Ad:174:TRP:HB2	2:Cf:188:LEU:CD2	2.44	0.41
1:Ae:219:TYR:CE2	3:Dg:39:ARG:HD2	2.55	0.41
1:Ae:224:ILE:HD11	3:Dg:89:TYR:CE1	2.55	0.41
1:Af:6:GLU:O	2:Ch:162:LEU:N	2.53	0.41
1:Ah:65:GLN:HG2	1:Ah:70:ARG:HD2	2.01	0.41
1:Aj:48:LEU:O	1:Aj:131:GLN:HG2	2.20	0.41
1:Ak:43:LEU:N	1:Ak:43:LEU:CD2	2.74	0.41
1:Ak:132:GLN:OE1	1:Al:66:LEU:HD21	2.20	0.41
1:Al:146:ILE:HD13	1:Al:146:ILE:HG21	1.74	0.41
1:Al:219:TYR:CE2	3:Dn:39:ARG:HD2	2.55	0.41
1:An:48:LEU:HA	1:An:198:THR:OG1	2.20	0.41
1:Ao:48:LEU:HA	1:Ao:198:THR:OG1	2.20	0.41
1:Ao:188:PRO:HG3	3:DT:176:VAL:CG1	2.50	0.41
1:BA:48:LEU:HA	1:BA:198:THR:OG1	2.20	0.41
1:BA:93:THR:O	1:BA:95:SER:N	2.53	0.41
1:BA:188:PRO:HG3	3:Dq:176:VAL:CG1	2.50	0.41
1:BA:219:TYR:CE2	3:Dp:39:ARG:HD2	2.55	0.41
1:BB:48:LEU:O	1:BB:131:GLN:HG2	2.20	0.41
1:BC:147:ALA:C	1:BC:149:SER:H	2.28	0.41
1:BD:88:PHE:CA	1:BD:207:CYS:HA	2.48	0.41
1:BF:6:GLU:O	2:Cu:162:LEU:N	2.53	0.41
1:BG:6:GLU:O	2:Cv:162:LEU:N	2.53	0.41
1:BG:147:ALA:C	1:BG:149:SER:H	2.28	0.41
1:BG:239:PHE:CD2	3:EC:226:GLN:NE2	2.87	0.41
1:BH:6:GLU:O	2:Cw:162:LEU:N	2.53	0.41
1:BI:219:TYR:HD2	3:EE:39:ARG:HB2	1.79	0.41
2:C0:33:THR:HG21	2:C0:160:HIS:O	2.20	0.41
2:C0:36:TYR:CE2	2:C0:130:PRO:CG	2.98	0.41
2:C2:23:ILE:N	2:C2:23:ILE:CD1	2.81	0.41
2:C7:135:THR:HB	2:C7:139:ALA:CB	2.50	0.41
2:C8:166:ARG:HD3	3:D8:110:PHE:O	2.20	0.41
2:C9:49:ASP:HA	2:C9:50:PRO:HD2	1.80	0.41
2:C9:115:ASN:C	3:Dl:119:LYS:NZ	2.77	0.41
2:C9:135:THR:HB	2:C9:139:ALA:CB	2.50	0.41
2:CA:103:LEU:HD12	2:CA:223:ASN:HB2	2.02	0.41
2:CC:42:ARG:HA	2:CC:43:PRO:HD2	1.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:28:GLY:O	2:CD:168:ASN:HB2	2.21	0.41
2:CD:166:ARG:HD3	3:DD:110:PHE:O	2.20	0.41
2:CE:58:LEU:HB3	2:CE:59:SER:H	1.65	0.41
2:CE:68:GLU:O	2:CE:69:TRP:C	2.63	0.41
2:CE:69:TRP:HZ2	2:CE:198:ILE:HG23	1.84	0.41
2:CG:57:THR:O	2:CG:58:LEU:CB	2.66	0.41
2:CH:26:SER:C	3:Ds:147:ASP:HB3	2.45	0.41
2:CH:103:LEU:HD12	2:CH:223:ASN:HB2	2.02	0.41
2:CK:68:GLU:O	2:CK:69:TRP:C	2.63	0.41
2:CL:58:LEU:HB3	2:CL:59:SER:H	1.65	0.41
2:CL:135:THR:HB	2:CL:139:ALA:CB	2.50	0.41
2:CM:166:ARG:HD3	3:DM:110:PHE:O	2.20	0.41
2:CP:28:GLY:O	2:CP:168:ASN:HB2	2.21	0.41
2:CP:153:GLN:HE22	3:DP:55:SER:CB	2.33	0.41
2:CQ:135:THR:O	2:CQ:137:GLU:N	2.53	0.41
2:CR:103:LEU:HD21	3:DS:163:PRO:HD3	2.01	0.41
2:CR:153:GLN:HE22	3:DR:55:SER:CB	2.33	0.41
2:CS:33:THR:HG21	2:CS:160:HIS:O	2.20	0.41
2:CS:46:THR:CG2	3:DT:165:ASP:HA	2.38	0.41
2:CS:77:HIS:HE1	2:CS:144:GLU:HG2	1.84	0.41
2:CT:153:GLN:HE22	3:DT:55:SER:CB	2.33	0.41
2:CV:103:LEU:HD12	2:CV:223:ASN:HB2	2.02	0.41
2:CZ:68:GLU:O	2:CZ:69:TRP:C	2.63	0.41
2:CZ:115:ASN:C	3:Dq:119:LYS:NZ	2.77	0.41
2:Ca:26:SER:C	3:DL:147:ASP:HB3	2.45	0.41
2:Ca:33:THR:HG21	2:Ca:160:HIS:O	2.20	0.41
2:Cd:36:TYR:CE2	2:Cd:130:PRO:CG	2.98	0.41
2:Cd:166:ARG:HD3	3:Dd:110:PHE:O	2.20	0.41
2:Ce:25:ASN:O	2:Ce:26:SER:HB3	2.18	0.41
2:Cf:69:TRP:HZ2	2:Cf:198:ILE:HG23	1.85	0.41
2:Cf:103:LEU:HD12	2:Cf:223:ASN:HB2	2.02	0.41
2:Cf:166:ARG:HD3	3:Df:110:PHE:O	2.20	0.41
2:Cg:68:GLU:O	2:Cg:69:TRP:C	2.63	0.41
2:Ch:33:THR:HG21	2:Ch:160:HIS:O	2.20	0.41
2:Ch:68:GLU:O	2:Ch:69:TRP:C	2.63	0.41
2:Cl:117:SER:HB3	3:D8:192:THR:CG2	2.47	0.41
2:Cm:115:ASN:C	3:DD:119:LYS:NZ	2.77	0.41
2:Cm:135:THR:O	2:Cm:137:GLU:N	2.53	0.41
2:Cn:36:TYR:CE2	2:Cn:130:PRO:CG	2.98	0.41
2:Cp:42:ARG:HA	2:Cp:43:PRO:HD2	1.65	0.41
2:Cp:153:GLN:HE22	3:Dp:55:SER:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cq:28:GLY:O	2:Cq:168:ASN:HB2	2.20	0.41
2:Cq:166:ARG:HD3	3:Dq:110:PHE:O	2.20	0.41
2:Cs:65:LYS:CB	3:EA:135:ARG:HH21	2.29	0.41
2:Cu:135:THR:O	2:Cu:137:GLU:N	2.53	0.41
3:D0:75:GLN:NE2	3:D0:184:GLN:OE1	2.49	0.41
3:D1:119:LYS:HG2	3:D1:147:ASP:CG	2.45	0.41
3:D2:119:LYS:HG2	3:D2:147:ASP:CG	2.45	0.41
3:D4:64:VAL:HG13	3:D4:120:PHE:HE1	1.85	0.41
3:D7:13:SER:O	3:D8:9:PRO:HD3	2.20	0.41
3:D9:43:PHE:O	3:D9:44:ILE:C	2.60	0.41
3:D9:53:PHE:CD1	3:D9:53:PHE:N	2.88	0.41
3:D9:64:VAL:HG13	3:D9:120:PHE:HE1	1.85	0.41
3:D9:84:GLU:C	3:D9:86:HIS:H	2.28	0.41
3:DC:84:GLU:C	3:DC:86:HIS:H	2.28	0.41
3:DF:152:SER:O	3:DF:153:ALA:HB2	2.21	0.41
3:DG:86:HIS:ND1	3:DG:86:HIS:C	2.77	0.41
3:DH:120:PHE:HD2	3:DH:146:TRP:CZ2	2.38	0.41
3:DM:13:SER:O	3:DN:9:PRO:HD3	2.20	0.41
3:DM:120:PHE:HD2	3:DM:146:TRP:CZ2	2.38	0.41
3:DN:36:VAL:HA	3:DN:37:PRO:HD3	1.53	0.41
3:DO:175:THR:HG1	3:DO:178:ASN:CG	2.28	0.41
3:DT:79:SER:O	3:DT:81:SER:N	2.51	0.41
3:DT:84:GLU:C	3:DT:86:HIS:H	2.28	0.41
3:DU:9:PRO:HD3	3:DY:13:SER:O	2.20	0.41
3:DW:175:THR:HG1	3:DW:178:ASN:CG	2.28	0.41
3:DX:64:VAL:HG13	3:DX:120:PHE:HE1	1.86	0.41
3:Da:84:GLU:C	3:Da:86:HIS:H	2.28	0.41
3:Dc:84:GLU:C	3:Dc:86:HIS:H	2.28	0.41
3:Dc:120:PHE:HD2	3:Dc:146:TRP:CZ2	2.38	0.41
3:Df:175:THR:HG1	3:Df:178:ASN:CG	2.28	0.41
3:Dg:53:PHE:N	3:Dg:53:PHE:CD1	2.88	0.41
3:Dh:64:VAL:HG13	3:Dh:120:PHE:HE1	1.86	0.41
3:Dh:84:GLU:C	3:Dh:86:HIS:H	2.28	0.41
3:Di:175:THR:HG1	3:Di:178:ASN:CG	2.28	0.41
3:Dk:223:PRO:HB2	3:Dk:224:ASP:H	1.71	0.41
3:Dl:53:PHE:CD1	3:Dl:53:PHE:N	2.88	0.41
3:Dm:8:VAL:CG1	3:Dm:9:PRO:HD2	2.39	0.41
3:Dm:53:PHE:CD1	3:Dm:53:PHE:N	2.88	0.41
3:Dn:53:PHE:N	3:Dn:53:PHE:CD1	2.88	0.41
3:Dq:79:SER:O	3:Dq:81:SER:N	2.51	0.41
3:Dq:119:LYS:HG2	3:Dq:147:ASP:CG	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EA:119:LYS:HG2	3:EA:147:ASP:CG	2.45	0.41
3:EA:119:LYS:O	3:EA:120:PHE:CB	2.67	0.41
3:EC:120:PHE:HD2	3:EC:146:TRP:CZ2	2.38	0.41
3:ED:179:VAL:HG12	3:ED:181:GLY:N	2.33	0.41
4:F3:21:ILE:HG22	4:F3:21:ILE:O	2.20	0.41
4:F8:21:ILE:O	4:F8:21:ILE:HG22	2.20	0.41
4:FD:21:ILE:O	4:FD:21:ILE:HG22	2.20	0.41
4:FG:31:GLN:HA	4:FG:31:GLN:HE21	1.85	0.41
4:FU:32:ASN:HB3	4:FU:33:SER:H	1.58	0.41
4:FY:32:ASN:HB3	4:FY:33:SER:H	1.58	0.41
4:Fb:31:GLN:HE21	4:Fb:31:GLN:HA	1.85	0.41
4:Fe:18:SER:O	4:Fe:23:GLN:NE2	2.52	0.41
4:Ff:31:GLN:HE21	4:Ff:31:GLN:HA	1.85	0.41
4:Fj:31:GLN:HA	4:Fj:31:GLN:HE21	1.85	0.41
4:Fm:21:ILE:HG22	4:Fm:21:ILE:O	2.20	0.41
1:A0:6:GLU:O	2:C1:162:LEU:N	2.53	0.41
1:A0:71:LEU:HD11	1:AZ:138:MET:HE1	2.03	0.41
1:A0:147:ALA:C	1:A0:149:SER:H	2.28	0.41
1:A1:41:GLU:O	1:A1:42:THR:HB	2.19	0.41
1:A1:88:PHE:CA	1:A1:207:CYS:HA	2.48	0.41
1:A2:92:THR:HB	1:A2:93:THR:H	1.62	0.41
1:A4:168:PRO:HB3	2:C5:180:PRO:HB3	2.03	0.41
1:A5:48:LEU:HA	1:A5:198:THR:OG1	2.20	0.41
1:A5:140:PRO:HB3	3:D6:25:LEU:HB3	2.03	0.41
1:A6:48:LEU:HA	1:A6:198:THR:OG1	2.20	0.41
1:A6:93:THR:O	1:A6:95:SER:N	2.53	0.41
1:A6:132:GLN:OE1	1:A7:66:LEU:HD21	2.20	0.41
1:A7:48:LEU:O	1:A7:131:GLN:HG2	2.20	0.41
1:A7:147:ALA:C	1:A7:149:SER:H	2.28	0.41
1:A7:224:ILE:HD11	3:D8:89:TYR:CE1	2.55	0.41
1:A8:110:GLY:H	1:A9:242:ASN:ND2	2.12	0.41
1:A8:184:TYR:HE2	2:C9:139:ALA:HB3	1.84	0.41
1:AA:48:LEU:O	1:AA:131:GLN:HG2	2.21	0.41
1:AA:66:LEU:HD21	1:AE:132:GLN:OE1	2.20	0.41
1:AA:132:GLN:OE1	1:AB:66:LEU:HD21	2.20	0.41
1:AA:188:PRO:HG3	3:DB:176:VAL:CG1	2.50	0.41
1:AB:93:THR:O	1:AB:95:SER:N	2.53	0.41
1:AB:103:TRP:CZ2	1:AC:208:TYR:CE2	3.06	0.41
1:AB:170:PHE:HD2	1:AB:222:ARG:NH1	2.17	0.41
1:AB:172:ASN:HB2	2:CB:132:TYR:O	2.19	0.41
1:AB:175:GLY:N	1:AB:183:THR:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:128:VAL:O	1:AC:128:VAL:HG13	2.19	0.41
1:AC:219:TYR:HA	3:DC:39:ARG:HA	2.02	0.41
1:AD:6:GLU:O	2:CD:162:LEU:N	2.53	0.41
1:AD:174:TRP:HB2	2:CD:188:LEU:CD2	2.44	0.41
1:AD:219:TYR:CE2	3:DD:39:ARG:HD2	2.55	0.41
1:AE:107:PHE:CE1	1:AE:196:LEU:HB2	2.55	0.41
1:AF:219:TYR:HA	3:DF:39:ARG:HA	2.02	0.41
1:AF:219:TYR:CE2	3:DF:39:ARG:HD2	2.55	0.41
1:AG:121:LEU:HD21	1:AH:206:GLY:CA	2.47	0.41
1:AG:168:PRO:HB3	2:CG:180:PRO:HB3	2.02	0.41
1:AG:188:PRO:HG3	3:DH:176:VAL:CG1	2.50	0.41
1:AG:224:ILE:HD11	3:DG:89:TYR:CE1	2.55	0.41
1:AH:219:TYR:CE2	3:DH:39:ARG:HD2	2.55	0.41
1:AJ:6:GLU:O	2:CJ:162:LEU:N	2.53	0.41
1:AJ:143:VAL:H	3:DF:14:PHE:CB	2.28	0.41
1:AL:225:PRO:HA	1:AL:226:PRO:HD2	1.88	0.41
1:AL:243:ILE:H	1:AL:243:ILE:HG13	1.70	0.41
1:AM:41:GLU:O	1:AM:42:THR:HB	2.19	0.41
1:AM:48:LEU:O	1:AM:131:GLN:HG2	2.20	0.41
1:AM:172:ASN:HB2	2:CM:132:TYR:O	2.19	0.41
1:AN:175:GLY:N	1:AN:183:THR:O	2.52	0.41
1:AN:188:PRO:HG3	3:DO:176:VAL:CG1	2.50	0.41
1:AN:224:ILE:HD11	3:DN:89:TYR:CE1	2.55	0.41
1:AN:234:LYS:HA	1:AN:234:LYS:HD3	1.89	0.41
1:AO:48:LEU:O	1:AO:131:GLN:HG2	2.21	0.41
1:AP:49:THR:CG2	1:AP:50:GLY:N	2.83	0.41
1:AP:66:LEU:HD21	1:AS:132:GLN:OE1	2.20	0.41
1:AQ:43:LEU:HD23	1:AQ:43:LEU:H	1.81	0.41
1:AQ:48:LEU:HA	1:AQ:198:THR:OG1	2.20	0.41
1:AQ:147:ALA:C	1:AQ:149:SER:H	2.28	0.41
1:AR:41:GLU:O	1:AR:42:THR:HB	2.19	0.41
1:AR:188:PRO:HG3	3:DS:176:VAL:CG1	2.50	0.41
1:AR:219:TYR:HA	3:DR:39:ARG:HA	2.02	0.41
1:AS:224:ILE:HA	1:AS:225:PRO:HD2	1.86	0.41
1:AT:6:GLU:O	2:CU:162:LEU:N	2.53	0.41
1:AT:132:GLN:OE1	1:AU:66:LEU:HD21	2.20	0.41
1:AV:48:LEU:O	1:AV:131:GLN:HG2	2.20	0.41
1:AV:132:GLN:OE1	1:AW:66:LEU:HD21	2.20	0.41
1:AW:48:LEU:HA	1:AW:198:THR:OG1	2.20	0.41
1:AW:175:GLY:N	1:AW:183:THR:O	2.52	0.41
1:AX:79:PHE:CE2	1:AX:160:TYR:CD2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:93:THR:O	1:AX:95:SER:N	2.53	0.41
1:AY:175:GLY:N	1:AY:183:THR:O	2.52	0.41
1:AY:188:PRO:HG3	3:D0:176:VAL:CG1	2.50	0.41
1:AZ:140:PRO:HB3	3:D0:25:LEU:HB3	2.03	0.41
1:AZ:174:TRP:HB2	2:C0:188:LEU:CD2	2.44	0.41
1:AZ:175:GLY:N	1:AZ:183:THR:O	2.52	0.41
1:Aa:6:GLU:O	2:Cc:162:LEU:N	2.53	0.41
1:Aa:48:LEU:HA	1:Aa:198:THR:OG1	2.20	0.41
1:Aa:93:THR:O	1:Aa:95:SER:N	2.53	0.41
1:Aa:110:GLY:H	1:Ab:242:ASN:ND2	2.12	0.41
1:Ab:219:TYR:CE2	3:Dd:39:ARG:HD2	2.56	0.41
1:Ac:243:ILE:H	1:Ac:243:ILE:HG13	1.70	0.41
1:Ad:170:PHE:HD2	1:Ad:222:ARG:NH1	2.17	0.41
1:Ad:219:TYR:CE2	3:Df:39:ARG:HD2	2.55	0.41
1:Ae:49:THR:HG22	1:Ae:50:GLY:H	1.82	0.41
1:Af:88:PHE:CA	1:Af:207:CYS:HA	2.48	0.41
1:Af:138:MET:HE1	1:Ag:71:LEU:HD11	2.03	0.41
1:Af:175:GLY:N	1:Af:183:THR:O	2.52	0.41
1:Af:188:PRO:HG3	3:Di:176:VAL:CG1	2.50	0.41
1:Af:219:TYR:CE2	3:Dh:39:ARG:HD2	2.55	0.41
1:Ag:48:LEU:HA	1:Ag:198:THR:OG1	2.20	0.41
1:Ag:175:GLY:N	1:Ag:183:THR:O	2.52	0.41
1:Ai:143:VAL:H	3:Di:14:PHE:CB	2.28	0.41
1:Ak:101:PHE:CD2	1:Ak:143:VAL:CG1	2.91	0.41
1:Ak:225:PRO:HA	1:Ak:226:PRO:HD2	1.88	0.41
1:Al:93:THR:O	1:Al:95:SER:N	2.53	0.41
1:Al:224:ILE:HD11	3:Dn:89:TYR:CE1	2.55	0.41
1:Am:48:LEU:HA	1:Am:198:THR:OG1	2.20	0.41
1:Am:121:LEU:HD21	1:BA:206:GLY:CA	2.47	0.41
1:Am:184:TYR:HE2	2:Co:139:ALA:HB2	1.86	0.41
1:An:6:GLU:O	2:Cb:162:LEU:N	2.53	0.41
1:Ao:43:LEU:HD23	1:Ao:43:LEU:H	1.81	0.41
1:Ao:87:GLN:HA	1:Ao:153:ALA:HB2	2.02	0.41
1:Ao:101:PHE:O	1:Ao:199:SER:OG	2.33	0.41
1:BA:106:TRP:CZ2	1:BA:158:VAL:HG13	2.54	0.41
1:BD:107:PHE:CE1	1:BD:196:LEU:HB2	2.55	0.41
1:BE:93:THR:O	1:BE:95:SER:N	2.53	0.41
1:BF:79:PHE:CE2	1:BF:160:TYR:CD2	3.08	0.41
1:BF:107:PHE:CE1	1:BF:196:LEU:HB2	2.55	0.41
1:BF:164:TRP:HE1	1:BF:187:LEU:CD1	2.28	0.41
1:BG:48:LEU:HA	1:BG:198:THR:OG1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:139:SER:HA	1:BG:140:PRO:HD3	1.62	0.41
1:BG:140:PRO:HB3	3:EC:25:LEU:HB3	2.03	0.41
1:BG:168:PRO:HB3	2:Cv:180:PRO:HB3	2.03	0.41
1:BG:219:TYR:CE2	3:EC:39:ARG:HD2	2.55	0.41
1:BH:48:LEU:HA	1:BH:198:THR:OG1	2.20	0.41
1:BH:184:TYR:HE2	2:Cw:139:ALA:HB3	1.84	0.41
1:BH:219:TYR:CE2	3:ED:39:ARG:HD2	2.55	0.41
1:BI:49:THR:CG2	1:BI:50:GLY:N	2.83	0.41
1:BI:79:PHE:CE2	1:BI:160:TYR:CD2	3.08	0.41
1:BI:219:TYR:CE2	3:EE:39:ARG:HD2	2.55	0.41
2:C1:69:TRP:HZ2	2:C1:198:ILE:HG23	1.85	0.41
2:C2:135:THR:HB	2:C2:139:ALA:CB	2.50	0.41
2:C3:28:GLY:O	2:C3:168:ASN:HB2	2.21	0.41
2:C3:77:HIS:HE1	2:C3:144:GLU:HG2	1.84	0.41
2:C4:77:HIS:HE1	2:C4:144:GLU:HG2	1.84	0.41
2:C4:135:THR:O	2:C4:137:GLU:N	2.53	0.41
2:C5:28:GLY:O	2:C5:168:ASN:HB2	2.21	0.41
2:C5:57:THR:O	2:C5:58:LEU:CB	2.66	0.41
2:C6:56:PRO:C	2:C6:57:THR:O	2.59	0.41
2:C7:57:THR:O	2:C7:58:LEU:CB	2.66	0.41
2:C8:115:ASN:C	3:D9:119:LYS:NZ	2.77	0.41
2:CB:69:TRP:HZ2	2:CB:198:ILE:HG23	1.85	0.41
2:CB:209:VAL:N	2:CB:210:PRO:CD	2.68	0.41
2:CC:153:GLN:HE22	3:DC:55:SER:CB	2.33	0.41
2:CD:180:PRO:HD2	2:CD:189:HIS:HE1	1.76	0.41
2:CE:88:LEU:C	2:CE:90:LYS:N	2.79	0.41
2:CH:117:SER:HB3	3:Ds:192:THR:CG2	2.47	0.41
2:CJ:26:SER:C	3:DA:147:ASP:HB3	2.45	0.41
2:CJ:153:GLN:HE22	3:DJ:55:SER:CB	2.33	0.41
2:CK:153:GLN:HE22	3:DK:55:SER:CB	2.33	0.41
2:CL:88:LEU:C	2:CL:90:LYS:N	2.79	0.41
2:CL:212:THR:HG23	3:Dk:188:LEU:HD22	1.96	0.41
2:CM:28:GLY:O	2:CM:168:ASN:HB2	2.20	0.41
2:CN:57:THR:O	2:CN:58:LEU:CB	2.66	0.41
2:CN:166:ARG:HD3	3:DN:110:PHE:O	2.20	0.41
2:CS:153:GLN:HE22	3:DS:55:SER:CB	2.33	0.41
2:CU:103:LEU:HD21	3:DV:163:PRO:HD3	2.01	0.41
2:CU:129:VAL:HA	2:CU:130:PRO:HD3	1.77	0.41
2:CW:56:PRO:C	2:CW:57:THR:O	2.59	0.41
2:CY:135:THR:HB	2:CY:139:ALA:CB	2.50	0.41
2:CZ:28:GLY:O	2:CZ:168:ASN:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ca:103:LEU:HD12	2:Ca:223:ASN:HB2	2.02	0.41
2:Cc:68:GLU:O	2:Cc:69:TRP:C	2.63	0.41
2:Cc:77:HIS:HE1	2:Cc:144:GLU:HG2	1.84	0.41
2:Cc:134:HIS:HB3	2:Cc:135:THR:H	1.46	0.41
2:Cd:26:SER:C	3:D4:147:ASP:HB3	2.45	0.41
2:Cd:153:GLN:HE22	3:Dd:55:SER:N	2.19	0.41
2:Ce:33:THR:HG21	2:Ce:160:HIS:O	2.20	0.41
2:Cf:135:THR:HB	2:Cf:139:ALA:CB	2.50	0.41
2:Cg:26:SER:C	3:D3:147:ASP:HB3	2.45	0.41
2:Ci:23:ILE:N	2:Ci:23:ILE:CD1	2.81	0.41
2:Ci:135:THR:O	2:Ci:137:GLU:N	2.53	0.41
2:Cm:26:SER:C	3:DD:147:ASP:HB3	2.45	0.41
2:Cm:153:GLN:HE22	3:Dm:55:SER:CB	2.33	0.41
2:Cn:166:ARG:HD3	3:Dn:110:PHE:O	2.20	0.41
2:Co:135:THR:HB	2:Co:139:ALA:CB	2.50	0.41
2:Cp:28:GLY:O	2:Cp:168:ASN:HB2	2.20	0.41
2:Cp:57:THR:O	2:Cp:59:SER:N	2.52	0.41
2:Cq:103:LEU:O	2:Cq:223:ASN:ND2	2.49	0.41
2:Cr:26:SER:C	3:DI:147:ASP:HB3	2.45	0.41
2:Cr:28:GLY:O	2:Cr:168:ASN:HB2	2.21	0.41
2:Cr:103:LEU:HD12	2:Cr:223:ASN:HB2	2.02	0.41
2:Cs:77:HIS:HE1	2:Cs:144:GLU:HG2	1.84	0.41
2:Ct:55:GLY:HA2	2:Ct:56:PRO:HD3	1.80	0.41
2:Ct:57:THR:O	2:Ct:59:SER:N	2.52	0.41
2:Ct:103:LEU:HD12	2:Ct:223:ASN:HB2	2.02	0.41
2:Cu:26:SER:C	3:D5:147:ASP:HB3	2.45	0.41
2:Cx:103:LEU:HD21	3:EA:163:PRO:HD3	2.01	0.41
3:D0:103:SER:HB2	3:D0:159:PRO:HA	1.95	0.41
3:D0:152:SER:O	3:D0:153:ALA:HB2	2.21	0.41
3:D1:64:VAL:HG13	3:D1:120:PHE:HE1	1.85	0.41
3:D1:98:ALA:HB2	3:D1:220:VAL:HG21	2.01	0.41
3:D2:64:VAL:HG13	3:D2:120:PHE:HE1	1.85	0.41
3:D5:120:PHE:HD2	3:D5:146:TRP:CZ2	2.38	0.41
3:D6:179:VAL:HG12	3:D6:181:GLY:N	2.33	0.41
3:D8:53:PHE:CD1	3:D8:53:PHE:N	2.88	0.41
3:D9:98:ALA:HB2	3:D9:220:VAL:HG21	2.01	0.41
3:DB:101:ARG:HH12	3:DB:165:ASP:HB3	1.84	0.41
3:DB:120:PHE:HD2	3:DB:146:TRP:CZ2	2.38	0.41
3:DC:120:PHE:HD2	3:DC:146:TRP:CZ2	2.38	0.41
3:DE:115:ALA:CB	3:DE:194:THR:OG1	2.67	0.41
3:DG:13:SER:O	3:DH:9:PRO:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DG:64:VAL:HG13	3:DG:120:PHE:HE1	1.85	0.41
3:DH:98:ALA:HB2	3:DH:220:VAL:HG21	2.01	0.41
3:DI:64:VAL:HG13	3:DI:120:PHE:HE1	1.85	0.41
3:DI:152:SER:O	3:DI:153:ALA:HB2	2.21	0.41
3:DJ:64:VAL:HG13	3:DJ:120:PHE:HE1	1.86	0.41
3:DL:53:PHE:CD1	3:DL:53:PHE:N	2.88	0.41
3:DN:152:SER:O	3:DN:153:ALA:HB2	2.20	0.41
3:DP:103:SER:HB2	3:DP:159:PRO:HA	1.95	0.41
3:DQ:53:PHE:N	3:DQ:53:PHE:CD1	2.88	0.41
3:DR:64:VAL:HG13	3:DR:120:PHE:HE1	1.85	0.41
3:DX:79:SER:O	3:DX:81:SER:N	2.51	0.41
3:DZ:175:THR:HG1	3:DZ:178:ASN:CG	2.28	0.41
3:Da:54:CYS:SG	3:Da:208:VAL:HG21	2.61	0.41
3:Dd:119:LYS:HG2	3:Dd:147:ASP:CG	2.45	0.41
3:Df:79:SER:O	3:Df:81:SER:N	2.51	0.41
3:Df:98:ALA:HB2	3:Df:220:VAL:HG21	2.01	0.41
3:Dh:120:PHE:HD2	3:Dh:146:TRP:CZ2	2.38	0.41
3:Dk:64:VAL:HG13	3:Dk:120:PHE:HE1	1.86	0.41
3:Dk:175:THR:HG1	3:Dk:178:ASN:CG	2.28	0.41
3:Dl:120:PHE:HD2	3:Dl:146:TRP:CZ2	2.38	0.41
3:Dn:84:GLU:C	3:Dn:86:HIS:H	2.28	0.41
3:Dp:121:LEU:C	3:Dp:121:LEU:CD2	2.89	0.41
3:Dr:119:LYS:HG2	3:Dr:147:ASP:CG	2.45	0.41
3:Dr:120:PHE:HD2	3:Dr:146:TRP:CZ2	2.38	0.41
3:EA:84:GLU:C	3:EA:86:HIS:H	2.28	0.41
3:EA:152:SER:O	3:EA:153:ALA:HB2	2.21	0.41
3:EB:120:PHE:HD2	3:EB:146:TRP:CZ2	2.38	0.41
3:EE:100:TYR:CD1	3:EE:100:TYR:C	2.99	0.41
4:F0:32:ASN:HB3	4:F0:33:SER:H	1.58	0.41
4:F1:21:ILE:O	4:F1:21:ILE:HG22	2.20	0.41
4:F2:31:GLN:HA	4:F2:31:GLN:HE21	1.85	0.41
4:F8:31:GLN:HE21	4:F8:31:GLN:HA	1.85	0.41
4:F9:31:GLN:HB3	4:F9:32:ASN:H	1.72	0.41
4:FE:31:GLN:HE21	4:FE:31:GLN:HA	1.85	0.41
4:FI:29:GLN:HB2	4:FI:30:TYR:HD1	1.84	0.41
4:FU:21:ILE:HG22	4:FU:21:ILE:O	2.20	0.41
4:FW:21:ILE:HG22	4:FW:21:ILE:O	2.20	0.41
4:FX:31:GLN:HE21	4:FX:31:GLN:HA	1.85	0.41
4:Fh:32:ASN:HB3	4:Fh:33:SER:H	1.58	0.41
4:Ft:31:GLN:HA	4:Ft:31:GLN:HE21	1.85	0.41
4:Fu:21:ILE:HG22	4:Fu:21:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Fu:31:GLN:HE21	4:Fu:31:GLN:HA	1.85	0.41
1:A0:93:THR:O	1:A0:95:SER:N	2.53	0.41
1:A1:184:TYR:CE2	2:C2:139:ALA:CB	3.03	0.41
1:A2:175:GLY:N	1:A2:183:THR:O	2.52	0.41
1:A2:184:TYR:HE2	2:C3:139:ALA:HB3	1.84	0.41
1:A3:71:LEU:HD11	1:A7:138:MET:HE1	2.02	0.41
1:A3:175:GLY:N	1:A3:183:THR:O	2.52	0.41
1:A3:219:TYR:CE2	3:D4:39:ARG:HD2	2.55	0.41
1:A4:6:GLU:O	2:C5:162:LEU:N	2.53	0.41
1:A4:48:LEU:HA	1:A4:198:THR:OG1	2.20	0.41
1:A4:188:PRO:HG3	3:D6:176:VAL:CG1	2.50	0.41
1:A5:41:GLU:O	1:A5:42:THR:HB	2.19	0.41
1:A7:6:GLU:O	2:C8:162:LEU:N	2.53	0.41
1:A7:79:PHE:CE2	1:A7:160:TYR:CD2	3.08	0.41
1:A7:87:GLN:HA	1:A7:153:ALA:HB2	2.02	0.41
1:A8:71:LEU:HD11	1:Ab:138:MET:HE1	2.03	0.41
1:A8:93:THR:O	1:A8:95:SER:N	2.53	0.41
1:A9:6:GLU:O	2:Ca:162:LEU:N	2.53	0.41
1:A9:224:ILE:HD11	3:Da:89:TYR:CE1	2.55	0.41
1:AA:93:THR:O	1:AA:95:SER:N	2.53	0.41
1:AA:115:THR:HG23	1:AA:133:LEU:N	2.25	0.41
1:AA:140:PRO:HB3	3:DA:25:LEU:HB3	2.03	0.41
1:AA:164:TRP:HE1	1:AA:187:LEU:CD1	2.28	0.41
1:AB:6:GLU:O	2:CB:162:LEU:N	2.53	0.41
1:AB:138:MET:HE1	1:AC:71:LEU:HD11	2.02	0.41
1:AC:49:THR:CG2	1:AC:50:GLY:N	2.83	0.41
1:AC:72:LEU:O	1:AC:75:CYS:SG	2.76	0.41
1:AC:103:TRP:CZ2	1:AD:208:TYR:CE2	3.06	0.41
1:AC:184:TYR:HE2	2:CC:139:ALA:HB2	1.85	0.41
1:AD:144:PHE:CD2	1:AD:154:CYS:HB3	2.54	0.41
1:AD:239:PHE:CD2	3:DD:226:GLN:NE2	2.87	0.41
1:AE:147:ALA:C	1:AE:149:SER:H	2.28	0.41
1:AG:115:THR:HG23	1:AG:133:LEU:N	2.25	0.41
1:AG:128:VAL:HG13	1:AG:128:VAL:O	2.19	0.41
1:AG:184:TYR:CE2	2:CG:139:ALA:CB	3.03	0.41
1:AG:219:TYR:CE2	3:DG:39:ARG:HD2	2.55	0.41
1:AH:128:VAL:O	1:AH:128:VAL:HG13	2.19	0.41
1:AI:107:PHE:CE1	1:AI:196:LEU:HB2	2.55	0.41
1:AI:235:THR:HB	1:AI:236:ARG:H	1.65	0.41
1:AK:93:THR:O	1:AK:95:SER:N	2.53	0.41
1:AK:184:TYR:CE2	2:CK:139:ALA:CB	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:48:LEU:O	1:AL:131:GLN:HG2	2.20	0.41
1:AL:115:THR:HG23	1:AL:133:LEU:N	2.25	0.41
1:AL:168:PRO:HB3	2:CL:180:PRO:HB3	2.03	0.41
1:AL:175:GLY:N	1:AL:183:THR:O	2.53	0.41
1:AM:239:PHE:CD2	3:DM:226:GLN:NE2	2.87	0.41
1:AN:219:TYR:CE2	3:DN:39:ARG:HD2	2.55	0.41
1:AP:6:GLU:O	2:CP:162:LEU:N	2.53	0.41
1:AP:48:LEU:HA	1:AP:198:THR:OG1	2.20	0.41
1:AP:172:ASN:OD1	1:AP:184:TYR:OH	2.27	0.41
1:AQ:48:LEU:O	1:AQ:131:GLN:HG2	2.20	0.41
1:AR:184:TYR:HE2	2:CR:139:ALA:HB3	1.84	0.41
1:AR:184:TYR:CE2	2:CR:139:ALA:CB	3.03	0.41
1:AT:140:PRO:HB3	3:DU:25:LEU:HB3	2.03	0.41
1:AU:48:LEU:O	1:AU:131:GLN:HG2	2.21	0.41
1:AU:74:THR:O	1:AU:74:THR:HG22	2.19	0.41
1:AV:43:LEU:N	1:AV:43:LEU:CD2	2.74	0.41
1:AX:184:TYR:CE2	2:CY:139:ALA:CB	3.03	0.41
1:AY:20:SER:HA	1:AY:21:PRO:HD3	1.92	0.41
1:AY:48:LEU:O	1:AY:131:GLN:HG2	2.20	0.41
1:AZ:41:GLU:O	1:AZ:42:THR:HB	2.19	0.41
1:AZ:48:LEU:O	1:AZ:131:GLN:HG2	2.20	0.41
1:AZ:112:PRO:CG	3:D1:223:PRO:HD3	2.50	0.41
1:Aa:170:PHE:HD2	1:Aa:222:ARG:NH1	2.17	0.41
1:Aa:208:TYR:CE2	1:An:103:TRP:CZ2	3.06	0.41
1:Ab:147:ALA:C	1:Ab:149:SER:H	2.28	0.41
1:Ac:138:MET:HE1	1:Ad:71:LEU:HD11	2.02	0.41
1:Ad:49:THR:CG2	1:Ad:50:GLY:N	2.83	0.41
1:Ae:65:GLN:HG2	1:Ae:70:ARG:HD2	2.01	0.41
1:Ae:138:MET:HE1	1:Af:71:LEU:HD11	2.02	0.41
1:Af:140:PRO:HB3	3:Dh:25:LEU:HB3	2.03	0.41
1:Ag:6:GLU:O	2:Ci:162:LEU:N	2.53	0.41
1:Ai:219:TYR:HA	3:Dk:39:ARG:HA	2.02	0.41
1:Aj:41:GLU:O	1:Aj:42:THR:HB	2.19	0.41
1:Ak:88:PHE:HE1	1:Ak:205:GLY:CA	2.33	0.41
1:Am:147:ALA:C	1:Am:149:SER:H	2.28	0.41
1:Am:219:TYR:CE2	3:Do:39:ARG:HD2	2.55	0.41
1:An:48:LEU:O	1:An:131:GLN:HG2	2.20	0.41
1:An:168:PRO:HB3	2:Cb:180:PRO:HB3	2.03	0.41
1:BA:6:GLU:O	2:Cp:162:LEU:N	2.53	0.41
1:BA:43:LEU:HD23	1:BA:43:LEU:H	1.81	0.41
1:BA:49:THR:CG2	1:BA:50:GLY:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:103:TRP:CZ2	1:BB:208:TYR:CE2	3.06	0.41
1:BA:112:PRO:CG	3:Dq:223:PRO:HD3	2.50	0.41
1:BA:121:LEU:HD21	1:BB:206:GLY:CA	2.47	0.41
1:BA:132:GLN:OE1	1:BB:66:LEU:HD21	2.20	0.41
1:BB:93:THR:O	1:BB:95:SER:N	2.53	0.41
1:BB:187:LEU:HD13	1:BB:187:LEU:C	2.44	0.41
1:BC:132:GLN:OE1	1:BD:66:LEU:HD21	2.20	0.41
1:BC:164:TRP:HE1	1:BC:187:LEU:CD1	2.28	0.41
1:BD:48:LEU:O	1:BD:131:GLN:HG2	2.20	0.41
1:BD:62:SER:HB2	1:BD:73:ASN:ND2	2.27	0.41
1:BD:168:PRO:HB3	2:Cs:180:PRO:HB3	2.03	0.41
1:BD:175:GLY:N	1:BD:183:THR:O	2.52	0.41
1:BD:184:TYR:CE2	2:Cs:139:ALA:CB	3.03	0.41
1:BE:79:PHE:CE2	1:BE:160:TYR:CD2	3.08	0.41
1:BF:41:GLU:O	1:BF:42:THR:HB	2.19	0.41
1:BF:140:PRO:HB3	3:EB:25:LEU:HB3	2.03	0.41
1:BF:175:GLY:N	1:BF:183:THR:O	2.52	0.41
1:BH:132:GLN:OE1	1:BI:66:LEU:HD21	2.20	0.41
1:BI:48:LEU:O	1:BI:131:GLN:HG2	2.20	0.41
2:C1:33:THR:HG21	2:C1:160:HIS:O	2.20	0.41
2:C1:103:LEU:O	2:C1:223:ASN:ND2	2.49	0.41
2:C2:65:LYS:CB	3:Dh:135:ARG:HH21	2.29	0.41
2:C3:33:THR:HG21	2:C3:160:HIS:O	2.20	0.41
2:C4:135:THR:HB	2:C4:139:ALA:CB	2.50	0.41
2:C8:153:GLN:HE22	3:D8:55:SER:CB	2.33	0.41
2:C9:33:THR:HG21	2:C9:160:HIS:O	2.20	0.41
2:C9:57:THR:O	2:C9:58:LEU:CB	2.66	0.41
2:C9:58:LEU:HB3	2:C9:59:SER:H	1.65	0.41
2:CA:209:VAL:O	2:CA:209:VAL:CG1	2.65	0.41
2:CC:103:LEU:HD12	2:CC:223:ASN:HB2	2.03	0.41
2:CC:153:GLN:HE22	3:DC:55:SER:N	2.19	0.41
2:CD:57:THR:O	2:CD:58:LEU:CB	2.66	0.41
2:CG:33:THR:HG21	2:CG:160:HIS:O	2.20	0.41
2:CI:115:ASN:C	3:DX:119:LYS:NZ	2.77	0.41
2:CI:117:SER:HB3	3:DX:192:THR:CG2	2.48	0.41
2:CI:166:ARG:HD3	3:DI:110:PHE:O	2.20	0.41
2:CK:135:THR:HB	2:CK:139:ALA:CB	2.50	0.41
2:CM:33:THR:HG21	2:CM:160:HIS:O	2.20	0.41
2:CM:103:LEU:HD12	2:CM:223:ASN:HB2	2.02	0.41
2:CM:153:GLN:HE22	3:DM:55:SER:CB	2.33	0.41
2:CN:88:LEU:C	2:CN:90:LYS:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CO:56:PRO:C	2:CO:57:THR:O	2.59	0.41
2:CP:103:LEU:HD12	2:CP:223:ASN:HB2	2.02	0.41
2:CQ:26:SER:C	3:Dp:147:ASP:HB3	2.45	0.41
2:CQ:103:LEU:HD21	3:DR:163:PRO:HD3	2.01	0.41
2:CR:88:LEU:C	2:CR:90:LYS:N	2.79	0.41
2:CT:103:LEU:HD12	2:CT:223:ASN:HB2	2.02	0.41
2:CT:135:THR:HB	2:CT:139:ALA:CB	2.50	0.41
2:CU:56:PRO:C	2:CU:57:THR:O	2.59	0.41
2:CV:103:LEU:HD21	3:DW:163:PRO:HD3	2.01	0.41
2:CX:28:GLY:O	2:CX:168:ASN:HB2	2.21	0.41
2:CX:33:THR:HG21	2:CX:160:HIS:O	2.20	0.41
2:CX:103:LEU:HD12	2:CX:223:ASN:HB2	2.02	0.41
2:CY:28:GLY:O	2:CY:168:ASN:HB2	2.21	0.41
2:CY:129:VAL:HA	2:CY:130:PRO:HD3	1.78	0.41
2:CZ:88:LEU:C	2:CZ:90:LYS:N	2.79	0.41
2:CZ:103:LEU:HD12	2:CZ:223:ASN:HB2	2.02	0.41
2:CZ:209:VAL:N	2:CZ:210:PRO:CD	2.68	0.41
2:Ca:28:GLY:O	2:Ca:168:ASN:HB2	2.21	0.41
2:Ca:134:HIS:HB3	2:Ca:135:THR:H	1.46	0.41
2:Cb:153:GLN:HE22	3:Db:55:SER:N	2.19	0.41
2:Cf:209:VAL:O	2:Cf:209:VAL:CG1	2.65	0.41
2:Cg:88:LEU:C	2:Cg:90:LYS:N	2.79	0.41
2:Cj:135:THR:HB	2:Cj:139:ALA:CB	2.50	0.41
2:Ck:103:LEU:HD12	2:Ck:223:ASN:HB2	2.02	0.41
2:Cn:28:GLY:O	2:Cn:168:ASN:HB2	2.21	0.41
2:Cp:68:GLU:O	2:Cp:69:TRP:C	2.63	0.41
2:Cp:135:THR:HB	2:Cp:139:ALA:CB	2.50	0.41
2:Cq:83:LEU:HA	2:Cq:84:PRO:HA	1.60	0.41
2:Cu:166:ARG:HD3	3:EB:110:PHE:O	2.20	0.41
2:Cx:28:GLY:O	2:Cx:168:ASN:HB2	2.20	0.41
2:Cx:69:TRP:HZ2	2:Cx:198:ILE:HG23	1.85	0.41
3:D2:54:CYS:SG	3:D2:208:VAL:HG21	2.61	0.41
3:D4:13:SER:O	3:D5:9:PRO:HD3	2.20	0.41
3:D6:119:LYS:HG2	3:D6:147:ASP:CG	2.45	0.41
3:D7:152:SER:O	3:D7:153:ALA:HB2	2.21	0.41
3:DB:113:ALA:HB2	3:DB:199:ASN:CG	2.46	0.41
3:DC:64:VAL:HG13	3:DC:120:PHE:HE1	1.86	0.41
3:DD:120:PHE:HD2	3:DD:146:TRP:CZ2	2.38	0.41
3:DE:79:SER:O	3:DE:81:SER:N	2.51	0.41
3:DE:119:LYS:HG2	3:DE:147:ASP:CG	2.45	0.41
3:DF:13:SER:O	3:DG:9:PRO:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:64:VAL:HG13	3:DF:120:PHE:HE1	1.86	0.41
3:DG:54:CYS:SG	3:DG:208:VAL:HG21	2.61	0.41
3:DG:119:LYS:HG2	3:DG:147:ASP:CG	2.45	0.41
3:DH:84:GLU:C	3:DH:86:HIS:H	2.28	0.41
3:DI:53:PHE:N	3:DI:53:PHE:CD1	2.88	0.41
3:DI:84:GLU:C	3:DI:86:HIS:H	2.28	0.41
3:DI:119:LYS:O	3:DI:120:PHE:CB	2.67	0.41
3:DJ:98:ALA:HB2	3:DJ:220:VAL:HG21	2.01	0.41
3:DJ:152:SER:O	3:DJ:153:ALA:HB2	2.21	0.41
3:DK:8:VAL:CG1	3:DK:9:PRO:HD2	2.39	0.41
3:DK:115:ALA:CB	3:DK:194:THR:OG1	2.67	0.41
3:DO:113:ALA:HB2	3:DO:199:ASN:CG	2.46	0.41
3:DO:119:LYS:HG2	3:DO:147:ASP:CG	2.45	0.41
3:DR:120:PHE:HD2	3:DR:146:TRP:CZ2	2.38	0.41
3:DU:54:CYS:SG	3:DU:208:VAL:HG21	2.61	0.41
3:DU:84:GLU:C	3:DU:86:HIS:H	2.28	0.41
3:DV:54:CYS:SG	3:DV:208:VAL:HG21	2.61	0.41
3:DV:120:PHE:HD2	3:DV:146:TRP:CZ2	2.38	0.41
3:DV:152:SER:O	3:DV:153:ALA:HB2	2.21	0.41
3:DW:13:SER:O	3:DX:9:PRO:HD3	2.20	0.41
3:DW:119:LYS:HG2	3:DW:147:ASP:CG	2.45	0.41
3:Df:64:VAL:HG13	3:Df:120:PHE:HE1	1.86	0.41
3:Dj:152:SER:O	3:Dj:153:ALA:HB2	2.21	0.41
3:Dm:120:PHE:HD2	3:Dm:146:TRP:CZ2	2.38	0.41
3:Dn:121:LEU:C	3:Dn:121:LEU:CD2	2.89	0.41
3:Do:75:GLN:NE2	3:Do:184:GLN:OE1	2.49	0.41
3:Dq:64:VAL:HG13	3:Dq:120:PHE:HE1	1.86	0.41
3:Dq:100:TYR:HA	3:Dq:215:SER:O	2.21	0.41
3:EB:113:ALA:HB2	3:EB:199:ASN:CG	2.46	0.41
3:ED:84:GLU:C	3:ED:86:HIS:H	2.28	0.41
3:EE:101:ARG:HH12	3:EE:165:ASP:HB3	1.84	0.41
4:F0:31:GLN:HE21	4:F0:31:GLN:HA	1.85	0.41
4:F6:21:ILE:HG22	4:F6:21:ILE:O	2.20	0.41
4:F9:21:ILE:O	4:F9:21:ILE:HG22	2.20	0.41
4:FI:31:GLN:HA	4:FI:31:GLN:HE21	1.85	0.41
4:FU:29:GLN:HB2	4:FU:30:TYR:HD1	1.84	0.41
4:FV:29:GLN:HB2	4:FV:30:TYR:HD1	1.84	0.41
4:Fc:32:ASN:HB3	4:Fc:33:SER:H	1.58	0.41
4:Fe:21:ILE:O	4:Fe:21:ILE:HG22	2.20	0.41
4:Fe:31:GLN:HE21	4:Fe:31:GLN:HA	1.85	0.41
4:Fg:31:GLN:HE21	4:Fg:31:GLN:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Fj:21:ILE:HG22	4:Fj:21:ILE:O	2.20	0.41
4:Fv:21:ILE:HG22	4:Fv:21:ILE:O	2.20	0.41
1:A1:6:GLU:O	2:C2:162:LEU:N	2.53	0.41
1:A1:65:GLN:HG2	1:A1:70:ARG:HD2	2.01	0.41
1:A2:38:PHE:CE2	1:A2:68:TRP:HB2	2.56	0.41
1:A2:87:GLN:HA	1:A2:153:ALA:HB2	2.02	0.41
1:A2:219:TYR:HA	3:D3:39:ARG:HA	2.02	0.41
1:A3:66:LEU:HD21	1:A7:132:GLN:OE1	2.20	0.41
1:A3:138:MET:HE1	1:A4:71:LEU:HD11	2.02	0.41
1:A3:224:ILE:HD11	3:D4:89:TYR:CE1	2.55	0.41
1:A3:239:PHE:CD2	3:D4:226:GLN:NE2	2.87	0.41
1:A4:87:GLN:HA	1:A4:153:ALA:HB2	2.02	0.41
1:A5:219:TYR:CE2	3:D6:39:ARG:HD2	2.55	0.41
1:A5:224:ILE:HD11	3:D6:89:TYR:CE1	2.55	0.41
1:A6:172:ASN:OD1	1:A6:184:TYR:OH	2.27	0.41
1:A6:224:ILE:HD11	3:D7:89:TYR:CE1	2.55	0.41
1:A8:87:GLN:HA	1:A8:153:ALA:HB2	2.02	0.41
1:A8:175:GLY:N	1:A8:183:THR:O	2.52	0.41
1:A8:206:GLY:CA	1:Ab:121:LEU:HD21	2.47	0.41
1:AB:41:GLU:O	1:AB:42:THR:HB	2.19	0.41
1:AB:87:GLN:HA	1:AB:153:ALA:HB2	2.02	0.41
1:AB:219:TYR:CE2	3:DB:39:ARG:HD2	2.55	0.41
1:AC:38:PHE:CE2	1:AC:68:TRP:HB2	2.56	0.41
1:AC:219:TYR:HD2	3:DC:39:ARG:HB2	1.79	0.41
1:AD:48:LEU:HA	1:AD:198:THR:OG1	2.20	0.41
1:AD:93:THR:O	1:AD:95:SER:N	2.53	0.41
1:AE:174:TRP:CD1	1:AE:184:TYR:HA	2.56	0.41
1:AG:48:LEU:HA	1:AG:198:THR:OG1	2.20	0.41
1:AG:65:GLN:HG2	1:AG:70:ARG:HD2	2.01	0.41
1:AI:140:PRO:HB3	3:DI:25:LEU:HB3	2.03	0.41
1:AK:132:GLN:OE1	1:AL:66:LEU:HD21	2.20	0.41
1:AL:6:GLU:O	2:CL:162:LEU:N	2.53	0.41
1:AM:42:THR:O	1:AM:42:THR:CG2	2.69	0.41
1:AM:174:TRP:HB2	2:CM:188:LEU:CD2	2.44	0.41
1:AN:62:SER:HB2	1:AN:73:ASN:ND2	2.27	0.41
1:AO:147:ALA:C	1:AO:149:SER:H	2.28	0.41
1:AO:175:GLY:N	1:AO:183:THR:O	2.53	0.41
1:AP:48:LEU:O	1:AP:131:GLN:HG2	2.20	0.41
1:AP:132:GLN:OE1	1:AQ:66:LEU:HD21	2.20	0.41
1:AQ:6:GLU:O	2:CQ:162:LEU:N	2.53	0.41
1:AQ:170:PHE:HD2	1:AQ:222:ARG:NH1	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:140:PRO:HB3	3:DR:25:LEU:HB3	2.03	0.41
1:AS:49:THR:CG2	1:AS:50:GLY:N	2.83	0.41
1:AS:188:PRO:HG3	3:DP:176:VAL:CG1	2.50	0.41
1:AS:219:TYR:HA	3:DT:39:ARG:HA	2.02	0.41
1:AU:143:VAL:H	3:DW:14:PHE:CB	2.28	0.41
1:AV:103:TRP:CZ2	1:AW:208:TYR:CE2	3.06	0.41
1:AV:106:TRP:CZ2	1:AV:158:VAL:HG13	2.54	0.41
1:AW:107:PHE:CE1	1:AW:196:LEU:HB2	2.55	0.41
1:AW:132:GLN:OE1	1:AX:66:LEU:HD21	2.20	0.41
1:AX:107:PHE:CE1	1:AX:196:LEU:HB2	2.55	0.41
1:AY:6:GLU:O	2:CZ:162:LEU:N	2.53	0.41
1:AY:42:THR:O	1:AY:42:THR:CG2	2.69	0.41
1:AY:128:VAL:O	1:AY:128:VAL:HG13	2.19	0.41
1:AY:140:PRO:HB3	3:DZ:25:LEU:HB3	2.03	0.41
1:AZ:6:GLU:O	2:C0:162:LEU:N	2.53	0.41
1:Ab:224:ILE:HD11	3:Dd:89:TYR:CE1	2.55	0.41
1:Ac:48:LEU:HA	1:Ac:198:THR:OG1	2.20	0.41
1:Ac:107:PHE:CE1	1:Ac:196:LEU:HB2	2.55	0.41
1:Ac:160:TYR:OH	1:Ac:167:VAL:HG23	2.21	0.41
1:Ad:74:THR:O	1:Ad:74:THR:HG22	2.19	0.41
1:Ad:224:ILE:HD11	3:Df:89:TYR:CE1	2.55	0.41
1:Ae:87:GLN:HA	1:Ae:153:ALA:HB2	2.02	0.41
1:Ae:140:PRO:HB3	3:Dg:25:LEU:HB3	2.03	0.41
1:Ae:184:TYR:CE2	2:Cg:139:ALA:CB	3.03	0.41
1:Ae:219:TYR:HA	3:Dg:39:ARG:HA	2.02	0.41
1:Ae:239:PHE:CD2	3:Dg:226:GLN:NE2	2.87	0.41
1:Ag:160:TYR:OH	1:Ag:167:VAL:HG23	2.21	0.41
1:Ah:43:LEU:HD23	1:Ah:43:LEU:H	1.81	0.41
1:Ah:48:LEU:HA	1:Ah:198:THR:OG1	2.20	0.41
1:Ah:168:PRO:HB3	2:Cj:180:PRO:HB3	2.03	0.41
1:Ah:188:PRO:HG3	3:Dk:176:VAL:CG1	2.50	0.41
1:Ai:48:LEU:O	1:Ai:131:GLN:HG2	2.20	0.41
1:Ai:128:VAL:O	1:Ai:128:VAL:HG13	2.19	0.41
1:Ai:224:ILE:HA	1:Ai:225:PRO:HD2	1.86	0.41
1:Aj:175:GLY:N	1:Aj:183:THR:O	2.52	0.41
1:Aj:184:TYR:HE2	2:Cl:139:ALA:HB3	1.84	0.41
1:Aj:188:PRO:HG3	3:Dm:176:VAL:CG1	2.50	0.41
1:Ak:110:GLY:H	1:Al:242:ASN:ND2	2.12	0.41
1:Ak:138:MET:HE1	1:Al:71:LEU:HD11	2.03	0.41
1:Ak:168:PRO:HB3	2:Cm:180:PRO:HB3	2.03	0.41
1:Al:48:LEU:O	1:Al:131:GLN:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Al:49:THR:CG2	1:Al:50:GLY:N	2.83	0.41
1:Am:38:PHE:CE2	1:Am:68:TRP:HB2	2.56	0.41
1:Am:71:LEU:HD11	1:BD:138:MET:HE1	2.02	0.41
1:An:87:GLN:HA	1:An:153:ALA:HB2	2.02	0.41
1:BB:188:PRO:HG3	3:Dr:176:VAL:CG1	2.50	0.41
1:BC:48:LEU:O	1:BC:131:GLN:HG2	2.20	0.41
1:BC:48:LEU:HA	1:BC:198:THR:OG1	2.20	0.41
1:BD:49:THR:HG22	1:BD:50:GLY:H	1.82	0.41
1:BD:188:PRO:HG3	3:Do:176:VAL:CG1	2.50	0.41
1:BE:235:THR:HB	1:BE:236:ARG:H	1.65	0.41
1:BE:243:ILE:H	1:BE:243:ILE:HG13	1.69	0.41
1:BF:48:LEU:O	1:BF:131:GLN:HG2	2.20	0.41
1:BF:224:ILE:HD11	3:EB:89:TYR:CE1	2.55	0.41
1:BG:38:PHE:CE2	1:BG:68:TRP:HB2	2.56	0.41
1:BH:79:PHE:CE2	1:BH:160:TYR:CD2	3.08	0.41
1:BH:174:TRP:CD1	1:BH:184:TYR:HA	2.56	0.41
1:BI:62:SER:HB2	1:BI:73:ASN:ND2	2.27	0.41
1:BI:235:THR:HB	1:BI:236:ARG:H	1.65	0.41
2:C0:42:ARG:HA	2:C0:43:PRO:HD2	1.64	0.41
2:C0:134:HIS:HB3	2:C0:135:THR:H	1.47	0.41
2:C1:135:THR:HB	2:C1:139:ALA:CB	2.50	0.41
2:C3:56:PRO:C	2:C3:57:THR:O	2.59	0.41
2:C3:153:GLN:HE22	3:D3:55:SER:CB	2.33	0.41
2:C4:26:SER:C	3:EC:147:ASP:HB3	2.45	0.41
2:C5:153:GLN:HE22	3:D5:55:SER:CB	2.33	0.41
2:C6:26:SER:C	3:DE:147:ASP:HB3	2.45	0.41
2:C7:26:SER:C	3:Dm:147:ASP:HB3	2.45	0.41
2:C9:88:LEU:C	2:C9:90:LYS:N	2.79	0.41
2:C9:153:GLN:HE22	3:D9:55:SER:CB	2.33	0.41
2:C9:166:ARG:HD3	3:D9:110:PHE:O	2.20	0.41
2:CA:49:ASP:HA	2:CA:50:PRO:HD2	1.80	0.41
2:CA:153:GLN:HE22	3:DA:55:SER:CB	2.33	0.41
2:CB:26:SER:C	3:Df:147:ASP:HB3	2.45	0.41
2:CE:42:ARG:HA	2:CE:43:PRO:HD2	1.64	0.41
2:CF:69:TRP:HZ2	2:CF:198:ILE:HG23	1.84	0.41
2:CF:153:GLN:NE2	3:DF:53:PHE:O	2.50	0.41
2:CF:153:GLN:HE22	3:DF:55:SER:CB	2.33	0.41
2:CH:28:GLY:O	2:CH:168:ASN:HB2	2.20	0.41
2:CH:69:TRP:HZ2	2:CH:198:ILE:HG23	1.85	0.41
2:CI:57:THR:O	2:CI:58:LEU:CB	2.66	0.41
2:CI:103:LEU:HD12	2:CI:223:ASN:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:103:LEU:HD21	3:DJ:163:PRO:HD3	2.01	0.41
2:CI:153:GLN:HE22	3:DI:55:SER:CB	2.33	0.41
2:CI:180:PRO:HD2	2:CI:189:HIS:HE1	1.77	0.41
2:CJ:103:LEU:HD12	2:CJ:223:ASN:HB2	2.02	0.41
2:CK:33:THR:HG21	2:CK:160:HIS:O	2.20	0.41
2:CL:20:GLY:CA	2:CL:56:PRO:O	2.67	0.41
2:CM:26:SER:C	3:DI:147:ASP:HB3	2.45	0.41
2:CM:180:PRO:HD2	2:CM:189:HIS:HE1	1.77	0.41
2:CO:20:GLY:CA	2:CO:56:PRO:O	2.67	0.41
2:CQ:58:LEU:HB3	2:CQ:59:SER:H	1.65	0.41
2:CR:103:LEU:O	2:CR:223:ASN:ND2	2.49	0.41
2:CR:117:SER:HB3	3:EE:192:THR:CG2	2.47	0.41
2:CT:68:GLU:O	2:CT:69:TRP:C	2.63	0.41
2:CU:28:GLY:O	2:CU:168:ASN:HB2	2.21	0.41
2:CV:69:TRP:CZ3	2:CV:124:LEU:HD21	2.56	0.41
2:CW:135:THR:HB	2:CW:139:ALA:CB	2.50	0.41
2:CX:153:GLN:HE22	3:DX:55:SER:N	2.19	0.41
2:CX:212:THR:HG23	3:Dr:188:LEU:HD22	1.96	0.41
2:Ca:135:THR:HB	2:Ca:139:ALA:CB	2.50	0.41
2:Cc:26:SER:C	3:ED:147:ASP:HB3	2.45	0.41
2:Cc:65:LYS:CB	3:ED:135:ARG:HH21	2.29	0.41
2:Cc:26:SER:C	3:DC:147:ASP:HB3	2.45	0.41
2:Cf:153:GLN:HE22	3:Df:55:SER:CB	2.33	0.41
2:Cg:103:LEU:HD21	3:Dh:163:PRO:HD3	2.01	0.41
2:Ch:103:LEU:HD12	2:Ch:223:ASN:HB2	2.02	0.41
2:CI:103:LEU:HD12	2:CI:223:ASN:HB2	2.02	0.41
2:Cj:65:LYS:CB	3:DM:135:ARG:HH21	2.29	0.41
2:Ck:33:THR:HG21	2:Ck:160:HIS:O	2.20	0.41
2:Ck:153:GLN:HE22	3:Dk:55:SER:CB	2.33	0.41
2:Cm:42:ARG:HA	2:Cm:43:PRO:HD2	1.64	0.41
2:Cn:20:GLY:CA	2:Cn:56:PRO:O	2.67	0.41
2:Cn:68:GLU:O	2:Cn:69:TRP:C	2.63	0.41
2:Co:28:GLY:O	2:Co:168:ASN:HB2	2.21	0.41
2:Cp:166:ARG:HD3	3:Dp:110:PHE:O	2.20	0.41
2:Cq:207:GLN:HB3	3:DY:196:ILE:HG21	2.01	0.41
2:Cr:65:LYS:CB	3:DI:135:ARG:HH21	2.29	0.41
2:Cr:69:TRP:CZ3	2:Cr:124:LEU:HD21	2.56	0.41
2:Cr:77:HIS:HE1	2:Cr:144:GLU:HG2	1.84	0.41
2:Cr:117:SER:HB3	3:DI:192:THR:CG2	2.48	0.41
2:Cr:153:GLN:HE22	3:Dr:55:SER:CB	2.33	0.41
2:Cs:166:ARG:HD3	3:Ds:110:PHE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ct:57:THR:O	2:Ct:58:LEU:CB	2.66	0.41
2:Ct:153:GLN:HE22	3:EA:55:SER:N	2.19	0.41
2:Cv:153:GLN:HE22	3:EC:55:SER:N	2.19	0.41
2:Cx:68:GLU:O	2:Cx:69:TRP:C	2.63	0.41
2:Cx:88:LEU:C	2:Cx:90:LYS:N	2.79	0.41
2:Cx:135:THR:HB	2:Cx:139:ALA:CB	2.50	0.41
3:D2:53:PHE:N	3:D2:53:PHE:CD1	2.88	0.41
3:D3:103:SER:HB3	3:D3:159:PRO:CA	2.35	0.41
3:D5:13:SER:O	3:D6:9:PRO:HD3	2.20	0.41
3:D5:53:PHE:N	3:D5:53:PHE:CD1	2.88	0.41
3:D5:86:HIS:ND1	3:D5:86:HIS:C	2.77	0.41
3:D6:13:SER:O	3:D7:9:PRO:HD3	2.20	0.41
3:D6:86:HIS:ND1	3:D6:86:HIS:C	2.77	0.41
3:D6:100:TYR:CD2	3:D6:100:TYR:C	2.99	0.41
3:D6:113:ALA:HB2	3:D6:199:ASN:CG	2.46	0.41
3:D6:120:PHE:HD2	3:D6:146:TRP:CZ2	2.38	0.41
3:D7:75:GLN:NE2	3:D7:184:GLN:OE1	2.49	0.41
3:D9:119:LYS:O	3:D9:120:PHE:CB	2.67	0.41
3:D9:120:PHE:HD2	3:D9:146:TRP:CZ2	2.38	0.41
3:DA:9:PRO:HD3	3:DE:13:SER:O	2.20	0.41
3:DA:27:PRO:CB	4:FA:30:TYR:HA	2.51	0.41
3:DB:64:VAL:HG13	3:DB:120:PHE:HE1	1.85	0.41
3:DC:53:PHE:N	3:DC:53:PHE:CD1	2.88	0.41
3:DC:75:GLN:NE2	3:DC:184:GLN:OE1	2.49	0.41
3:DC:113:ALA:HB2	3:DC:199:ASN:CG	2.46	0.41
3:DD:103:SER:HB2	3:DD:159:PRO:HA	1.95	0.41
3:DH:54:CYS:SG	3:DH:208:VAL:HG21	2.61	0.41
3:DJ:175:THR:HG1	3:DJ:178:ASN:CG	2.28	0.41
3:DK:13:SER:O	3:DL:9:PRO:HD3	2.20	0.41
3:DK:152:SER:O	3:DK:153:ALA:HB2	2.21	0.41
3:DL:86:HIS:ND1	3:DL:86:HIS:C	2.77	0.41
3:DM:113:ALA:HB2	3:DM:199:ASN:CG	2.46	0.41
3:DO:98:ALA:HB2	3:DO:220:VAL:HG21	2.01	0.41
3:DO:103:SER:HB3	3:DO:159:PRO:CA	2.35	0.41
3:DP:79:SER:O	3:DP:81:SER:N	2.51	0.41
3:DP:119:LYS:HG2	3:DP:147:ASP:CG	2.45	0.41
3:DP:152:SER:O	3:DP:153:ALA:HB2	2.21	0.41
3:DQ:120:PHE:HD2	3:DQ:146:TRP:CZ2	2.38	0.41
3:DR:152:SER:O	3:DR:153:ALA:HB2	2.21	0.41
3:DS:152:SER:O	3:DS:153:ALA:HB2	2.21	0.41
3:DT:64:VAL:HG13	3:DT:120:PHE:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:8:VAL:CG1	3:DU:9:PRO:HD2	2.40	0.41
3:DU:115:ALA:CB	3:DU:194:THR:OG1	2.67	0.41
3:DV:75:GLN:NE2	3:DV:184:GLN:OE1	2.49	0.41
3:DY:64:VAL:HG13	3:DY:120:PHE:HE1	1.86	0.41
3:DY:103:SER:OG	3:DY:213:ASP:OD2	2.39	0.41
3:Da:53:PHE:CD1	3:Da:53:PHE:N	2.88	0.41
3:Da:120:PHE:HD2	3:Da:146:TRP:CZ2	2.38	0.41
3:Dd:113:ALA:HB2	3:Dd:199:ASN:CG	2.46	0.41
3:Df:120:PHE:HD2	3:Df:146:TRP:CZ2	2.38	0.41
3:Dg:54:CYS:SG	3:Dg:208:VAL:HG21	2.61	0.41
3:Di:53:PHE:N	3:Di:53:PHE:CD1	2.88	0.41
3:Di:64:VAL:HG13	3:Di:120:PHE:HE1	1.85	0.41
3:Di:100:TYR:CD1	3:Di:100:TYR:C	2.99	0.41
3:Di:120:PHE:HD2	3:Di:146:TRP:CZ2	2.38	0.41
3:Dj:175:THR:HG1	3:Dj:178:ASN:CG	2.28	0.41
3:Dk:113:ALA:HB2	3:Dk:199:ASN:CG	2.46	0.41
3:Dk:119:LYS:HG2	3:Dk:147:ASP:CG	2.45	0.41
3:Dl:13:SER:O	3:Dm:9:PRO:HD3	2.20	0.41
3:Dm:175:THR:HG1	3:Dm:178:ASN:CG	2.28	0.41
3:Dn:152:SER:O	3:Dn:153:ALA:HB2	2.21	0.41
3:Do:13:SER:O	3:Dp:9:PRO:HD3	2.20	0.41
3:Do:53:PHE:N	3:Do:53:PHE:CD1	2.88	0.41
3:Do:79:SER:O	3:Do:81:SER:N	2.51	0.41
3:Do:113:ALA:HB2	3:Do:199:ASN:CG	2.46	0.41
3:Dr:64:VAL:HG13	3:Dr:120:PHE:HE1	1.86	0.41
3:Dr:84:GLU:C	3:Dr:86:HIS:H	2.28	0.41
3:Dr:98:ALA:HB2	3:Dr:220:VAL:HG21	2.01	0.41
3:Ds:53:PHE:N	3:Ds:53:PHE:CD1	2.88	0.41
3:EA:100:TYR:CD2	3:EA:100:TYR:C	2.99	0.41
3:EB:53:PHE:CD1	3:EB:53:PHE:N	2.88	0.41
3:EC:115:ALA:CB	3:EC:194:THR:OG1	2.67	0.41
3:ED:113:ALA:HB2	3:ED:199:ASN:CG	2.46	0.41
3:ED:121:LEU:C	3:ED:121:LEU:CD2	2.89	0.41
3:EE:79:SER:O	3:EE:81:SER:N	2.51	0.41
4:F7:32:ASN:HB3	4:F7:33:SER:H	1.58	0.41
4:FF:21:ILE:O	4:FF:21:ILE:HG22	2.20	0.41
4:FK:21:ILE:HG22	4:FK:21:ILE:O	2.20	0.41
4:FT:21:ILE:O	4:FT:21:ILE:HG22	2.20	0.41
4:Fp:31:GLN:HE21	4:Fp:31:GLN:HA	1.85	0.41
4:Fq:31:GLN:HE21	4:Fq:31:GLN:HA	1.85	0.41
4:Fr:31:GLN:HE21	4:Fr:31:GLN:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:184:TYR:HE2	2:C1:139:ALA:HB2	1.86	0.41
1:A2:160:TYR:OH	1:A2:167:VAL:HG23	2.21	0.41
1:A2:168:PRO:HB3	2:C3:180:PRO:HB3	2.03	0.41
1:A2:174:TRP:CD1	1:A2:184:TYR:HA	2.56	0.41
1:A2:184:TYR:CE2	2:C3:139:ALA:CB	3.03	0.41
1:A2:224:ILE:HD11	3:D3:89:TYR:CE1	2.55	0.41
1:A5:38:PHE:CD2	1:A5:68:TRP:HB2	2.56	0.41
1:A6:49:THR:CG2	1:A6:50:GLY:N	2.83	0.41
1:A9:174:TRP:HB2	2:Ca:188:LEU:CD2	2.44	0.41
1:AA:41:GLU:O	1:AA:42:THR:HB	2.19	0.41
1:AA:42:THR:O	1:AA:42:THR:CG2	2.69	0.41
1:AB:49:THR:CG2	1:AB:50:GLY:N	2.83	0.41
1:AB:168:PRO:HB3	2:CB:180:PRO:HB3	2.03	0.41
1:AC:188:PRO:HG3	3:DD:176:VAL:CG1	2.50	0.41
1:AC:224:ILE:HD11	3:DC:89:TYR:CE1	2.55	0.41
1:AD:43:LEU:HD23	1:AD:43:LEU:H	1.81	0.41
1:AE:168:PRO:HB3	2:CE:180:PRO:HB3	2.03	0.41
1:AE:234:LYS:HA	1:AE:234:LYS:HD3	1.89	0.41
1:AF:220:CYS:HA	1:AF:221:PRO:HD2	1.82	0.41
1:AG:49:THR:HG22	1:AG:50:GLY:H	1.82	0.41
1:AG:62:SER:HB2	1:AG:73:ASN:ND2	2.27	0.41
1:AG:112:PRO:CG	3:DH:223:PRO:HD3	2.50	0.41
1:AG:140:PRO:HB3	3:DG:25:LEU:HB3	2.03	0.41
1:AG:175:GLY:N	1:AG:183:THR:O	2.53	0.41
1:AH:38:PHE:CD2	1:AH:68:TRP:HB2	2.56	0.41
1:AH:112:PRO:CG	3:DI:223:PRO:HD3	2.50	0.41
1:AI:6:GLU:O	2:CI:162:LEU:N	2.53	0.41
1:AI:38:PHE:CD2	1:AI:68:TRP:HB2	2.56	0.41
1:AI:65:GLN:HG2	1:AI:70:ARG:HD2	2.01	0.41
1:AI:168:PRO:HB3	2:CI:180:PRO:HB3	2.03	0.41
1:AJ:74:THR:O	1:AJ:74:THR:HG22	2.19	0.41
1:AK:184:TYR:HE2	2:CK:139:ALA:HB2	1.86	0.41
1:AK:219:TYR:HD2	3:DK:39:ARG:HB2	1.79	0.41
1:AK:224:ILE:HD11	3:DK:89:TYR:CE1	2.55	0.41
1:AL:42:THR:O	1:AL:42:THR:CG2	2.69	0.41
1:AL:132:GLN:OE1	1:AM:66:LEU:HD21	2.20	0.41
1:AM:38:PHE:CE2	1:AM:68:TRP:HB2	2.56	0.41
1:AM:49:THR:CG2	1:AM:50:GLY:N	2.83	0.41
1:AN:75:CYS:CB	1:AN:218:MET:SD	3.03	0.41
1:AO:6:GLU:O	2:CO:162:LEU:N	2.53	0.41
1:AO:38:PHE:CE2	1:AO:68:TRP:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:87:GLN:HA	1:AO:153:ALA:HB2	2.02	0.41
1:AQ:38:PHE:CE2	1:AQ:68:TRP:HB2	2.56	0.41
1:AQ:88:PHE:CA	1:AQ:207:CYS:HA	2.48	0.41
1:AQ:168:PRO:HB3	2:CQ:180:PRO:HB3	2.03	0.41
1:AR:42:THR:O	1:AR:42:THR:CG2	2.69	0.41
1:AR:48:LEU:HA	1:AR:198:THR:OG1	2.20	0.41
1:AS:224:ILE:HD11	3:DT:89:TYR:CE1	2.55	0.41
1:AS:235:THR:HB	1:AS:236:ARG:H	1.65	0.41
1:AT:48:LEU:O	1:AT:131:GLN:HG2	2.21	0.41
1:AT:93:THR:O	1:AT:95:SER:N	2.53	0.41
1:AU:48:LEU:HA	1:AU:198:THR:OG1	2.20	0.41
1:AU:139:SER:HA	1:AU:140:PRO:HD3	1.62	0.41
1:AV:128:VAL:O	1:AV:128:VAL:HG13	2.19	0.41
1:AW:146:ILE:HD13	1:AW:146:ILE:HG21	1.74	0.41
1:AW:160:TYR:OH	1:AW:167:VAL:HG23	2.21	0.41
1:AW:174:TRP:CD1	1:AW:184:TYR:HA	2.56	0.41
1:AW:239:PHE:CD2	3:DX:226:GLN:NE2	2.87	0.41
1:AX:42:THR:O	1:AX:42:THR:CG2	2.69	0.41
1:AX:87:GLN:HA	1:AX:153:ALA:HB2	2.02	0.41
1:AY:48:LEU:HA	1:AY:198:THR:OG1	2.20	0.41
1:AY:170:PHE:HD2	1:AY:222:ARG:NH1	2.18	0.41
1:AZ:38:PHE:CD2	1:AZ:68:TRP:HB2	2.56	0.41
1:AZ:79:PHE:CE2	1:AZ:160:TYR:CD2	3.08	0.41
1:Aa:49:THR:CG2	1:Aa:50:GLY:N	2.83	0.41
1:Aa:88:PHE:CA	1:Aa:207:CYS:HA	2.48	0.41
1:Ab:6:GLU:O	2:Cd:162:LEU:N	2.53	0.41
1:Ac:93:THR:O	1:Ac:95:SER:N	2.53	0.41
1:Ac:168:PRO:HB3	2:Ce:180:PRO:HB3	2.03	0.41
1:Ad:48:LEU:O	1:Ad:131:GLN:HG2	2.20	0.41
1:Ad:48:LEU:HA	1:Ad:198:THR:OG1	2.20	0.41
1:Ad:138:MET:HE1	1:Ae:71:LEU:HD11	2.03	0.41
1:Af:41:GLU:O	1:Af:42:THR:HB	2.20	0.41
1:Af:48:LEU:O	1:Af:131:GLN:HG2	2.20	0.41
1:Af:49:THR:CG2	1:Af:50:GLY:N	2.83	0.41
1:Af:79:PHE:CE2	1:Af:160:TYR:CD2	3.08	0.41
1:Af:168:PRO:HB3	2:Ch:180:PRO:HB3	2.03	0.41
1:Ag:87:GLN:HA	1:Ag:153:ALA:HB2	2.02	0.41
1:Ag:174:TRP:CD1	1:Ag:184:TYR:HA	2.56	0.41
1:Ag:219:TYR:CE2	3:Di:39:ARG:HD2	2.55	0.41
1:Ag:224:ILE:HD11	3:Di:89:TYR:CE1	2.55	0.41
1:Ah:79:PHE:CE2	1:Ah:160:TYR:CD2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:38:PHE:CE2	1:Ai:68:TRP:HB2	2.56	0.41
1:Ai:103:TRP:CZ2	1:Aj:208:TYR:CE2	3.06	0.41
1:Aj:219:TYR:CE2	3:Dl:39:ARG:HD2	2.55	0.41
1:Ak:38:PHE:CD2	1:Ak:68:TRP:HB2	2.56	0.41
1:Ak:43:LEU:HD23	1:Ak:43:LEU:H	1.81	0.41
1:Ak:79:PHE:CE2	1:Ak:160:TYR:CD2	3.08	0.41
1:Al:160:TYR:OH	1:Al:167:VAL:HG23	2.21	0.41
1:An:79:PHE:CE2	1:An:160:TYR:CD2	3.08	0.41
1:An:147:ALA:C	1:An:149:SER:H	2.28	0.41
1:An:175:GLY:N	1:An:183:THR:O	2.52	0.41
1:An:219:TYR:CE2	3:Db:39:ARG:HD2	2.55	0.41
1:Ao:41:GLU:O	1:Ao:42:THR:HB	2.19	0.41
1:Ao:147:ALA:C	1:Ao:149:SER:H	2.28	0.41
1:Ao:225:PRO:HA	1:Ao:226:PRO:HD2	1.88	0.41
1:Ao:234:LYS:HA	1:Ao:234:LYS:HD3	1.89	0.41
1:BA:92:THR:HB	1:BA:93:THR:H	1.62	0.41
1:BA:140:PRO:HB3	3:Dp:25:LEU:HB3	2.03	0.41
1:BB:88:PHE:HE1	1:BB:205:GLY:CA	2.33	0.41
1:BB:160:TYR:OH	1:BB:167:VAL:HG23	2.21	0.41
1:BB:168:PRO:HB3	2:Cq:180:PRO:HB3	2.03	0.41
1:BB:184:TYR:CE2	2:Cq:139:ALA:CB	3.03	0.41
1:BC:140:PRO:HB3	3:Dr:25:LEU:HB3	2.03	0.41
1:BD:140:PRO:HB3	3:Ds:25:LEU:HB3	2.03	0.41
1:BE:49:THR:CG2	1:BE:50:GLY:N	2.83	0.41
1:BE:74:THR:O	1:BE:74:THR:HG22	2.19	0.41
1:BE:174:TRP:CD1	1:BE:184:TYR:HA	2.56	0.41
1:BF:38:PHE:CD2	1:BF:68:TRP:HB2	2.56	0.41
1:BF:42:THR:O	1:BF:42:THR:CG2	2.69	0.41
1:BG:79:PHE:CE2	1:BG:160:TYR:CD2	3.08	0.41
1:BI:6:GLU:O	2:Cx:162:LEU:N	2.53	0.41
1:BI:174:TRP:CD1	1:BI:184:TYR:HA	2.56	0.41
2:C1:20:GLY:CA	2:C1:56:PRO:O	2.67	0.41
2:C1:88:LEU:C	2:C1:90:LYS:N	2.79	0.41
2:C1:115:ASN:HD22	3:DO:190:ALA:C	2.17	0.41
2:C5:46:THR:CG2	3:D6:165:ASP:HA	2.37	0.41
2:C8:103:LEU:O	2:C8:223:ASN:ND2	2.49	0.41
2:C9:103:LEU:HD12	2:C9:223:ASN:HB2	2.02	0.41
2:CA:57:THR:O	2:CA:58:LEU:CB	2.66	0.41
2:CA:69:TRP:HZ2	2:CA:198:ILE:HG23	1.85	0.41
2:CD:26:SER:C	3:D7:147:ASP:HB3	2.45	0.41
2:CD:42:ARG:HA	2:CD:43:PRO:HD2	1.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:88:LEU:C	2:CD:90:LYS:N	2.79	0.41
2:CE:20:GLY:CA	2:CE:56:PRO:O	2.67	0.41
2:CF:23:ILE:N	2:CF:23:ILE:CD1	2.81	0.41
2:CF:42:ARG:HA	2:CF:43:PRO:HD2	1.64	0.41
2:CF:68:GLU:O	2:CF:69:TRP:C	2.63	0.41
2:CG:26:SER:C	3:EB:147:ASP:HB3	2.45	0.41
2:CG:153:GLN:HE22	3:DG:55:SER:N	2.19	0.41
2:CH:33:THR:HG21	2:CH:160:HIS:O	2.20	0.41
2:CK:153:GLN:NE2	3:DK:53:PHE:O	2.50	0.41
2:CL:26:SER:C	3:Dk:147:ASP:HB3	2.45	0.41
2:CL:153:GLN:HE22	3:DL:55:SER:CB	2.33	0.41
2:CN:153:GLN:HE22	3:DN:55:SER:N	2.19	0.41
2:CP:88:LEU:C	2:CP:90:LYS:N	2.79	0.41
2:CQ:77:HIS:HE1	2:CQ:144:GLU:HG2	1.84	0.41
2:CS:55:GLY:HA2	2:CS:56:PRO:HD3	1.80	0.41
2:CS:153:GLN:HE22	3:DS:55:SER:N	2.19	0.41
2:CU:58:LEU:HB3	2:CU:59:SER:H	1.65	0.41
2:CU:69:TRP:CZ3	2:CU:124:LEU:HD21	2.56	0.41
2:CW:153:GLN:HE22	3:DW:55:SER:CB	2.33	0.41
2:Ca:68:GLU:O	2:Ca:69:TRP:C	2.63	0.41
2:Cb:216:ALA:HA	2:Cb:217:PRO:HD3	1.78	0.41
2:Cc:69:TRP:CZ3	2:Cc:124:LEU:HD21	2.56	0.41
2:Cc:135:THR:HB	2:Cc:139:ALA:CB	2.50	0.41
2:Cd:103:LEU:HD21	3:D9:163:PRO:HD3	2.01	0.41
2:Ce:153:GLN:HE22	3:De:55:SER:N	2.19	0.41
2:Cg:28:GLY:O	2:Cg:168:ASN:HB2	2.21	0.41
2:Cj:69:TRP:HZ2	2:Cj:198:ILE:HG23	1.85	0.41
2:Cl:69:TRP:CZ3	2:Cl:124:LEU:HD21	2.56	0.41
2:Cl:153:GLN:NE2	3:DI:53:PHE:O	2.50	0.41
2:Co:166:ARG:HD3	3:Do:110:PHE:O	2.20	0.41
2:Cp:26:SER:O	2:Cp:27:GLN:C	2.64	0.41
2:Cp:69:TRP:CZ3	2:Cp:124:LEU:HD21	2.56	0.41
2:Cq:77:HIS:HE1	2:Cq:144:GLU:HG2	1.84	0.41
2:Cq:180:PRO:HD2	2:Cq:189:HIS:HE1	1.76	0.41
2:Cr:135:THR:HB	2:Cr:139:ALA:CB	2.50	0.41
2:Cr:153:GLN:HE22	3:Dr:55:SER:N	2.19	0.41
2:Cs:26:SER:C	3:EA:147:ASP:HB3	2.45	0.41
2:Ct:103:LEU:O	2:Ct:223:ASN:ND2	2.49	0.41
2:Cu:33:THR:HG21	2:Cu:160:HIS:O	2.20	0.41
2:Cv:68:GLU:O	2:Cv:69:TRP:C	2.63	0.41
2:Cw:103:LEU:HD12	2:Cw:223:ASN:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cx:13:ARG:HA	2:Cx:13:ARG:HD3	1.72	0.41
3:D4:100:TYR:HA	3:D4:215:SER:O	2.21	0.41
3:D6:152:SER:O	3:D6:153:ALA:HB2	2.21	0.41
3:D7:64:VAL:HG13	3:D7:120:PHE:HE1	1.86	0.41
3:D7:100:TYR:HA	3:D7:215:SER:O	2.21	0.41
3:D9:36:VAL:HA	3:D9:37:PRO:HD3	1.53	0.41
3:D9:54:CYS:SG	3:D9:208:VAL:HG21	2.61	0.41
3:DA:100:TYR:CD1	3:DA:100:TYR:C	2.99	0.41
3:DD:53:PHE:N	3:DD:53:PHE:CD1	2.88	0.41
3:DD:54:CYS:SG	3:DD:208:VAL:HG21	2.61	0.41
3:DE:120:PHE:HD2	3:DE:146:TRP:CZ2	2.38	0.41
3:DG:84:GLU:C	3:DG:86:HIS:H	2.28	0.41
3:DG:115:ALA:CB	3:DG:194:THR:OG1	2.67	0.41
3:DH:13:SER:O	3:DI:9:PRO:HD3	2.20	0.41
3:DH:27:PRO:CB	4:FH:30:TYR:HA	2.51	0.41
3:DI:120:PHE:HD2	3:DI:146:TRP:CZ2	2.38	0.41
3:DK:9:PRO:HD3	3:DO:13:SER:O	2.20	0.41
3:DK:64:VAL:HG13	3:DK:120:PHE:HE1	1.86	0.41
3:DL:54:CYS:SG	3:DL:208:VAL:HG21	2.61	0.41
3:DL:152:SER:O	3:DL:153:ALA:HB2	2.21	0.41
3:DM:54:CYS:SG	3:DM:208:VAL:HG21	2.61	0.41
3:DM:64:VAL:HG13	3:DM:120:PHE:HE1	1.85	0.41
3:DM:84:GLU:C	3:DM:86:HIS:H	2.28	0.41
3:DM:175:THR:HG1	3:DM:178:ASN:CG	2.28	0.41
3:DP:13:SER:O	3:DQ:9:PRO:HD3	2.19	0.41
3:DP:54:CYS:SG	3:DP:208:VAL:HG21	2.61	0.41
3:DP:86:HIS:ND1	3:DP:86:HIS:C	2.77	0.41
3:DP:113:ALA:HB2	3:DP:199:ASN:CG	2.46	0.41
3:DP:175:THR:HG1	3:DP:178:ASN:CG	2.28	0.41
3:DR:13:SER:O	3:DS:9:PRO:HD3	2.20	0.41
3:DS:75:GLN:NE2	3:DS:184:GLN:OE1	2.49	0.41
3:DW:54:CYS:SG	3:DW:208:VAL:HG21	2.61	0.41
3:DW:79:SER:O	3:DW:81:SER:N	2.51	0.41
3:DW:113:ALA:HB2	3:DW:199:ASN:CG	2.46	0.41
3:DX:120:PHE:HD2	3:DX:146:TRP:CZ2	2.38	0.41
3:DY:119:LYS:HG2	3:DY:147:ASP:CG	2.45	0.41
3:DY:120:PHE:HD2	3:DY:146:TRP:CZ2	2.38	0.41
3:DY:175:THR:HG1	3:DY:178:ASN:CG	2.28	0.41
3:DZ:120:PHE:HD2	3:DZ:146:TRP:CZ2	2.38	0.41
3:DZ:152:SER:O	3:DZ:153:ALA:HB2	2.21	0.41
3:Db:43:PHE:O	3:Db:44:ILE:C	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Db:120:PHE:HD2	3:Db:146:TRP:CZ2	2.38	0.41
3:Dc:54:CYS:SG	3:Dc:208:VAL:HG21	2.61	0.41
3:Dc:175:THR:HG1	3:Dc:178:ASN:CG	2.28	0.41
3:Dd:54:CYS:SG	3:Dd:208:VAL:HG21	2.61	0.41
3:De:54:CYS:SG	3:De:208:VAL:HG21	2.61	0.41
3:De:120:PHE:HD2	3:De:146:TRP:CZ2	2.38	0.41
3:Dg:100:TYR:HA	3:Dg:215:SER:O	2.21	0.41
3:Dg:152:SER:O	3:Dg:153:ALA:HB2	2.21	0.41
3:Dh:53:PHE:CD1	3:Dh:53:PHE:N	2.88	0.41
3:Dh:54:CYS:SG	3:Dh:208:VAL:HG21	2.61	0.41
3:Di:100:TYR:HA	3:Di:215:SER:O	2.21	0.41
3:Di:119:LYS:HG2	3:Di:147:ASP:CG	2.45	0.41
3:Dj:9:PRO:HD3	3:Dn:13:SER:O	2.20	0.41
3:Dj:120:PHE:HD2	3:Dj:146:TRP:CZ2	2.38	0.41
3:Dl:27:PRO:CB	4:Fl:30:TYR:HA	2.51	0.41
3:Dl:100:TYR:HA	3:Dl:215:SER:O	2.21	0.41
3:Dl:113:ALA:HB2	3:Dl:199:ASN:CG	2.46	0.41
3:Dl:152:SER:O	3:Dl:153:ALA:HB2	2.21	0.41
3:Dn:113:ALA:HB2	3:Dn:199:ASN:CG	2.46	0.41
3:Do:9:PRO:HD3	3:Ds:13:SER:O	2.20	0.41
3:Do:175:THR:HG1	3:Do:178:ASN:CG	2.28	0.41
3:Dp:152:SER:O	3:Dp:153:ALA:HB2	2.21	0.41
3:Dp:175:THR:HG1	3:Dp:178:ASN:CG	2.28	0.41
3:Dq:86:HIS:ND1	3:Dq:86:HIS:C	2.77	0.41
3:Ds:113:ALA:HB2	3:Ds:199:ASN:CG	2.46	0.41
3:Ds:115:ALA:CB	3:Ds:194:THR:OG1	2.67	0.41
3:Ds:175:THR:HG1	3:Ds:178:ASN:CG	2.28	0.41
3:EA:23:THR:HA	3:EA:24:PRO:HD3	1.89	0.41
3:EC:113:ALA:HB2	3:EC:199:ASN:CG	2.46	0.41
3:ED:54:CYS:SG	3:ED:208:VAL:HG21	2.61	0.41
4:F1:32:ASN:HB3	4:F1:33:SER:H	1.58	0.41
4:F5:21:ILE:HG22	4:F5:21:ILE:O	2.20	0.41
4:FC:31:GLN:HE21	4:FC:31:GLN:HA	1.85	0.41
4:FN:31:GLN:HE21	4:FN:31:GLN:HA	1.85	0.41
4:Fb:21:ILE:HG22	4:Fb:21:ILE:O	2.20	0.41
4:Fc:29:GLN:HB2	4:Fc:30:TYR:HD1	1.84	0.41
4:Fh:31:GLN:HA	4:Fh:31:GLN:HE21	1.85	0.41
4:Fj:31:GLN:HB3	4:Fj:32:ASN:H	1.72	0.41
4:Fk:21:ILE:O	4:Fk:21:ILE:HG22	2.20	0.41
4:Fw:21:ILE:HG22	4:Fw:21:ILE:O	2.20	0.41
1:A0:24:MET:O	1:A0:25:HIS:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:48:LEU:O	1:A0:131:GLN:HG2	2.20	0.41
1:A0:188:PRO:HG3	3:D2:176:VAL:CG1	2.50	0.41
1:A0:242:ASN:ND2	1:AZ:108:PRO:O	2.54	0.41
1:A1:184:TYR:HE2	2:C2:139:ALA:HB2	1.86	0.41
1:A1:219:TYR:CE2	3:D2:39:ARG:HD2	2.55	0.41
1:A2:88:PHE:CA	1:A2:207:CYS:HA	2.48	0.41
1:A3:65:GLN:HG2	1:A3:70:ARG:HD2	2.01	0.41
1:A3:112:PRO:CG	3:D5:223:PRO:HD3	2.50	0.41
1:A3:139:SER:HA	1:A3:140:PRO:HD3	1.62	0.41
1:A3:147:ALA:C	1:A3:149:SER:H	2.28	0.41
1:A3:234:LYS:HA	1:A3:234:LYS:HD3	1.89	0.41
1:A4:38:PHE:CE2	1:A4:68:TRP:HB2	2.56	0.41
1:A5:160:TYR:OH	1:A5:167:VAL:HG23	2.21	0.41
1:A7:160:TYR:OH	1:A7:167:VAL:HG23	2.21	0.41
1:A7:219:TYR:HA	3:D8:39:ARG:HA	2.02	0.41
1:A7:219:TYR:CE2	3:D8:39:ARG:HD2	2.55	0.41
1:A8:132:GLN:OE1	1:A9:66:LEU:HD21	2.20	0.41
1:A8:168:PRO:HB3	2:C9:180:PRO:HB3	2.03	0.41
1:A8:219:TYR:CE2	3:D9:39:ARG:HD2	2.55	0.41
1:AA:20:SER:HA	1:AA:21:PRO:HD3	1.92	0.41
1:AA:48:LEU:HA	1:AA:198:THR:OG1	2.20	0.41
1:AA:71:LEU:HD11	1:AE:138:MET:HE1	2.02	0.41
1:AB:48:LEU:O	1:AB:131:GLN:HG2	2.20	0.41
1:AB:188:PRO:HG3	3:DC:176:VAL:CG1	2.50	0.41
1:AC:38:PHE:CD2	1:AC:68:TRP:HB2	2.56	0.41
1:AC:55:HIS:O	1:AC:194:SER:HA	2.21	0.41
1:AC:112:PRO:CG	3:DD:223:PRO:HD3	2.50	0.41
1:AC:160:TYR:OH	1:AC:167:VAL:HG23	2.21	0.41
1:AD:38:PHE:CD2	1:AD:68:TRP:HB2	2.56	0.41
1:AE:38:PHE:CE2	1:AE:68:TRP:HB2	2.56	0.41
1:AE:184:TYR:CE2	2:CE:139:ALA:CB	3.03	0.41
1:AF:66:LEU:HD21	1:AJ:132:GLN:OE1	2.20	0.41
1:AF:206:GLY:CA	1:AJ:121:LEU:HD21	2.47	0.41
1:AF:224:ILE:HD11	3:DF:89:TYR:CE1	2.55	0.41
1:AF:243:ILE:H	1:AF:243:ILE:HG13	1.70	0.41
1:AG:42:THR:O	1:AG:42:THR:CG2	2.69	0.41
1:AG:234:LYS:HA	1:AG:234:LYS:HD3	1.89	0.41
1:AH:48:LEU:O	1:AH:131:GLN:HG2	2.20	0.41
1:AI:224:ILE:HD11	3:DI:89:TYR:CE1	2.55	0.41
1:AK:48:LEU:HA	1:AK:198:THR:OG1	2.20	0.41
1:AK:175:GLY:N	1:AK:183:THR:O	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:219:TYR:CE2	3:DK:39:ARG:HD2	2.55	0.41
1:AK:242:ASN:ND2	1:AO:108:PRO:O	2.54	0.41
1:AL:38:PHE:CD2	1:AL:68:TRP:HB2	2.56	0.41
1:AL:234:LYS:HA	1:AL:234:LYS:HD3	1.89	0.41
1:AM:112:PRO:CG	3:DN:223:PRO:HD3	2.50	0.41
1:AM:113:THR:HG22	1:AM:114:LYS:N	2.36	0.41
1:AM:160:TYR:OH	1:AM:167:VAL:HG23	2.21	0.41
1:AM:164:TRP:HE1	1:AM:187:LEU:CD1	2.28	0.41
1:AN:147:ALA:C	1:AN:149:SER:H	2.28	0.41
1:AN:219:TYR:HD2	3:DN:39:ARG:HB2	1.79	0.41
1:AP:43:LEU:N	1:AP:43:LEU:CD2	2.74	0.41
1:AQ:49:THR:CG2	1:AQ:50:GLY:N	2.83	0.41
1:AQ:92:THR:HB	1:AQ:93:THR:H	1.62	0.41
1:AQ:184:TYR:CE2	2:CQ:139:ALA:CB	3.03	0.41
1:AR:87:GLN:HA	1:AR:153:ALA:HB2	2.02	0.41
1:AR:132:GLN:OE1	1:Ao:66:LEU:HD21	2.20	0.41
1:AR:224:ILE:HD11	3:DR:89:TYR:CE1	2.55	0.41
1:AS:38:PHE:CE2	1:AS:68:TRP:HB2	2.56	0.41
1:AS:48:LEU:O	1:AS:131:GLN:HG2	2.20	0.41
1:AS:71:LEU:HD11	1:Ao:138:MET:HE1	2.02	0.41
1:AT:24:MET:O	1:AT:25:HIS:HB2	2.21	0.41
1:AT:38:PHE:CE2	1:AT:68:TRP:HB2	2.56	0.41
1:AT:66:LEU:HD21	1:AX:132:GLN:OE1	2.20	0.41
1:AT:147:ALA:C	1:AT:149:SER:H	2.28	0.41
1:AT:168:PRO:HB3	2:CU:180:PRO:HB3	2.03	0.41
1:AU:24:MET:O	1:AU:25:HIS:HB2	2.21	0.41
1:AU:38:PHE:CD2	1:AU:68:TRP:HB2	2.56	0.41
1:AU:168:PRO:HB3	2:CV:180:PRO:HB3	2.03	0.41
1:AV:41:GLU:O	1:AV:42:THR:HB	2.20	0.41
1:AV:160:TYR:OH	1:AV:167:VAL:HG23	2.21	0.41
1:AW:41:GLU:O	1:AW:42:THR:HB	2.19	0.41
1:AW:113:THR:HG22	1:AW:114:LYS:N	2.36	0.41
1:AW:219:TYR:CE2	3:DX:39:ARG:HD2	2.55	0.41
1:AX:6:GLU:O	2:CY:162:LEU:N	2.53	0.41
1:AX:48:LEU:O	1:AX:131:GLN:HG2	2.20	0.41
1:AX:55:HIS:O	1:AX:194:SER:HA	2.21	0.41
1:AY:160:TYR:OH	1:AY:167:VAL:HG23	2.21	0.41
1:AY:220:CYS:HA	1:AY:221:PRO:HD2	1.82	0.41
1:Aa:42:THR:O	1:Aa:42:THR:CG2	2.69	0.41
1:Aa:79:PHE:CE2	1:Aa:160:TYR:CD2	3.08	0.41
1:Aa:107:PHE:CE1	1:Aa:196:LEU:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aa:109:VAL:HG22	1:Aa:191:HIS:HD2	1.82	0.41
1:Ab:168:PRO:HB3	2:Cd:180:PRO:HB3	2.03	0.41
1:Ab:191:HIS:HB2	1:Ab:192:PHE:H	1.71	0.41
1:Ac:42:THR:O	1:Ac:42:THR:CG2	2.69	0.41
1:Ac:72:LEU:O	1:Ac:75:CYS:SG	2.76	0.41
1:Ac:79:PHE:CE2	1:Ac:160:TYR:CD2	3.08	0.41
1:Ac:101:PHE:CD2	1:Ac:143:VAL:CG1	2.91	0.41
1:Ac:128:VAL:O	1:Ac:128:VAL:HG13	2.19	0.41
1:Ac:219:TYR:CE2	3:De:39:ARG:HD2	2.55	0.41
1:Ac:224:ILE:HD11	3:De:89:TYR:CE1	2.55	0.41
1:Ad:88:PHE:CA	1:Ad:207:CYS:HA	2.48	0.41
1:Ae:74:THR:HG22	1:Ae:74:THR:O	2.19	0.41
1:Af:42:THR:O	1:Af:42:THR:CG2	2.69	0.41
1:Ag:184:TYR:HE2	2:Ci:139:ALA:HB2	1.86	0.41
1:Ag:188:PRO:HG3	3:De:176:VAL:CG1	2.50	0.41
1:Ag:224:ILE:HA	1:Ag:225:PRO:HD2	1.86	0.41
1:Ah:112:PRO:CG	3:Dk:223:PRO:HD3	2.50	0.41
1:Ah:220:CYS:HA	1:Ah:221:PRO:HD2	1.82	0.41
1:Ah:224:ILE:HA	1:Ah:225:PRO:HD2	1.86	0.41
1:Ai:6:GLU:O	2:Ck:162:LEU:N	2.53	0.41
1:Ai:42:THR:O	1:Ai:42:THR:CG2	2.69	0.41
1:Ai:62:SER:HB2	1:Ai:73:ASN:ND2	2.27	0.41
1:Ai:219:TYR:CE2	3:Dk:39:ARG:HD2	2.55	0.41
1:Aj:6:GLU:O	2:Cl:162:LEU:N	2.53	0.41
1:Ak:48:LEU:O	1:Ak:131:GLN:HG2	2.20	0.41
1:Ak:49:THR:CG2	1:Ak:50:GLY:N	2.83	0.41
1:Ak:160:TYR:OH	1:Ak:167:VAL:HG23	2.21	0.41
1:Ak:184:TYR:HE2	2:Cm:139:ALA:HB2	1.86	0.41
1:Am:48:LEU:O	1:Am:131:GLN:HG2	2.21	0.41
1:Am:65:GLN:HG2	1:Am:70:ARG:HD2	2.01	0.41
1:Am:160:TYR:OH	1:Am:167:VAL:HG23	2.21	0.41
1:An:72:LEU:O	1:An:75:CYS:SG	2.76	0.41
1:An:188:PRO:HG3	3:Dc:176:VAL:CG1	2.50	0.41
1:Ao:42:THR:O	1:Ao:42:THR:CG2	2.69	0.41
1:BB:75:CYS:CB	1:BB:218:MET:SD	3.03	0.41
1:BB:121:LEU:HD21	1:BC:206:GLY:CA	2.47	0.41
1:BB:128:VAL:O	1:BB:128:VAL:HG13	2.19	0.41
1:BB:140:PRO:HB3	3:Dq:25:LEU:HB3	2.03	0.41
1:BB:239:PHE:CD2	3:Dq:226:GLN:NE2	2.87	0.41
1:BD:41:GLU:O	1:BD:42:THR:HB	2.19	0.41
1:BD:74:THR:HG22	1:BD:74:THR:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:219:TYR:CE2	3:Ds:39:ARG:HD2	2.56	0.41
1:BE:143:VAL:H	3:EB:14:PHE:CB	2.28	0.41
1:BE:219:TYR:HD2	3:EA:39:ARG:HB2	1.79	0.41
1:BE:242:ASN:ND2	1:BI:108:PRO:O	2.54	0.41
1:BF:103:TRP:CZ2	1:BG:208:TYR:CE2	3.06	0.41
1:BF:219:TYR:HA	3:EB:39:ARG:HA	2.02	0.41
1:BG:42:THR:O	1:BG:42:THR:CG2	2.69	0.41
1:BG:93:THR:O	1:BG:95:SER:N	2.53	0.41
2:C0:26:SER:O	2:C0:27:GLN:C	2.64	0.41
2:C0:103:LEU:O	2:C0:223:ASN:ND2	2.49	0.41
2:C2:103:LEU:HD12	2:C2:223:ASN:HB2	2.02	0.41
2:C2:180:PRO:HD2	2:C2:189:HIS:HE1	1.76	0.41
2:C4:153:GLN:HE22	3:D4:55:SER:N	2.19	0.41
2:C5:13:ARG:HD3	2:C5:13:ARG:HA	1.72	0.41
2:C5:139:ALA:O	2:C5:140:LEU:HB2	2.21	0.41
2:C5:153:GLN:HE22	3:D5:55:SER:N	2.19	0.41
2:C5:166:ARG:HD3	3:D5:110:PHE:O	2.20	0.41
2:C5:180:PRO:HD2	2:C5:189:HIS:HE1	1.76	0.41
2:C6:28:GLY:O	2:C6:168:ASN:HB2	2.21	0.41
2:C6:103:LEU:HD12	2:C6:223:ASN:HB2	2.02	0.41
2:C6:117:SER:HB3	3:DE:192:THR:CG2	2.47	0.41
2:C7:103:LEU:O	2:C7:223:ASN:ND2	2.49	0.41
2:C7:153:GLN:HE22	3:D7:55:SER:CB	2.33	0.41
2:C8:135:THR:HB	2:C8:139:ALA:CB	2.50	0.41
2:C9:117:SER:HB3	3:DI:192:THR:CG2	2.47	0.41
2:CA:26:SER:O	2:CA:27:GLN:C	2.64	0.41
2:CA:117:SER:HB3	3:DW:192:THR:CG2	2.47	0.41
2:CA:166:ARG:HD3	3:DA:110:PHE:O	2.20	0.41
2:CB:36:TYR:CE2	2:CB:130:PRO:CG	2.98	0.41
2:CC:152:TYR:HB3	2:CC:197:LEU:CD2	2.51	0.41
2:CD:36:TYR:CE2	2:CD:130:PRO:CG	2.98	0.41
2:CD:56:PRO:C	2:CD:57:THR:O	2.59	0.41
2:CD:103:LEU:HD12	2:CD:223:ASN:HB2	2.02	0.41
2:CE:33:THR:HG21	2:CE:160:HIS:O	2.20	0.41
2:CE:49:ASP:HA	2:CE:50:PRO:HD2	1.81	0.41
2:CF:26:SER:O	2:CF:27:GLN:C	2.64	0.41
2:CF:135:THR:HB	2:CF:139:ALA:CB	2.50	0.41
2:CG:103:LEU:O	2:CG:223:ASN:ND2	2.49	0.41
2:CH:69:TRP:CZ3	2:CH:124:LEU:HD21	2.56	0.41
2:CH:88:LEU:C	2:CH:90:LYS:N	2.79	0.41
2:CI:69:TRP:CZ3	2:CI:124:LEU:HD21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:135:THR:O	2:CI:137:GLU:N	2.53	0.41
2:CJ:26:SER:O	2:CJ:27:GLN:C	2.64	0.41
2:CJ:28:GLY:O	2:CJ:168:ASN:HB2	2.21	0.41
2:CJ:153:GLN:HE22	3:DJ:55:SER:N	2.19	0.41
2:CK:26:SER:C	3:Db:147:ASP:HB3	2.45	0.41
2:CL:33:THR:HG21	2:CL:160:HIS:O	2.20	0.41
2:CM:69:TRP:CZ3	2:CM:124:LEU:HD21	2.56	0.41
2:CM:115:ASN:C	3:Di:119:LYS:NZ	2.77	0.41
2:CN:69:TRP:CZ3	2:CN:124:LEU:HD21	2.56	0.41
2:CO:103:LEU:HD12	2:CO:223:ASN:HB2	2.02	0.41
2:CO:152:TYR:HB3	2:CO:197:LEU:CD2	2.51	0.41
2:CP:153:GLN:HE22	3:DP:55:SER:N	2.19	0.41
2:CP:216:ALA:HA	2:CP:217:PRO:HD3	1.78	0.41
2:CQ:26:SER:O	2:CQ:27:GLN:C	2.64	0.41
2:CQ:56:PRO:C	2:CQ:57:THR:O	2.59	0.41
2:CQ:135:THR:HB	2:CQ:139:ALA:CB	2.50	0.41
2:CS:49:ASP:HA	2:CS:50:PRO:HD2	1.80	0.41
2:CT:56:PRO:C	2:CT:57:THR:O	2.59	0.41
2:CT:69:TRP:HZ2	2:CT:198:ILE:HG23	1.85	0.41
2:CT:88:LEU:C	2:CT:90:LYS:N	2.79	0.41
2:CT:103:LEU:HD21	3:DP:163:PRO:HD3	2.01	0.41
2:CU:103:LEU:O	2:CU:223:ASN:ND2	2.49	0.41
2:CV:56:PRO:C	2:CV:57:THR:O	2.59	0.41
2:CV:134:HIS:HB3	2:CV:135:THR:H	1.46	0.41
2:CV:180:PRO:HD2	2:CV:189:HIS:HE1	1.76	0.41
2:CW:69:TRP:CZ3	2:CW:124:LEU:HD21	2.56	0.41
2:CW:153:GLN:NE2	3:DW:53:PHE:O	2.50	0.41
2:CX:209:VAL:O	2:CX:209:VAL:CG1	2.65	0.41
2:CY:26:SER:C	3:DZ:147:ASP:HB3	2.45	0.41
2:CY:83:LEU:HA	2:CY:84:PRO:HA	1.60	0.41
2:CZ:153:GLN:HE22	3:DZ:55:SER:N	2.19	0.41
2:Ca:152:TYR:HB3	2:Ca:197:LEU:CD2	2.51	0.41
2:Cb:68:GLU:O	2:Cb:69:TRP:C	2.63	0.41
2:Cg:166:ARG:HD3	3:Dg:110:PHE:O	2.20	0.41
2:Ch:28:GLY:O	2:Ch:168:ASN:HB2	2.21	0.41
2:Ch:153:GLN:NE2	3:Dh:53:PHE:O	2.50	0.41
2:Ch:166:ARG:HD3	3:Dh:110:PHE:O	2.20	0.41
2:Ci:139:ALA:O	2:Ci:140:LEU:HB2	2.21	0.41
2:Ci:153:GLN:HE22	3:Di:55:SER:CB	2.33	0.41
2:Ci:166:ARG:HD3	3:Di:110:PHE:O	2.20	0.41
2:Cj:33:THR:HG21	2:Cj:160:HIS:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cj:115:ASN:HD22	3:DM:190:ALA:C	2.17	0.41
2:Cj:135:THR:O	2:Cj:137:GLU:N	2.53	0.41
2:Cj:153:GLN:HE22	3:Dj:55:SER:N	2.19	0.41
2:Ck:55:GLY:HA2	2:Ck:56:PRO:HD3	1.80	0.41
2:Ck:69:TRP:CZ3	2:Ck:124:LEU:HD21	2.56	0.41
2:Cl:57:THR:O	2:Cl:59:SER:N	2.52	0.41
2:Cl:115:ASN:C	3:D8:119:LYS:NZ	2.77	0.41
2:Cm:69:TRP:CZ3	2:Cm:124:LEU:HD21	2.56	0.41
2:Co:153:GLN:HE22	3:Do:55:SER:N	2.19	0.41
2:Cp:103:LEU:O	2:Cp:223:ASN:ND2	2.49	0.41
2:Cq:88:LEU:C	2:Cq:90:LYS:N	2.79	0.41
2:Ct:20:GLY:CA	2:Ct:56:PRO:O	2.67	0.41
2:Cu:57:THR:O	2:Cu:58:LEU:CB	2.66	0.41
2:Cu:69:TRP:HZ2	2:Cu:198:ILE:HG23	1.85	0.41
2:Cu:69:TRP:CD1	2:Cu:70:PRO:N	2.89	0.41
2:Cv:28:GLY:O	2:Cv:168:ASN:HB2	2.21	0.41
2:Cw:69:TRP:CZ3	2:Cw:124:LEU:HD21	2.56	0.41
2:Cx:216:ALA:HA	2:Cx:217:PRO:HD3	1.78	0.41
3:D0:115:ALA:CB	3:D0:194:THR:OG1	2.67	0.41
3:D0:119:LYS:HG2	3:D0:147:ASP:CG	2.45	0.41
3:D1:27:PRO:CB	4:F1:30:TYR:HA	2.51	0.41
3:D2:113:ALA:HB2	3:D2:199:ASN:CG	2.46	0.41
3:D2:120:PHE:HD2	3:D2:146:TRP:CZ2	2.38	0.41
3:D2:121:LEU:C	3:D2:121:LEU:CD2	2.89	0.41
3:D3:98:ALA:HB2	3:D3:220:VAL:HG21	2.01	0.41
3:D4:8:VAL:CG1	3:D4:9:PRO:HD2	2.39	0.41
3:D4:54:CYS:SG	3:D4:208:VAL:HG21	2.61	0.41
3:D4:113:ALA:HB2	3:D4:199:ASN:CG	2.46	0.41
3:D5:54:CYS:SG	3:D5:208:VAL:HG21	2.61	0.41
3:D5:75:GLN:NE2	3:D5:184:GLN:OE1	2.49	0.41
3:D5:113:ALA:HB2	3:D5:199:ASN:CG	2.46	0.41
3:D7:84:GLU:C	3:D7:86:HIS:H	2.28	0.41
3:D7:223:PRO:HB2	3:D7:224:ASP:H	1.71	0.41
3:D9:119:LYS:HG2	3:D9:147:ASP:CG	2.45	0.41
3:DA:54:CYS:SG	3:DA:208:VAL:HG21	2.61	0.41
3:DB:168:ALA:C	3:DB:170:TYR:H	2.29	0.41
3:DC:100:TYR:HA	3:DC:215:SER:O	2.21	0.41
3:DC:152:SER:O	3:DC:153:ALA:HB2	2.21	0.41
3:DD:27:PRO:CB	4:FD:30:TYR:HA	2.51	0.41
3:DD:86:HIS:ND1	3:DD:86:HIS:C	2.77	0.41
3:DD:103:SER:OG	3:DD:213:ASP:OD2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:100:TYR:HA	3:DF:215:SER:O	2.21	0.41
3:DH:103:SER:OG	3:DH:213:ASP:OD2	2.39	0.41
3:DH:152:SER:O	3:DH:153:ALA:HB2	2.21	0.41
3:DK:53:PHE:N	3:DK:53:PHE:CD1	2.88	0.41
3:DO:84:GLU:C	3:DO:86:HIS:H	2.28	0.41
3:DO:120:PHE:HD2	3:DO:146:TRP:CZ2	2.38	0.41
3:DR:119:LYS:HG2	3:DR:147:ASP:CG	2.45	0.41
3:DS:113:ALA:HB2	3:DS:199:ASN:CG	2.46	0.41
3:DT:113:ALA:HB2	3:DT:199:ASN:CG	2.46	0.41
3:DU:113:ALA:HB2	3:DU:199:ASN:CG	2.46	0.41
3:DW:36:VAL:HA	3:DW:37:PRO:HD3	1.53	0.41
3:DW:152:SER:O	3:DW:153:ALA:HB2	2.21	0.41
3:DY:101:ARG:HH12	3:DY:165:ASP:HB3	1.84	0.41
3:DZ:47:ALA:HB2	3:DZ:89:TYR:CD2	2.56	0.41
3:DZ:98:ALA:HB2	3:DZ:220:VAL:HG21	2.01	0.41
3:DZ:113:ALA:HB2	3:DZ:199:ASN:CG	2.46	0.41
3:Da:64:VAL:HG13	3:Da:120:PHE:HE1	1.86	0.41
3:Db:31:VAL:CB	4:Fb:34:ILE:O	2.69	0.41
3:Db:84:GLU:C	3:Db:86:HIS:H	2.28	0.41
3:Db:152:SER:O	3:Db:153:ALA:HB2	2.21	0.41
3:Dd:100:TYR:HA	3:Dd:215:SER:O	2.21	0.41
3:Df:8:VAL:CG1	3:Df:9:PRO:HD2	2.39	0.41
3:Df:54:CYS:SG	3:Df:208:VAL:HG21	2.61	0.41
3:Df:115:ALA:CB	3:Df:194:THR:OG1	2.67	0.41
3:Df:168:ALA:C	3:Df:170:TYR:H	2.29	0.41
3:Dg:79:SER:O	3:Dg:81:SER:N	2.51	0.41
3:Dh:119:LYS:HG2	3:Dh:147:ASP:CG	2.45	0.41
3:Dh:152:SER:O	3:Dh:153:ALA:HB2	2.21	0.41
3:Dk:79:SER:O	3:Dk:81:SER:N	2.51	0.41
3:Dl:175:THR:HG1	3:Dl:178:ASN:CG	2.28	0.41
3:Dm:75:GLN:NE2	3:Dm:184:GLN:OE1	2.49	0.41
3:Do:23:THR:HA	3:Do:24:PRO:HD3	1.89	0.41
3:Dp:113:ALA:HB2	3:Dp:199:ASN:CG	2.46	0.41
3:Dq:13:SER:O	3:Dr:9:PRO:HD3	2.20	0.41
3:Dr:113:ALA:HB2	3:Dr:199:ASN:CG	2.46	0.41
3:Ds:84:GLU:C	3:Ds:86:HIS:H	2.28	0.41
3:EA:9:PRO:HD3	3:EE:13:SER:O	2.20	0.41
3:EA:47:ALA:HB2	3:EA:89:TYR:CD2	2.56	0.41
3:EA:54:CYS:SG	3:EA:208:VAL:HG21	2.61	0.41
3:EB:54:CYS:SG	3:EB:208:VAL:HG21	2.61	0.41
3:EB:100:TYR:HA	3:EB:215:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:103:SER:OG	3:EB:213:ASP:OD2	2.39	0.41
3:EC:54:CYS:SG	3:EC:208:VAL:HG21	2.61	0.41
3:ED:64:VAL:HG13	3:ED:120:PHE:HE1	1.85	0.41
3:ED:103:SER:OG	3:ED:213:ASP:OD2	2.39	0.41
4:F5:32:ASN:HB3	4:F5:33:SER:H	1.58	0.41
4:FX:21:ILE:O	4:FX:21:ILE:HG22	2.20	0.41
4:FZ:21:ILE:O	4:FZ:21:ILE:HG22	2.20	0.41
4:Fc:31:GLN:HA	4:Fc:31:GLN:HE21	1.85	0.41
4:Fh:21:ILE:HG22	4:Fh:21:ILE:O	2.20	0.41
4:Fs:31:GLN:HA	4:Fs:31:GLN:HE21	1.85	0.41
1:A0:224:ILE:HD11	3:D1:89:TYR:CE1	2.55	0.41
1:A1:48:LEU:O	1:A1:131:GLN:HG2	2.20	0.41
1:A1:92:THR:HB	1:A1:93:THR:H	1.62	0.41
1:A1:113:THR:HG22	1:A1:114:LYS:N	2.36	0.41
1:A1:160:TYR:OH	1:A1:167:VAL:HG23	2.21	0.41
1:A2:42:THR:O	1:A2:42:THR:CG2	2.69	0.41
1:A3:174:TRP:HB2	2:C4:188:LEU:CD2	2.44	0.41
1:A3:174:TRP:CD1	1:A3:184:TYR:HA	2.56	0.41
1:A3:224:ILE:HA	1:A3:225:PRO:HD2	1.86	0.41
1:A4:24:MET:O	1:A4:25:HIS:HB2	2.21	0.41
1:A4:140:PRO:HB3	3:D5:25:LEU:HB3	2.03	0.41
1:A4:174:TRP:CD1	1:A4:184:TYR:HA	2.56	0.41
1:A4:184:TYR:HE2	2:C5:139:ALA:HB2	1.86	0.41
1:A5:115:THR:HG23	1:A5:133:LEU:N	2.25	0.41
1:A5:184:TYR:CE2	2:C6:139:ALA:CB	3.03	0.41
1:A5:239:PHE:CD2	3:D6:226:GLN:NE2	2.87	0.41
1:A6:6:GLU:O	2:C7:162:LEU:N	2.53	0.41
1:A6:38:PHE:CD2	1:A6:68:TRP:HB2	2.56	0.41
1:A6:79:PHE:CE2	1:A6:160:TYR:CD2	3.08	0.41
1:A6:174:TRP:CD1	1:A6:184:TYR:HA	2.56	0.41
1:A7:93:THR:O	1:A7:95:SER:N	2.53	0.41
1:A7:140:PRO:HB3	3:D8:25:LEU:HB3	2.03	0.41
1:A7:170:PHE:HD2	1:A7:222:ARG:NH1	2.17	0.41
1:A8:38:PHE:CD2	1:A8:68:TRP:HB2	2.56	0.41
1:A8:191:HIS:HB2	1:A8:192:PHE:H	1.71	0.41
1:A8:242:ASN:ND2	1:Ab:108:PRO:O	2.54	0.41
1:A9:55:HIS:O	1:A9:194:SER:HA	2.21	0.41
1:A9:147:ALA:C	1:A9:149:SER:H	2.28	0.41
1:AA:38:PHE:CD2	1:AA:68:TRP:HB2	2.56	0.41
1:AA:108:PRO:O	1:AB:242:ASN:ND2	2.54	0.41
1:AA:219:TYR:CE2	3:DA:39:ARG:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:242:ASN:ND2	1:AE:108:PRO:O	2.54	0.41
1:AB:75:CYS:CB	1:AB:218:MET:SD	3.03	0.41
1:AD:121:LEU:HD21	1:AE:206:GLY:CA	2.47	0.41
1:AD:174:TRP:CD1	1:AD:184:TYR:HA	2.56	0.41
1:AE:140:PRO:HB3	3:DE:25:LEU:HB3	2.03	0.41
1:AF:42:THR:O	1:AF:42:THR:CG2	2.69	0.41
1:AF:112:PRO:CG	3:DG:223:PRO:HD3	2.50	0.41
1:AF:132:GLN:OE1	1:AG:66:LEU:HD21	2.20	0.41
1:AG:24:MET:O	1:AG:25:HIS:HB2	2.21	0.41
1:AG:38:PHE:CE2	1:AG:68:TRP:HB2	2.56	0.41
1:AG:93:THR:O	1:AG:95:SER:N	2.53	0.41
1:AG:174:TRP:HB2	2:CG:188:LEU:CD2	2.44	0.41
1:AH:174:TRP:HB2	2:CH:188:LEU:CD2	2.44	0.41
1:AI:174:TRP:CD1	1:AI:184:TYR:HA	2.56	0.41
1:AJ:93:THR:O	1:AJ:95:SER:N	2.53	0.41
1:AJ:219:TYR:CE2	3:DJ:39:ARG:HD2	2.55	0.41
1:AK:79:PHE:CE2	1:AK:160:TYR:CD2	3.08	0.41
1:AK:108:PRO:O	1:AL:242:ASN:ND2	2.54	0.41
1:AL:188:PRO:HG3	3:DM:176:VAL:CG1	2.50	0.41
1:AL:219:TYR:CE2	3:DL:39:ARG:HD2	2.55	0.41
1:AM:174:TRP:CD1	1:AM:184:TYR:HA	2.56	0.41
1:AN:108:PRO:O	1:AO:242:ASN:ND2	2.54	0.41
1:AN:138:MET:HE1	1:AO:71:LEU:HD11	2.03	0.41
1:AN:174:TRP:CD1	1:AN:184:TYR:HA	2.56	0.41
1:AN:239:PHE:CD2	3:DN:226:GLN:NE2	2.87	0.41
1:AO:174:TRP:CD1	1:AO:184:TYR:HA	2.56	0.41
1:AP:224:ILE:HD11	3:DP:89:TYR:CE1	2.55	0.41
1:AQ:87:GLN:HA	1:AQ:153:ALA:HB2	2.02	0.41
1:AQ:176:ALA:C	1:AQ:178:THR:N	2.79	0.41
1:AR:138:MET:HE1	1:Ao:71:LEU:HD11	2.02	0.41
1:AR:160:TYR:OH	1:AR:167:VAL:HG23	2.21	0.41
1:AS:20:SER:HA	1:AS:21:PRO:HD3	1.92	0.41
1:AS:38:PHE:CD2	1:AS:68:TRP:HB2	2.56	0.41
1:AS:42:THR:O	1:AS:42:THR:CG2	2.69	0.41
1:AT:224:ILE:HD11	3:DU:89:TYR:CE1	2.55	0.41
1:AU:38:PHE:CE2	1:AU:68:TRP:HB2	2.56	0.41
1:AU:79:PHE:CE2	1:AU:160:TYR:CD2	3.08	0.41
1:AU:147:ALA:C	1:AU:149:SER:H	2.28	0.41
1:AU:174:TRP:CD1	1:AU:184:TYR:HA	2.56	0.41
1:AV:55:HIS:O	1:AV:194:SER:HA	2.21	0.41
1:AX:219:TYR:HA	3:DY:39:ARG:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:24:MET:O	1:AY:25:HIS:HB2	2.21	0.41
1:AY:138:MET:HE1	1:AZ:71:LEU:HD11	2.03	0.41
1:AY:174:TRP:NE1	2:CZ:137:GLU:OE2	2.53	0.41
1:AZ:24:MET:O	1:AZ:25:HIS:HB2	2.21	0.41
1:AZ:38:PHE:CE2	1:AZ:68:TRP:HB2	2.56	0.41
1:AZ:42:THR:O	1:AZ:42:THR:CG2	2.69	0.41
1:AZ:168:PRO:HB3	2:C0:180:PRO:HB3	2.03	0.41
1:AZ:174:TRP:CD1	1:AZ:184:TYR:HA	2.56	0.41
1:Aa:41:GLU:O	1:Aa:42:THR:HB	2.19	0.41
1:Aa:43:LEU:N	1:Aa:43:LEU:CD2	2.74	0.41
1:Aa:108:PRO:O	1:Ab:242:ASN:ND2	2.54	0.41
1:Aa:160:TYR:OH	1:Aa:167:VAL:HG23	2.21	0.41
1:Aa:188:PRO:HG3	3:Dd:176:VAL:CG1	2.50	0.41
1:Ab:175:GLY:N	1:Ab:183:THR:O	2.53	0.41
1:Ac:6:GLU:O	2:Ce:162:LEU:N	2.53	0.41
1:Ac:38:PHE:CD2	1:Ac:68:TRP:HB2	2.56	0.41
1:Ac:174:TRP:CD1	1:Ac:184:TYR:HA	2.56	0.41
1:Ad:79:PHE:CE2	1:Ad:160:TYR:CD2	3.08	0.41
1:Ad:188:PRO:HG3	3:Dg:176:VAL:CG1	2.50	0.41
1:Ae:103:TRP:CZ2	1:Af:208:TYR:CE2	3.06	0.41
1:Ae:112:PRO:CG	3:Dh:223:PRO:HD3	2.50	0.41
1:Ae:168:PRO:HB3	2:Cg:180:PRO:HB3	2.03	0.41
1:Af:38:PHE:CD2	1:Af:68:TRP:HB2	2.56	0.41
1:Af:224:ILE:HD11	3:Dh:89:TYR:CE1	2.55	0.41
1:Ag:38:PHE:CE2	1:Ag:68:TRP:HB2	2.56	0.41
1:Ag:42:THR:O	1:Ag:42:THR:CG2	2.69	0.41
1:Ag:62:SER:HB2	1:Ag:73:ASN:ND2	2.27	0.41
1:Ag:88:PHE:HE1	1:Ag:205:GLY:CA	2.33	0.41
1:Ag:140:PRO:HB3	3:Di:25:LEU:HB3	2.03	0.41
1:Ag:174:TRP:NE1	2:Ci:137:GLU:OE2	2.53	0.41
1:Ah:41:GLU:O	1:Ah:42:THR:HB	2.19	0.41
1:Ah:147:ALA:C	1:Ah:149:SER:H	2.28	0.41
1:Ai:41:GLU:O	1:Ai:42:THR:HB	2.20	0.41
1:Ai:132:GLN:OE1	1:Aj:66:LEU:HD21	2.20	0.41
1:Ai:147:ALA:C	1:Ai:149:SER:H	2.28	0.41
1:Ai:184:TYR:CE2	2:Ck:139:ALA:CB	3.03	0.41
1:Aj:174:TRP:CD1	1:Aj:184:TYR:HA	2.56	0.41
1:Ak:93:THR:O	1:Ak:95:SER:N	2.53	0.41
1:Al:42:THR:O	1:Al:42:THR:CG2	2.69	0.41
1:Al:87:GLN:HA	1:Al:153:ALA:HB2	2.02	0.41
1:Al:140:PRO:HB3	3:Dn:25:LEU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:55:HIS:O	1:Am:194:SER:HA	2.21	0.41
1:Am:66:LEU:HD21	1:BD:132:GLN:OE1	2.20	0.41
1:Am:113:THR:HG22	1:Am:114:LYS:N	2.36	0.41
1:Am:224:ILE:HD11	3:Do:89:TYR:CE1	2.55	0.41
1:An:113:THR:HG22	1:An:114:LYS:N	2.36	0.41
1:Ao:128:VAL:O	1:Ao:128:VAL:HG13	2.19	0.41
1:Ao:224:ILE:HD11	3:DS:89:TYR:CE1	2.55	0.41
1:BB:174:TRP:CD1	1:BB:184:TYR:HA	2.56	0.41
1:BB:220:CYS:HA	1:BB:221:PRO:HD2	1.82	0.41
1:BC:160:TYR:OH	1:BC:167:VAL:HG23	2.21	0.41
1:BC:219:TYR:CE2	3:Dr:39:ARG:HD2	2.55	0.41
1:BE:147:ALA:C	1:BE:149:SER:H	2.28	0.41
1:BE:184:TYR:HE2	2:Ct:139:ALA:HB2	1.86	0.41
1:BF:72:LEU:O	1:BF:75:CYS:SG	2.76	0.41
1:BF:75:CYS:CB	1:BF:218:MET:SD	3.03	0.41
1:BF:112:PRO:CG	3:EC:223:PRO:HD3	2.50	0.41
1:BG:38:PHE:CD2	1:BG:68:TRP:HB2	2.56	0.41
1:BG:48:LEU:O	1:BG:131:GLN:HG2	2.20	0.41
1:BG:138:MET:HE1	1:BH:71:LEU:HD11	2.03	0.41
1:BH:38:PHE:CE2	1:BH:68:TRP:HB2	2.56	0.41
1:BH:48:LEU:O	1:BH:131:GLN:HG2	2.21	0.41
1:BH:140:PRO:HB3	3:ED:25:LEU:HB3	2.03	0.41
1:BH:147:ALA:C	1:BH:149:SER:H	2.28	0.41
1:BI:147:ALA:C	1:BI:149:SER:H	2.28	0.41
1:BI:168:PRO:HB3	2:Cx:180:PRO:HB3	2.03	0.41
2:C0:153:GLN:NE2	3:D0:53:PHE:O	2.50	0.41
2:C0:153:GLN:HE22	3:D0:55:SER:CB	2.33	0.41
2:C0:175:MET:H	2:C0:175:MET:HG2	1.79	0.41
2:C1:57:THR:O	2:C1:58:LEU:CB	2.66	0.41
2:C1:153:GLN:HE22	3:D1:55:SER:CB	2.33	0.41
2:C3:139:ALA:O	2:C3:140:LEU:HB2	2.21	0.41
2:C5:26:SER:O	2:C5:27:GLN:C	2.64	0.41
2:C5:68:GLU:O	2:C5:69:TRP:C	2.63	0.41
2:C6:26:SER:O	2:C6:27:GLN:C	2.64	0.41
2:C7:88:LEU:C	2:C7:90:LYS:N	2.79	0.41
2:C8:103:LEU:HD12	2:C8:223:ASN:HB2	2.02	0.41
2:C9:26:SER:O	2:C9:27:GLN:C	2.64	0.41
2:C9:139:ALA:O	2:C9:140:LEU:HB2	2.21	0.41
2:CA:103:LEU:HD21	3:DB:163:PRO:HD3	2.01	0.41
2:CA:152:TYR:HB3	2:CA:197:LEU:CD2	2.51	0.41
2:CB:69:TRP:CD1	2:CB:70:PRO:N	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:153:GLN:HE22	3:DB:55:SER:CB	2.33	0.41
2:CC:26:SER:C	3:Dn:147:ASP:HB3	2.45	0.41
2:CD:152:TYR:HB3	2:CD:197:LEU:CD2	2.51	0.41
2:CE:153:GLN:HE22	3:DE:55:SER:CB	2.33	0.41
2:CG:135:THR:O	2:CG:137:GLU:N	2.53	0.41
2:CH:134:HIS:HB3	2:CH:135:THR:H	1.46	0.41
2:CJ:88:LEU:C	2:CJ:90:LYS:N	2.79	0.41
2:CK:69:TRP:CD1	2:CK:70:PRO:N	2.89	0.41
2:CL:28:GLY:O	2:CL:168:ASN:HB2	2.21	0.41
2:CL:69:TRP:CZ3	2:CL:124:LEU:HD21	2.56	0.41
2:CN:153:GLN:HE22	3:DN:55:SER:CB	2.33	0.41
2:CN:218:ILE:HD13	2:CN:218:ILE:HG21	1.89	0.41
2:CO:69:TRP:CZ3	2:CO:124:LEU:HD21	2.56	0.41
2:CO:139:ALA:O	2:CO:140:LEU:HB2	2.21	0.41
2:CP:152:TYR:HB3	2:CP:197:LEU:CD2	2.51	0.41
2:CR:26:SER:O	2:CR:27:GLN:C	2.64	0.41
2:CR:28:GLY:O	2:CR:168:ASN:HB2	2.20	0.41
2:CS:68:GLU:O	2:CS:69:TRP:C	2.63	0.41
2:CS:69:TRP:HZ2	2:CS:198:ILE:HG23	1.84	0.41
2:CT:26:SER:O	2:CT:27:GLN:C	2.64	0.41
2:CU:55:GLY:HA2	2:CU:56:PRO:HD3	1.80	0.41
2:CU:69:TRP:CD1	2:CU:70:PRO:N	2.89	0.41
2:CU:166:ARG:HD3	3:DU:110:PHE:O	2.20	0.41
2:CV:153:GLN:HE22	3:DV:55:SER:N	2.19	0.41
2:CX:57:THR:O	2:CX:58:LEU:CB	2.66	0.41
2:CX:166:ARG:HD3	3:DX:110:PHE:O	2.20	0.41
2:CY:69:TRP:CZ3	2:CY:124:LEU:HD21	2.56	0.41
2:CY:166:ARG:HD3	3:DY:110:PHE:O	2.20	0.41
2:CZ:26:SER:O	2:CZ:27:GLN:C	2.64	0.41
2:CZ:57:THR:O	2:CZ:58:LEU:CB	2.66	0.41
2:Cb:103:LEU:HD12	2:Cb:223:ASN:HB2	2.02	0.41
2:Cb:134:HIS:HB3	2:Cb:135:THR:H	1.46	0.41
2:Ce:28:GLY:O	2:Ce:168:ASN:HB2	2.20	0.41
2:Ce:65:LYS:CB	3:DC:135:ARG:HH21	2.29	0.41
2:Ce:207:GLN:HB3	3:DC:196:ILE:HG21	2.01	0.41
2:Cf:103:LEU:O	2:Cf:223:ASN:ND2	2.49	0.41
2:Ci:28:GLY:O	2:Ci:168:ASN:HB2	2.21	0.41
2:Ci:152:TYR:HB3	2:Ci:197:LEU:CD2	2.51	0.41
2:Cj:88:LEU:C	2:Cj:90:LYS:N	2.79	0.41
2:Cl:26:SER:C	3:D8:147:ASP:HB3	2.45	0.41
2:Cl:68:GLU:O	2:Cl:69:TRP:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cl:88:LEU:C	2:Cl:90:LYS:N	2.79	0.41
2:Cl:103:LEU:HD12	2:Cl:223:ASN:HB2	2.02	0.41
2:Cn:115:ASN:C	3:De:119:LYS:NZ	2.77	0.41
2:Cn:153:GLN:HE22	3:Dn:55:SER:CB	2.33	0.41
2:Co:69:TRP:HZ2	2:Co:198:ILE:HG23	1.84	0.41
2:Co:88:LEU:C	2:Co:90:LYS:N	2.79	0.41
2:Cp:103:LEU:HD12	2:Cp:223:ASN:HB2	2.02	0.41
2:Cq:33:THR:HG21	2:Cq:160:HIS:O	2.20	0.41
2:Cq:69:TRP:CZ3	2:Cq:124:LEU:HD21	2.56	0.41
2:Cr:68:GLU:O	2:Cr:69:TRP:C	2.63	0.41
2:Cs:69:TRP:CZ3	2:Cs:124:LEU:HD21	2.56	0.41
2:Ct:152:TYR:HB3	2:Ct:197:LEU:CD2	2.51	0.41
2:Cw:23:ILE:N	2:Cw:23:ILE:CD1	2.81	0.41
2:Cx:153:GLN:HE22	3:EE:55:SER:CB	2.33	0.41
3:D0:64:VAL:HG13	3:D0:120:PHE:HE1	1.86	0.41
3:D1:100:TYR:HA	3:D1:215:SER:O	2.21	0.41
3:D4:115:ALA:CB	3:D4:194:THR:OG1	2.67	0.41
3:D5:119:LYS:HG2	3:D5:147:ASP:CG	2.45	0.41
3:D6:103:SER:HB2	3:D6:159:PRO:HA	1.95	0.41
3:D8:64:VAL:HG13	3:D8:120:PHE:HE1	1.85	0.41
3:D9:113:ALA:HB2	3:D9:199:ASN:CG	2.46	0.41
3:DA:53:PHE:N	3:DA:53:PHE:CD1	2.88	0.41
3:DE:100:TYR:HA	3:DE:215:SER:O	2.21	0.41
3:DF:103:SER:OG	3:DF:213:ASP:OD2	2.39	0.41
3:DF:113:ALA:HB2	3:DF:199:ASN:CG	2.46	0.41
3:DG:98:ALA:HB2	3:DG:220:VAL:HG21	2.01	0.41
3:DH:64:VAL:HG13	3:DH:120:PHE:HE1	1.85	0.41
3:DH:113:ALA:HB2	3:DH:199:ASN:CG	2.46	0.41
3:DH:121:LEU:C	3:DH:121:LEU:CD2	2.89	0.41
3:DI:168:ALA:C	3:DI:170:TYR:H	2.29	0.41
3:DJ:84:GLU:C	3:DJ:86:HIS:H	2.28	0.41
3:DJ:120:PHE:HD2	3:DJ:146:TRP:CZ2	2.38	0.41
3:DK:86:HIS:ND1	3:DK:86:HIS:C	2.77	0.41
3:DO:54:CYS:SG	3:DO:208:VAL:HG21	2.61	0.41
3:DO:100:TYR:CD1	3:DO:100:TYR:C	2.99	0.41
3:DP:84:GLU:C	3:DP:86:HIS:H	2.28	0.41
3:DP:103:SER:OG	3:DP:213:ASP:OD2	2.39	0.41
3:DR:53:PHE:CD1	3:DR:53:PHE:N	2.88	0.41
3:DR:100:TYR:HA	3:DR:215:SER:O	2.21	0.41
3:DT:175:THR:HG1	3:DT:178:ASN:CG	2.28	0.41
3:DU:119:LYS:HG2	3:DU:147:ASP:CG	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:175:THR:HG1	3:DU:178:ASN:CG	2.28	0.41
3:DV:64:VAL:HG13	3:DV:120:PHE:HE1	1.86	0.41
3:DV:100:TYR:HA	3:DV:215:SER:O	2.21	0.41
3:DW:120:PHE:HD2	3:DW:146:TRP:CZ2	2.38	0.41
3:DX:119:LYS:HG2	3:DX:147:ASP:CG	2.45	0.41
3:DY:53:PHE:N	3:DY:53:PHE:CD1	2.88	0.41
3:DZ:54:CYS:SG	3:DZ:208:VAL:HG21	2.61	0.41
3:DZ:119:LYS:HG2	3:DZ:147:ASP:CG	2.45	0.41
3:DZ:168:ALA:C	3:DZ:170:TYR:H	2.29	0.41
3:Db:13:SER:O	3:Dc:9:PRO:HD3	2.20	0.41
3:Db:64:VAL:HG13	3:Db:120:PHE:HE1	1.85	0.41
3:Db:175:THR:HG1	3:Db:178:ASN:CG	2.28	0.41
3:Dc:113:ALA:HB2	3:Dc:199:ASN:CG	2.46	0.41
3:Dd:53:PHE:N	3:Dd:53:PHE:CD1	2.88	0.41
3:De:84:GLU:N	3:De:84:GLU:CD	2.79	0.41
3:Df:152:SER:O	3:Df:153:ALA:HB2	2.21	0.41
3:Dg:84:GLU:CD	3:Dg:84:GLU:N	2.79	0.41
3:Dh:98:ALA:HB2	3:Dh:220:VAL:HG21	2.01	0.41
3:Dk:31:VAL:CB	4:Fk:34:ILE:O	2.69	0.41
3:Dl:54:CYS:SG	3:Dl:208:VAL:HG21	2.61	0.41
3:Dm:119:LYS:HG2	3:Dm:147:ASP:CG	2.45	0.41
3:Dn:43:PHE:O	3:Dn:44:ILE:C	2.60	0.41
3:Dn:86:HIS:ND1	3:Dn:86:HIS:C	2.77	0.41
3:Do:98:ALA:HB2	3:Do:220:VAL:HG21	2.01	0.41
3:Do:115:ALA:CB	3:Do:194:THR:OG1	2.67	0.41
3:Do:152:SER:O	3:Do:153:ALA:HB2	2.21	0.41
3:Dp:54:CYS:SG	3:Dp:208:VAL:HG21	2.61	0.41
3:Dp:84:GLU:C	3:Dp:86:HIS:H	2.28	0.41
3:Dp:103:SER:OG	3:Dp:213:ASP:OD2	2.39	0.41
3:Dq:53:PHE:N	3:Dq:53:PHE:CD1	2.88	0.41
3:Dq:54:CYS:SG	3:Dq:208:VAL:HG21	2.61	0.41
3:Dr:47:ALA:HB2	3:Dr:89:TYR:CD2	2.56	0.41
3:EB:152:SER:O	3:EB:153:ALA:HB2	2.21	0.41
3:EC:152:SER:O	3:EC:153:ALA:HB2	2.21	0.41
3:ED:152:SER:O	3:ED:153:ALA:HB2	2.21	0.41
4:FS:32:ASN:HB3	4:FS:33:SER:H	1.58	0.41
4:Ff:32:ASN:HB3	4:Ff:33:SER:H	1.58	0.41
4:Fo:31:GLN:HE21	4:Fo:31:GLN:HA	1.85	0.41
4:Fw:31:GLN:HE21	4:Fw:31:GLN:HA	1.85	0.41
1:A0:38:PHE:CD2	1:A0:68:TRP:HB2	2.56	0.41
1:A0:66:LEU:HD21	1:AZ:132:GLN:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:160:TYR:OH	1:A0:167:VAL:HG23	2.21	0.41
1:A0:184:TYR:CE2	2:C1:139:ALA:CB	3.03	0.41
1:A1:38:PHE:CE2	1:A1:68:TRP:HB2	2.56	0.41
1:A1:55:HIS:O	1:A1:194:SER:HA	2.21	0.41
1:A1:87:GLN:HA	1:A1:153:ALA:HB2	2.02	0.41
1:A1:101:PHE:O	1:A1:199:SER:OG	2.33	0.41
1:A1:140:PRO:HB3	3:D2:25:LEU:HB3	2.03	0.41
1:A1:174:TRP:CD1	1:A1:184:TYR:HA	2.56	0.41
1:A1:175:GLY:N	1:A1:183:THR:O	2.52	0.41
1:A1:224:ILE:CD1	3:D2:89:TYR:CE1	3.04	0.41
1:A2:108:PRO:O	1:AY:242:ASN:ND2	2.54	0.41
1:A2:140:PRO:HB3	3:D3:25:LEU:HB3	2.03	0.41
1:A2:147:ALA:C	1:A2:149:SER:H	2.28	0.41
1:A3:6:GLU:O	2:C4:162:LEU:N	2.53	0.41
1:A3:38:PHE:CD2	1:A3:68:TRP:HB2	2.56	0.41
1:A3:87:GLN:HA	1:A3:153:ALA:HB2	2.02	0.41
1:A3:107:PHE:CE1	1:A3:196:LEU:HB2	2.55	0.41
1:A3:113:THR:HG22	1:A3:114:LYS:N	2.36	0.41
1:A3:184:TYR:HE2	2:C4:139:ALA:HB3	1.84	0.41
1:A4:48:LEU:O	1:A4:131:GLN:HG2	2.20	0.41
1:A4:55:HIS:O	1:A4:194:SER:HA	2.21	0.41
1:A4:108:PRO:O	1:A5:242:ASN:ND2	2.54	0.41
1:A5:108:PRO:O	1:A6:242:ASN:ND2	2.54	0.41
1:A6:24:MET:O	1:A6:25:HIS:HB2	2.21	0.41
1:A6:38:PHE:CE2	1:A6:68:TRP:HB2	2.56	0.41
1:A6:42:THR:O	1:A6:42:THR:CG2	2.69	0.41
1:A6:113:THR:HG22	1:A6:114:LYS:N	2.36	0.41
1:A6:188:PRO:HG3	3:D8:176:VAL:CG1	2.50	0.41
1:A7:38:PHE:CE2	1:A7:68:TRP:HB2	2.56	0.41
1:A7:43:LEU:N	1:A7:43:LEU:CD2	2.74	0.41
1:A7:43:LEU:HD23	1:A7:43:LEU:H	1.81	0.41
1:A7:49:THR:CG2	1:A7:50:GLY:N	2.83	0.41
1:A7:88:PHE:CA	1:A7:207:CYS:HA	2.48	0.41
1:A7:113:THR:HG22	1:A7:114:LYS:N	2.36	0.41
1:A8:20:SER:HA	1:A8:21:PRO:HD3	1.92	0.41
1:A8:38:PHE:CE2	1:A8:68:TRP:HB2	2.56	0.41
1:A8:115:THR:HG23	1:A8:133:LEU:N	2.25	0.41
1:A8:140:PRO:HB3	3:D9:25:LEU:HB3	2.03	0.41
1:A9:40:VAL:HG13	1:A9:211:TYR:HD1	1.86	0.41
1:A9:48:LEU:HA	1:A9:198:THR:OG1	2.20	0.41
1:A9:132:GLN:OE1	1:An:66:LEU:HD21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:140:PRO:HB3	3:Da:25:LEU:HB3	2.03	0.41
1:A9:176:ALA:C	1:A9:178:THR:N	2.79	0.41
1:A9:219:TYR:CE2	3:Da:39:ARG:HD2	2.55	0.41
1:AA:6:GLU:O	2:CA:162:LEU:N	2.53	0.41
1:AA:107:PHE:CE1	1:AA:196:LEU:HB2	2.55	0.41
1:AA:113:THR:HG22	1:AA:114:LYS:N	2.36	0.41
1:AA:239:PHE:CD2	3:DA:226:GLN:NE2	2.87	0.41
1:AB:38:PHE:CD2	1:AB:68:TRP:HB2	2.56	0.41
1:AB:42:THR:O	1:AB:42:THR:CG2	2.69	0.41
1:AB:128:VAL:O	1:AB:128:VAL:HG13	2.19	0.41
1:AB:160:TYR:OH	1:AB:167:VAL:HG23	2.21	0.41
1:AB:174:TRP:HB2	2:CB:188:LEU:CD2	2.44	0.41
1:AB:176:ALA:C	1:AB:178:THR:N	2.79	0.41
1:AB:224:ILE:HD11	3:DB:89:TYR:CE1	2.55	0.41
1:AC:42:THR:O	1:AC:42:THR:CG2	2.69	0.41
1:AC:65:GLN:HG2	1:AC:70:ARG:HD2	2.01	0.41
1:AC:93:THR:O	1:AC:95:SER:N	2.53	0.41
1:AC:108:PRO:O	1:AD:242:ASN:ND2	2.54	0.41
1:AC:132:GLN:OE1	1:AD:66:LEU:HD21	2.20	0.41
1:AC:191:HIS:HB2	1:AC:192:PHE:H	1.71	0.41
1:AD:55:HIS:O	1:AD:194:SER:HA	2.21	0.41
1:AD:147:ALA:C	1:AD:149:SER:H	2.28	0.41
1:AD:160:TYR:OH	1:AD:167:VAL:HG23	2.21	0.41
1:AE:6:GLU:O	2:CE:162:LEU:N	2.53	0.41
1:AE:38:PHE:CD2	1:AE:68:TRP:HB2	2.56	0.41
1:AE:55:HIS:O	1:AE:194:SER:HA	2.21	0.41
1:AF:38:PHE:CE2	1:AF:68:TRP:HB2	2.56	0.41
1:AF:48:LEU:O	1:AF:131:GLN:HG2	2.20	0.41
1:AF:48:LEU:HA	1:AF:198:THR:OG1	2.20	0.41
1:AF:49:THR:CG2	1:AF:50:GLY:N	2.83	0.41
1:AF:87:GLN:HA	1:AF:153:ALA:HB2	2.02	0.41
1:AF:88:PHE:CA	1:AF:207:CYS:HA	2.48	0.41
1:AF:113:THR:HG22	1:AF:114:LYS:N	2.36	0.41
1:AF:121:LEU:HD21	1:AG:206:GLY:CA	2.47	0.41
1:AF:139:SER:HA	1:AF:140:PRO:HD3	1.62	0.41
1:AF:140:PRO:HB3	3:DF:25:LEU:HB3	2.03	0.41
1:AF:143:VAL:H	3:DG:14:PHE:CB	2.28	0.41
1:AF:160:TYR:OH	1:AF:167:VAL:HG23	2.21	0.41
1:AF:176:ALA:C	1:AF:178:THR:N	2.79	0.41
1:AG:38:PHE:CD2	1:AG:68:TRP:HB2	2.56	0.41
1:AG:79:PHE:CE2	1:AG:160:TYR:CD2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:6:GLU:O	2:CH:162:LEU:N	2.53	0.41
1:AH:42:THR:O	1:AH:42:THR:CG2	2.69	0.41
1:AH:48:LEU:HA	1:AH:198:THR:OG1	2.20	0.41
1:AH:146:ILE:HD13	1:AH:146:ILE:HG21	1.74	0.41
1:AH:168:PRO:HB3	2:CH:180:PRO:HB3	2.03	0.41
1:AH:224:ILE:HD11	3:DH:89:TYR:CE1	2.55	0.41
1:AI:24:MET:O	1:AI:25:HIS:HB2	2.21	0.41
1:AI:41:GLU:O	1:AI:42:THR:HB	2.19	0.41
1:AI:147:ALA:C	1:AI:149:SER:H	2.28	0.41
1:AI:160:TYR:OH	1:AI:167:VAL:HG23	2.21	0.41
1:AI:175:GLY:O	3:DJ:176:VAL:HG12	2.21	0.41
1:AI:176:ALA:C	1:AI:178:THR:N	2.79	0.41
1:AJ:41:GLU:O	1:AJ:42:THR:HB	2.19	0.41
1:AJ:48:LEU:HA	1:AJ:198:THR:OG1	2.20	0.41
1:AJ:55:HIS:O	1:AJ:194:SER:HA	2.21	0.41
1:AJ:184:TYR:HE2	2:CJ:139:ALA:HB2	1.86	0.41
1:AJ:225:PRO:HA	1:AJ:226:PRO:HD2	1.88	0.41
1:AK:40:VAL:HG13	1:AK:211:TYR:HD1	1.86	0.41
1:AK:55:HIS:O	1:AK:194:SER:HA	2.21	0.41
1:AK:82:LEU:HG	1:AK:83:GLU:H	1.86	0.41
1:AK:147:ALA:C	1:AK:149:SER:H	2.28	0.41
1:AL:24:MET:O	1:AL:25:HIS:HB2	2.21	0.41
1:AL:79:PHE:CE2	1:AL:160:TYR:CD2	3.08	0.41
1:AL:88:PHE:CA	1:AL:207:CYS:HA	2.48	0.41
1:AL:103:TRP:CZ2	1:AM:208:TYR:CE2	3.06	0.41
1:AL:108:PRO:O	1:AM:242:ASN:ND2	2.54	0.41
1:AL:138:MET:HE1	1:AM:71:LEU:HD11	2.02	0.41
1:AL:175:GLY:O	3:DM:176:VAL:HG12	2.21	0.41
1:AM:175:GLY:N	1:AM:183:THR:O	2.53	0.41
1:AM:184:TYR:CE2	2:CM:139:ALA:CB	3.03	0.41
1:AN:6:GLU:O	2:CN:162:LEU:N	2.53	0.41
1:AN:20:SER:HA	1:AN:21:PRO:HD3	1.92	0.41
1:AN:48:LEU:HA	1:AN:198:THR:OG1	2.20	0.41
1:AN:55:HIS:O	1:AN:194:SER:HA	2.21	0.41
1:AN:93:THR:O	1:AN:95:SER:N	2.53	0.41
1:AN:110:GLY:H	1:AO:242:ASN:ND2	2.12	0.41
1:AN:175:GLY:O	3:DO:176:VAL:HG12	2.21	0.41
1:AO:40:VAL:HG13	1:AO:211:TYR:HD1	1.86	0.41
1:AO:160:TYR:OH	1:AO:167:VAL:HG23	2.21	0.41
1:AO:168:PRO:HB3	2:CO:180:PRO:HB3	2.03	0.41
1:AO:219:TYR:HD2	3:DO:39:ARG:HB2	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:38:PHE:CD2	1:AP:68:TRP:HB2	2.56	0.41
1:AP:87:GLN:HA	1:AP:153:ALA:HB2	2.02	0.41
1:AP:147:ALA:C	1:AP:149:SER:H	2.28	0.41
1:AQ:38:PHE:CD2	1:AQ:68:TRP:HB2	2.56	0.41
1:AQ:42:THR:O	1:AQ:42:THR:CG2	2.69	0.41
1:AQ:108:PRO:O	1:AR:242:ASN:ND2	2.54	0.41
1:AQ:174:TRP:CD1	1:AQ:184:TYR:HA	2.56	0.41
1:AR:6:GLU:O	2:CR:162:LEU:N	2.53	0.41
1:AR:24:MET:O	1:AR:25:HIS:HB2	2.21	0.41
1:AR:38:PHE:CD2	1:AR:68:TRP:HB2	2.56	0.41
1:AR:110:GLY:O	1:Ao:241:THR:CG2	2.69	0.41
1:AS:55:HIS:O	1:AS:194:SER:HA	2.21	0.41
1:AS:112:PRO:CG	3:DP:223:PRO:HD3	2.50	0.41
1:AT:38:PHE:CD2	1:AT:68:TRP:HB2	2.56	0.41
1:AT:41:GLU:OE2	1:AT:211:TYR:OH	2.39	0.41
1:AU:108:PRO:O	1:AV:242:ASN:ND2	2.54	0.41
1:AU:112:PRO:CG	3:DW:223:PRO:HD3	2.50	0.41
1:AU:164:TRP:HE1	1:AU:187:LEU:CD1	2.28	0.41
1:AU:175:GLY:N	1:AU:183:THR:O	2.52	0.41
1:AU:191:HIS:HB2	1:AU:192:PHE:H	1.71	0.41
1:AV:38:PHE:CE2	1:AV:68:TRP:HB2	2.56	0.41
1:AV:107:PHE:CE1	1:AV:196:LEU:HB2	2.55	0.41
1:AV:113:THR:HG22	1:AV:114:LYS:N	2.36	0.41
1:AV:168:PRO:HB3	2:CW:180:PRO:HB3	2.03	0.41
1:AV:174:TRP:CD1	1:AV:184:TYR:HA	2.56	0.41
1:AV:174:TRP:NE1	2:CW:137:GLU:OE2	2.54	0.41
1:AV:220:CYS:HA	1:AV:221:PRO:HD2	1.82	0.41
1:AV:224:ILE:HD11	3:DW:89:TYR:CE1	2.55	0.41
1:AW:38:PHE:CD2	1:AW:68:TRP:HB2	2.56	0.41
1:AW:41:GLU:OE2	1:AW:211:TYR:OH	2.39	0.41
1:AW:42:THR:O	1:AW:42:THR:CG2	2.69	0.41
1:AW:175:GLY:O	3:DY:176:VAL:HG12	2.21	0.41
1:AX:24:MET:O	1:AX:25:HIS:HB2	2.21	0.41
1:AX:38:PHE:CD2	1:AX:68:TRP:HB2	2.56	0.41
1:AX:112:PRO:CG	3:DU:223:PRO:HD3	2.50	0.41
1:AX:176:ALA:C	1:AX:178:THR:N	2.79	0.41
1:AX:219:TYR:CE2	3:DY:39:ARG:HD2	2.55	0.41
1:AY:38:PHE:CD2	1:AY:68:TRP:HB2	2.56	0.41
1:AY:224:ILE:HD11	3:DZ:89:TYR:CE1	2.55	0.41
1:AZ:191:HIS:HB2	1:AZ:192:PHE:H	1.71	0.41
1:Aa:38:PHE:CE2	1:Aa:68:TRP:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aa:55:HIS:O	1:Aa:194:SER:HA	2.21	0.41
1:Aa:82:LEU:HG	1:Aa:83:GLU:H	1.86	0.41
1:Aa:92:THR:HB	1:Aa:93:THR:H	1.62	0.41
1:Aa:143:VAL:H	3:Dd:14:PHE:CB	2.28	0.41
1:Aa:219:TYR:CE2	3:Dc:39:ARG:HD2	2.55	0.41
1:Aa:220:CYS:HA	1:Aa:221:PRO:HD2	1.82	0.41
1:Aa:242:ASN:ND2	1:An:108:PRO:O	2.54	0.41
1:Ab:38:PHE:CE2	1:Ab:68:TRP:HB2	2.56	0.41
1:Ab:49:THR:CG2	1:Ab:50:GLY:N	2.83	0.41
1:Ab:55:HIS:O	1:Ab:194:SER:HA	2.21	0.41
1:Ab:112:PRO:CG	3:D9:223:PRO:HD3	2.50	0.41
1:Ab:160:TYR:OH	1:Ab:167:VAL:HG23	2.21	0.41
1:Ac:24:MET:O	1:Ac:25:HIS:HB2	2.21	0.41
1:Ac:55:HIS:O	1:Ac:194:SER:HA	2.21	0.41
1:Ac:239:PHE:CD2	3:De:226:GLN:NE2	2.87	0.41
1:Ac:242:ASN:ND2	1:Ag:108:PRO:O	2.54	0.41
1:Ad:6:GLU:O	2:Cf:162:LEU:N	2.53	0.41
1:Ad:38:PHE:CD2	1:Ad:68:TRP:HB2	2.56	0.41
1:Ad:38:PHE:CE2	1:Ad:68:TRP:HB2	2.56	0.41
1:Ae:38:PHE:CD2	1:Ae:68:TRP:HB2	2.56	0.41
1:Ae:42:THR:O	1:Ae:42:THR:CG2	2.69	0.41
1:Ae:49:THR:CG2	1:Ae:50:GLY:N	2.83	0.41
1:Ae:108:PRO:O	1:Af:242:ASN:ND2	2.54	0.41
1:Ae:176:ALA:C	1:Ae:178:THR:N	2.79	0.41
1:Af:113:THR:HG22	1:Af:114:LYS:N	2.36	0.41
1:Af:184:TYR:HE2	2:Ch:139:ALA:HB3	1.84	0.41
1:Ag:48:LEU:O	1:Ag:131:GLN:HG2	2.20	0.41
1:Ag:55:HIS:O	1:Ag:194:SER:HA	2.21	0.41
1:Ag:72:LEU:O	1:Ag:75:CYS:SG	2.76	0.41
1:Ag:82:LEU:HG	1:Ag:83:GLU:H	1.86	0.41
1:Ag:113:THR:HG22	1:Ag:114:LYS:N	2.36	0.41
1:Ah:38:PHE:CD2	1:Ah:68:TRP:HB2	2.56	0.41
1:Ah:48:LEU:O	1:Ah:131:GLN:HG2	2.20	0.41
1:Ah:71:LEU:HD11	1:Al:138:MET:HE1	2.03	0.41
1:Ah:175:GLY:N	1:Ah:183:THR:O	2.52	0.41
1:Ah:242:ASN:ND2	1:Al:108:PRO:O	2.54	0.41
1:Ai:24:MET:O	1:Ai:25:HIS:HB2	2.21	0.41
1:Ai:55:HIS:O	1:Ai:194:SER:HA	2.21	0.41
1:Ai:87:GLN:O	1:Ai:88:PHE:CB	2.62	0.41
1:Ai:138:MET:HE1	1:Aj:71:LEU:HD11	2.03	0.41
1:Ai:174:TRP:CD1	1:Ai:184:TYR:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:175:GLY:N	1:Ai:183:THR:O	2.53	0.41
1:Aj:108:PRO:O	1:Ak:242:ASN:ND2	2.54	0.41
1:Aj:132:GLN:OE1	1:Ak:66:LEU:HD21	2.20	0.41
1:Aj:138:MET:HE1	1:Ak:71:LEU:HD11	2.02	0.41
1:Ak:6:GLU:O	2:Cm:162:LEU:N	2.53	0.41
1:Ak:55:HIS:O	1:Ak:194:SER:HA	2.21	0.41
1:Ak:82:LEU:HG	1:Ak:83:GLU:H	1.86	0.41
1:Ak:87:GLN:HA	1:Ak:153:ALA:HB2	2.02	0.41
1:Ak:174:TRP:CD1	1:Ak:184:TYR:HA	2.56	0.41
1:Al:6:GLU:O	2:Cn:162:LEU:N	2.53	0.41
1:Al:48:LEU:HA	1:Al:198:THR:OG1	2.20	0.41
1:Al:88:PHE:CA	1:Al:207:CYS:HA	2.48	0.41
1:Al:107:PHE:CE1	1:Al:196:LEU:HB2	2.55	0.41
1:Am:82:LEU:HG	1:Am:83:GLU:H	1.86	0.41
1:Am:138:MET:HE1	1:BA:71:LEU:HD11	2.03	0.41
1:Am:239:PHE:CD2	3:Do:226:GLN:NE2	2.87	0.41
1:An:82:LEU:HG	1:An:83:GLU:H	1.86	0.41
1:An:93:THR:O	1:An:95:SER:N	2.53	0.41
1:An:146:ILE:HG21	1:An:146:ILE:HD13	1.74	0.41
1:An:174:TRP:NE1	2:Cb:137:GLU:OE2	2.54	0.41
1:Ao:38:PHE:CD2	1:Ao:68:TRP:HB2	2.56	0.41
1:Ao:168:PRO:HB3	2:CS:180:PRO:HB3	2.03	0.41
1:Ao:172:ASN:HB2	2:CS:132:TYR:O	2.19	0.41
1:Ao:175:GLY:N	1:Ao:183:THR:O	2.52	0.41
1:Ao:176:ALA:C	1:Ao:178:THR:N	2.79	0.41
1:Ao:219:TYR:CE2	3:DS:39:ARG:HD2	2.55	0.41
1:BA:87:GLN:HA	1:BA:153:ALA:HB2	2.02	0.41
1:BA:107:PHE:CE1	1:BA:196:LEU:HB2	2.55	0.41
1:BA:113:THR:HG22	1:BA:114:LYS:N	2.36	0.41
1:BA:147:ALA:C	1:BA:149:SER:H	2.28	0.41
1:BA:160:TYR:OH	1:BA:167:VAL:HG23	2.21	0.41
1:BB:42:THR:O	1:BB:42:THR:CG2	2.69	0.41
1:BB:62:SER:HB2	1:BB:73:ASN:ND2	2.27	0.41
1:BB:113:THR:HG22	1:BB:114:LYS:N	2.36	0.41
1:BC:6:GLU:O	2:Cr:162:LEU:N	2.53	0.41
1:BC:24:MET:O	1:BC:25:HIS:HB2	2.21	0.41
1:BC:38:PHE:CD2	1:BC:68:TRP:HB2	2.56	0.41
1:BC:42:THR:O	1:BC:42:THR:CG2	2.69	0.41
1:BC:101:PHE:CD2	1:BC:143:VAL:HG11	2.44	0.41
1:BC:108:PRO:O	1:BD:242:ASN:ND2	2.54	0.41
1:BC:112:PRO:CG	3:Ds:223:PRO:HD3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:113:THR:HG22	1:BC:114:LYS:N	2.36	0.41
1:BC:121:LEU:HD21	1:BD:206:GLY:CA	2.47	0.41
1:BC:176:ALA:C	1:BC:178:THR:N	2.79	0.41
1:BD:175:GLY:O	3:Do:176:VAL:HG12	2.21	0.41
1:BD:176:ALA:C	1:BD:178:THR:N	2.79	0.41
1:BE:38:PHE:CD2	1:BE:68:TRP:HB2	2.56	0.41
1:BE:42:THR:O	1:BE:42:THR:CG2	2.69	0.41
1:BE:88:PHE:CA	1:BE:207:CYS:HA	2.48	0.41
1:BE:107:PHE:CE1	1:BE:196:LEU:HB2	2.55	0.41
1:BE:112:PRO:CG	3:EB:223:PRO:HD3	2.50	0.41
1:BE:138:MET:HE1	1:BF:71:LEU:HD11	2.02	0.41
1:BE:160:TYR:OH	1:BE:167:VAL:HG23	2.21	0.41
1:BE:188:PRO:HG3	3:EB:176:VAL:CG1	2.50	0.41
1:BF:138:MET:HE1	1:BG:71:LEU:HD11	2.02	0.41
1:BF:174:TRP:NE1	2:Cu:137:GLU:OE2	2.54	0.41
1:BF:175:GLY:O	3:EC:176:VAL:HG12	2.21	0.41
1:BG:108:PRO:O	1:BH:242:ASN:ND2	2.54	0.41
1:BH:175:GLY:N	1:BH:183:THR:O	2.52	0.41
1:BH:184:TYR:CE2	2:Cw:139:ALA:CB	3.03	0.41
1:BH:191:HIS:HB2	1:BH:192:PHE:H	1.71	0.41
1:BI:55:HIS:O	1:BI:194:SER:HA	2.21	0.41
1:BI:93:THR:O	1:BI:95:SER:N	2.53	0.41
1:BI:172:ASN:OD1	1:BI:184:TYR:OH	2.27	0.41
1:BI:224:ILE:CD1	3:EE:89:TYR:CE1	3.04	0.41
1:BI:239:PHE:CD2	3:EE:226:GLN:NE2	2.87	0.41
2:C0:58:LEU:HB3	2:C0:59:SER:H	1.65	0.41
2:C0:139:ALA:O	2:C0:140:LEU:HB2	2.21	0.41
2:C0:215:VAL:HG12	2:C0:216:ALA:N	2.36	0.41
2:C3:26:SER:O	2:C3:27:GLN:C	2.64	0.41
2:C3:68:GLU:O	2:C3:69:TRP:C	2.63	0.41
2:C3:69:TRP:HZ2	2:C3:198:ILE:HG23	1.85	0.41
2:C3:115:ASN:C	3:DU:119:LYS:NZ	2.77	0.41
2:C3:117:SER:HB3	3:DU:192:THR:CG2	2.47	0.41
2:C3:153:GLN:NE2	3:D3:53:PHE:O	2.50	0.41
2:C4:28:GLY:O	2:C4:168:ASN:HB2	2.21	0.41
2:C5:216:ALA:HA	2:C5:217:PRO:HD3	1.78	0.41
2:C7:26:SER:O	2:C7:27:GLN:C	2.64	0.41
2:C7:28:GLY:O	2:C7:168:ASN:HB2	2.21	0.41
2:C8:26:SER:C	3:D9:147:ASP:HB3	2.45	0.41
2:C8:153:GLN:HE22	3:D8:55:SER:N	2.19	0.41
2:C8:180:PRO:HD2	2:C8:189:HIS:HE1	1.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:23:ILE:N	2:C9:23:ILE:CD1	2.81	0.41
2:C9:152:TYR:HB3	2:C9:197:LEU:CD2	2.51	0.41
2:CA:26:SER:C	3:DW:147:ASP:HB3	2.45	0.41
2:CA:69:TRP:CZ3	2:CA:124:LEU:HD21	2.56	0.41
2:CB:28:GLY:O	2:CB:168:ASN:HB2	2.21	0.41
2:CB:46:THR:CG2	3:DC:165:ASP:HA	2.38	0.41
2:CB:139:ALA:O	2:CB:140:LEU:HB2	2.21	0.41
2:CB:152:TYR:HB3	2:CB:197:LEU:CD2	2.51	0.41
2:CC:103:LEU:HD21	3:DD:163:PRO:HD3	2.01	0.41
2:CD:26:SER:O	2:CD:27:GLN:C	2.64	0.41
2:CD:69:TRP:HZ2	2:CD:198:ILE:HG23	1.85	0.41
2:CD:83:LEU:HA	2:CD:84:PRO:HA	1.60	0.41
2:CD:153:GLN:HE22	3:DD:55:SER:N	2.19	0.41
2:CD:216:ALA:HA	2:CD:217:PRO:HD3	1.78	0.41
2:CE:28:GLY:O	2:CE:168:ASN:HB2	2.21	0.41
2:CE:69:TRP:CZ3	2:CE:124:LEU:HD21	2.56	0.41
2:CE:103:LEU:HD12	2:CE:223:ASN:HB2	2.02	0.41
2:CF:69:TRP:CZ3	2:CF:124:LEU:HD21	2.56	0.41
2:CG:28:GLY:O	2:CG:168:ASN:HB2	2.21	0.41
2:CG:69:TRP:CZ3	2:CG:124:LEU:HD21	2.56	0.41
2:CH:103:LEU:HD21	3:DI:163:PRO:HD3	2.01	0.41
2:CI:55:GLY:HA2	2:CI:56:PRO:HD3	1.80	0.41
2:CJ:58:LEU:HB3	2:CJ:59:SER:H	1.65	0.41
2:CJ:215:VAL:HG12	2:CJ:216:ALA:N	2.36	0.41
2:CK:36:TYR:CE2	2:CK:130:PRO:CG	2.98	0.41
2:CK:58:LEU:HB3	2:CK:59:SER:H	1.65	0.41
2:CK:88:LEU:C	2:CK:90:LYS:N	2.79	0.41
2:CK:215:VAL:HG12	2:CK:216:ALA:N	2.36	0.41
2:CL:68:GLU:O	2:CL:69:TRP:C	2.63	0.41
2:CM:117:SER:HB3	3:DI:192:THR:CG2	2.48	0.41
2:CN:55:GLY:HA2	2:CN:56:PRO:HD3	1.80	0.41
2:CN:115:ASN:C	3:D2:119:LYS:NZ	2.77	0.41
2:CO:135:THR:O	2:CO:137:GLU:N	2.53	0.41
2:CP:26:SER:C	3:D1:147:ASP:HB3	2.45	0.41
2:CP:69:TRP:CZ3	2:CP:124:LEU:HD21	2.56	0.41
2:CQ:23:ILE:N	2:CQ:23:ILE:CD1	2.81	0.41
2:CQ:28:GLY:O	2:CQ:168:ASN:HB2	2.21	0.41
2:CQ:153:GLN:HE22	3:DQ:55:SER:N	2.19	0.41
2:CR:26:SER:C	3:EE:147:ASP:HB3	2.45	0.41
2:CS:83:LEU:HA	2:CS:84:PRO:HA	1.60	0.41
2:CT:26:SER:C	3:DK:147:ASP:HB3	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:69:TRP:CZ3	2:CT:124:LEU:HD21	2.56	0.41
2:CT:215:VAL:HG12	2:CT:216:ALA:N	2.36	0.41
2:CU:139:ALA:O	2:CU:140:LEU:HB2	2.21	0.41
2:CV:152:TYR:HB3	2:CV:197:LEU:CD2	2.51	0.41
2:CV:215:VAL:HG12	2:CV:216:ALA:N	2.36	0.41
2:CW:28:GLY:O	2:CW:168:ASN:HB2	2.21	0.41
2:CW:57:THR:O	2:CW:58:LEU:CB	2.66	0.41
2:CW:69:TRP:CD1	2:CW:70:PRO:N	2.89	0.41
2:CW:69:TRP:HZ2	2:CW:198:ILE:HG23	1.85	0.41
2:CW:215:VAL:HG12	2:CW:216:ALA:N	2.36	0.41
2:CY:26:SER:O	2:CY:27:GLN:C	2.64	0.41
2:CY:135:THR:O	2:CY:137:GLU:N	2.53	0.41
2:CY:152:TYR:HB3	2:CY:197:LEU:CD2	2.51	0.41
2:CY:153:GLN:HE22	3:DY:55:SER:CB	2.33	0.41
2:Ca:149:ALA:O	2:Ca:152:TYR:CD2	2.74	0.41
2:Cb:26:SER:C	3:DT:147:ASP:HB3	2.45	0.41
2:Cb:28:GLY:O	2:Cb:168:ASN:HB2	2.21	0.41
2:Cb:88:LEU:C	2:Cb:90:LYS:N	2.79	0.41
2:Cb:115:ASN:C	3:DT:119:LYS:NZ	2.77	0.41
2:Cc:88:LEU:C	2:Cc:90:LYS:N	2.79	0.41
2:Cc:152:TYR:HB3	2:Cc:197:LEU:CD2	2.51	0.41
2:Cc:153:GLN:HE22	3:Dc:55:SER:CB	2.33	0.41
2:Cd:88:LEU:C	2:Cd:90:LYS:N	2.79	0.41
2:Cd:115:ASN:C	3:D4:119:LYS:NZ	2.77	0.41
2:Cd:152:TYR:HB3	2:Cd:197:LEU:CD2	2.51	0.41
2:Cd:215:VAL:HG12	2:Cd:216:ALA:N	2.36	0.41
2:Cd:216:ALA:HA	2:Cd:217:PRO:HD3	1.78	0.41
2:Ce:153:GLN:HE22	3:De:55:SER:CB	2.33	0.41
2:Ce:166:ARG:HD3	3:De:110:PHE:O	2.20	0.41
2:Ce:180:PRO:HD2	2:Ce:189:HIS:HE1	1.77	0.41
2:Ce:215:VAL:HG12	2:Ce:216:ALA:N	2.36	0.41
2:Cf:152:TYR:HB3	2:Cf:197:LEU:CD2	2.51	0.41
2:Cg:65:LYS:CB	3:D3:135:ARG:HH21	2.29	0.41
2:Cg:139:ALA:O	2:Cg:140:LEU:HB2	2.21	0.41
2:Cg:153:GLN:HE22	3:Dg:55:SER:N	2.19	0.41
2:Cg:215:VAL:HG12	2:Cg:216:ALA:N	2.36	0.41
2:Ch:215:VAL:HG12	2:Ch:216:ALA:N	2.36	0.41
2:Ci:69:TRP:CZ3	2:Ci:124:LEU:HD21	2.56	0.41
2:Ci:215:VAL:HG12	2:Ci:216:ALA:N	2.36	0.41
2:Cj:103:LEU:HD21	3:Dk:163:PRO:HD3	2.01	0.41
2:Cj:152:TYR:HB3	2:Cj:197:LEU:CD2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ck:26:SER:O	2:Ck:27:GLN:C	2.64	0.41
2:Ck:26:SER:C	3:Da:147:ASP:HB3	2.45	0.41
2:Ck:28:GLY:O	2:Ck:168:ASN:HB2	2.20	0.41
2:Ck:166:ARG:HD3	3:Dk:110:PHE:O	2.20	0.41
2:Cl:28:GLY:O	2:Cl:168:ASN:HB2	2.21	0.41
2:Cl:153:GLN:HE22	3:Dl:55:SER:CB	2.33	0.41
2:Cm:88:LEU:C	2:Cm:90:LYS:N	2.79	0.41
2:Cm:152:TYR:HB3	2:Cm:197:LEU:CD2	2.51	0.41
2:Cm:215:VAL:HG12	2:Cm:216:ALA:N	2.36	0.41
2:Co:26:SER:C	3:DR:147:ASP:HB3	2.45	0.41
2:Co:149:ALA:O	2:Co:152:TYR:CD2	2.74	0.41
2:Co:152:TYR:HB3	2:Co:197:LEU:CD2	2.51	0.41
2:Co:215:VAL:HG12	2:Co:216:ALA:N	2.36	0.41
2:Cp:26:SER:C	3:D0:147:ASP:HB3	2.45	0.41
2:Cq:49:ASP:HA	2:Cq:50:PRO:HD2	1.81	0.41
2:Cq:68:GLU:O	2:Cq:69:TRP:C	2.63	0.41
2:Cq:153:GLN:HE22	3:Dq:55:SER:CB	2.33	0.41
2:Cr:26:SER:O	2:Cr:27:GLN:C	2.64	0.41
2:Cr:69:TRP:CD1	2:Cr:70:PRO:N	2.89	0.41
2:Cr:103:LEU:HD21	3:Ds:163:PRO:HD3	2.01	0.41
2:Cr:139:ALA:O	2:Cr:140:LEU:HB2	2.21	0.41
2:Ct:103:LEU:HD21	3:EB:163:PRO:HD3	2.01	0.41
2:Ct:139:ALA:O	2:Ct:140:LEU:HB2	2.21	0.41
2:Cu:88:LEU:C	2:Cu:90:LYS:N	2.79	0.41
2:Cu:153:GLN:HE22	3:EB:55:SER:CB	2.33	0.41
2:Cv:103:LEU:HD12	2:Cv:223:ASN:HB2	2.03	0.41
2:Cv:215:VAL:HG12	2:Cv:216:ALA:N	2.36	0.41
2:Cw:28:GLY:O	2:Cw:168:ASN:HB2	2.20	0.41
2:Cw:134:HIS:HB3	2:Cw:135:THR:H	1.46	0.41
2:Cw:139:ALA:O	2:Cw:140:LEU:HB2	2.21	0.41
2:Cx:69:TRP:CZ3	2:Cx:124:LEU:HD21	2.56	0.41
2:Cx:153:GLN:HE22	3:EE:55:SER:N	2.19	0.41
3:D0:79:SER:O	3:D0:81:SER:N	2.51	0.41
3:D0:100:TYR:CD2	3:D0:100:TYR:C	2.99	0.41
3:D1:100:TYR:CD2	3:D1:100:TYR:C	2.99	0.41
3:D1:113:ALA:HB2	3:D1:199:ASN:CG	2.46	0.41
3:D2:31:VAL:CB	4:F2:34:ILE:O	2.69	0.41
3:D2:100:TYR:HA	3:D2:215:SER:O	2.21	0.41
3:D2:152:SER:O	3:D2:153:ALA:HB2	2.20	0.41
3:D3:64:VAL:HG13	3:D3:120:PHE:HE1	1.86	0.41
3:D4:9:PRO:HD3	3:D8:13:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D4:119:LYS:HG2	3:D4:147:ASP:CG	2.45	0.41
3:D6:31:VAL:CB	4:F6:34:ILE:O	2.69	0.41
3:D6:47:ALA:HB2	3:D6:89:TYR:CD2	2.56	0.41
3:D7:47:ALA:HB2	3:D7:89:TYR:CD2	2.56	0.41
3:D7:54:CYS:SG	3:D7:208:VAL:HG21	2.61	0.41
3:D7:100:TYR:CD1	3:D7:100:TYR:C	2.99	0.41
3:D7:119:LYS:HG2	3:D7:147:ASP:CG	2.45	0.41
3:D8:8:VAL:CG1	3:D8:9:PRO:HD2	2.40	0.41
3:D8:113:ALA:HB2	3:D8:199:ASN:CG	2.46	0.41
3:D9:31:VAL:CB	4:F9:34:ILE:O	2.69	0.41
3:D9:47:ALA:HB2	3:D9:89:TYR:CD2	2.56	0.41
3:D9:100:TYR:HA	3:D9:215:SER:O	2.21	0.41
3:D9:168:ALA:C	3:D9:170:TYR:H	2.29	0.41
3:DA:31:VAL:CB	4:FA:34:ILE:O	2.69	0.41
3:DA:64:VAL:HG13	3:DA:120:PHE:HE1	1.85	0.41
3:DA:84:GLU:C	3:DA:86:HIS:H	2.28	0.41
3:DA:100:TYR:HA	3:DA:215:SER:O	2.21	0.41
3:DA:113:ALA:HB2	3:DA:199:ASN:CG	2.46	0.41
3:DA:120:PHE:HD2	3:DA:146:TRP:CZ2	2.38	0.41
3:DB:47:ALA:HB2	3:DB:89:TYR:CD2	2.56	0.41
3:DB:152:SER:O	3:DB:153:ALA:HB2	2.21	0.41
3:DD:113:ALA:HB2	3:DD:199:ASN:CG	2.46	0.41
3:DD:152:SER:O	3:DD:153:ALA:HB2	2.21	0.41
3:DD:175:THR:HG1	3:DD:178:ASN:CG	2.28	0.41
3:DE:54:CYS:SG	3:DE:208:VAL:HG21	2.61	0.41
3:DE:113:ALA:HB2	3:DE:199:ASN:CG	2.46	0.41
3:DF:47:ALA:HB2	3:DF:89:TYR:CD2	2.56	0.41
3:DG:31:VAL:CB	4:FG:34:ILE:O	2.69	0.41
3:DG:168:ALA:C	3:DG:170:TYR:H	2.29	0.41
3:DI:113:ALA:HB2	3:DI:199:ASN:CG	2.46	0.41
3:DJ:47:ALA:HB2	3:DJ:89:TYR:CD2	2.56	0.41
3:DJ:100:TYR:HA	3:DJ:215:SER:O	2.21	0.41
3:DJ:113:ALA:HB2	3:DJ:199:ASN:CG	2.46	0.41
3:DK:54:CYS:SG	3:DK:208:VAL:HG21	2.61	0.41
3:DK:121:LEU:C	3:DK:121:LEU:CD2	2.89	0.41
3:DL:47:ALA:HB2	3:DL:89:TYR:CD2	2.56	0.41
3:DL:64:VAL:HG13	3:DL:120:PHE:HE1	1.86	0.41
3:DL:115:ALA:CB	3:DL:194:THR:OG1	2.67	0.41
3:DL:119:LYS:HG2	3:DL:147:ASP:CG	2.45	0.41
3:DM:31:VAL:CB	4:FM:34:ILE:O	2.69	0.41
3:DM:152:SER:O	3:DM:153:ALA:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DN:54:CYS:SG	3:DN:208:VAL:HG21	2.61	0.41
3:DN:64:VAL:HG13	3:DN:120:PHE:HE1	1.85	0.41
3:DN:86:HIS:ND1	3:DN:86:HIS:C	2.77	0.41
3:DN:119:LYS:HG2	3:DN:147:ASP:CG	2.45	0.41
3:DO:47:ALA:HB2	3:DO:89:TYR:CD2	2.56	0.41
3:DO:64:VAL:HG13	3:DO:120:PHE:HE1	1.85	0.41
3:DO:100:TYR:HA	3:DO:215:SER:O	2.21	0.41
3:DO:121:LEU:C	3:DO:121:LEU:CD2	2.89	0.41
3:DP:9:PRO:HD3	3:DT:13:SER:O	2.20	0.41
3:DP:115:ALA:CB	3:DP:194:THR:OG1	2.67	0.41
3:DP:121:LEU:C	3:DP:121:LEU:CD2	2.89	0.41
3:DQ:119:LYS:HG2	3:DQ:147:ASP:CG	2.45	0.41
3:DR:31:VAL:CB	4:FR:34:ILE:O	2.69	0.41
3:DR:54:CYS:SG	3:DR:208:VAL:HG21	2.61	0.41
3:DS:64:VAL:HG13	3:DS:120:PHE:HE1	1.86	0.41
3:DS:120:PHE:HD2	3:DS:146:TRP:CZ2	2.38	0.41
3:DT:31:VAL:CB	4:FT:34:ILE:O	2.69	0.41
3:DT:84:GLU:CD	3:DT:84:GLU:N	2.79	0.41
3:DT:103:SER:OG	3:DT:213:ASP:OD2	2.39	0.41
3:DU:27:PRO:CB	4:FU:30:TYR:HA	2.50	0.41
3:DU:84:GLU:N	3:DU:84:GLU:CD	2.79	0.41
3:DU:120:PHE:HD2	3:DU:146:TRP:CZ2	2.38	0.41
3:DV:13:SER:O	3:DW:9:PRO:HD3	2.20	0.41
3:DV:103:SER:OG	3:DV:213:ASP:OD2	2.39	0.41
3:DW:100:TYR:CD2	3:DW:100:TYR:C	2.99	0.41
3:DW:100:TYR:HA	3:DW:215:SER:O	2.21	0.41
3:DX:103:SER:HB3	3:DX:159:PRO:CA	2.35	0.41
3:DX:168:ALA:C	3:DX:170:TYR:H	2.29	0.41
3:DY:54:CYS:SG	3:DY:208:VAL:HG21	2.61	0.41
3:Da:100:TYR:HA	3:Da:215:SER:O	2.21	0.41
3:Da:113:ALA:HB2	3:Da:199:ASN:CG	2.46	0.41
3:Db:100:TYR:HA	3:Db:215:SER:O	2.21	0.41
3:Dd:84:GLU:CD	3:Dd:84:GLU:N	2.79	0.41
3:Dd:120:PHE:HD2	3:Dd:146:TRP:CZ2	2.38	0.41
3:Dd:168:ALA:C	3:Dd:170:TYR:H	2.29	0.41
3:De:13:SER:O	3:Df:9:PRO:HD3	2.20	0.41
3:De:31:VAL:CB	4:Fe:34:ILE:O	2.69	0.41
3:De:86:HIS:ND1	3:De:86:HIS:C	2.77	0.41
3:De:103:SER:OG	3:De:213:ASP:OD2	2.39	0.41
3:De:152:SER:O	3:De:153:ALA:HB2	2.21	0.41
3:Df:47:ALA:HB2	3:Df:89:TYR:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Df:53:PHE:CD1	3:Df:53:PHE:N	2.88	0.41
3:Df:84:GLU:CD	3:Df:84:GLU:N	2.79	0.41
3:Df:86:HIS:ND1	3:Df:86:HIS:C	2.76	0.41
3:Df:103:SER:HB2	3:Df:159:PRO:HA	1.95	0.41
3:Dg:115:ALA:CB	3:Dg:194:THR:OG1	2.67	0.41
3:Dh:168:ALA:C	3:Dh:170:TYR:H	2.29	0.41
3:Di:54:CYS:SG	3:Di:208:VAL:HG21	2.61	0.41
3:Di:103:SER:OG	3:Di:213:ASP:OD2	2.39	0.41
3:Di:121:LEU:C	3:Di:121:LEU:CD2	2.89	0.41
3:Dj:47:ALA:HB2	3:Dj:89:TYR:CD2	2.56	0.41
3:Dj:113:ALA:HB2	3:Dj:199:ASN:CG	2.46	0.41
3:Dj:168:ALA:C	3:Dj:170:TYR:H	2.29	0.41
3:Dk:47:ALA:HB2	3:Dk:89:TYR:CD2	2.56	0.41
3:Dk:54:CYS:SG	3:Dk:208:VAL:HG21	2.61	0.41
3:Dk:84:GLU:CD	3:Dk:84:GLU:N	2.79	0.41
3:Dk:100:TYR:HA	3:Dk:215:SER:O	2.21	0.41
3:Dl:103:SER:OG	3:Dl:213:ASP:OD2	2.39	0.41
3:Dm:79:SER:O	3:Dm:81:SER:N	2.51	0.41
3:Dn:31:VAL:CB	4:Fh:34:ILE:O	2.69	0.41
3:Dn:54:CYS:SG	3:Dn:208:VAL:HG21	2.61	0.41
3:Dn:64:VAL:HG13	3:Dn:120:PHE:HE1	1.86	0.41
3:Dn:100:TYR:HA	3:Dn:215:SER:O	2.21	0.41
3:Do:64:VAL:HG13	3:Do:120:PHE:HE1	1.85	0.41
3:Do:103:SER:OG	3:Do:213:ASP:OD2	2.39	0.41
3:Do:120:PHE:HD2	3:Do:146:TRP:CZ2	2.38	0.41
3:Dp:64:VAL:HG13	3:Dp:120:PHE:HE1	1.86	0.41
3:Dp:100:TYR:HA	3:Dp:215:SER:O	2.21	0.41
3:Dp:120:PHE:HD2	3:Dp:146:TRP:CZ2	2.38	0.41
3:Dq:47:ALA:HB2	3:Dq:89:TYR:CD2	2.56	0.41
3:Dq:101:ARG:HH12	3:Dq:165:ASP:HB3	1.84	0.41
3:Dr:31:VAL:CB	4:Fr:34:ILE:O	2.69	0.41
3:Dr:103:SER:OG	3:Dr:213:ASP:OD2	2.39	0.41
3:Ds:27:PRO:CB	4:Fh:30:TYR:HA	2.51	0.41
3:Ds:54:CYS:SG	3:Ds:208:VAL:HG21	2.61	0.41
3:Ds:84:GLU:CD	3:Ds:84:GLU:N	2.79	0.41
3:Ds:120:PHE:HD2	3:Ds:146:TRP:CZ2	2.38	0.41
3:EA:53:PHE:N	3:EA:53:PHE:CD1	2.88	0.41
3:EB:31:VAL:CB	4:Fu:34:ILE:O	2.69	0.41
3:EB:168:ALA:C	3:EB:170:TYR:H	2.29	0.41
3:EC:64:VAL:HG13	3:EC:120:PHE:HE1	1.86	0.41
3:EC:103:SER:OG	3:EC:213:ASP:OD2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:119:LYS:HG2	3:EC:147:ASP:CG	2.45	0.41
3:EC:168:ALA:C	3:EC:170:TYR:H	2.29	0.41
3:ED:79:SER:O	3:ED:81:SER:N	2.51	0.41
3:ED:120:PHE:HD2	3:ED:146:TRP:CZ2	2.38	0.41
3:EE:31:VAL:CB	4:Fx:34:ILE:O	2.69	0.41
3:EE:86:HIS:ND1	3:EE:86:HIS:C	2.77	0.41
3:EE:100:TYR:HA	3:EE:215:SER:O	2.21	0.41
3:EE:103:SER:OG	3:EE:213:ASP:OD2	2.39	0.41
3:EE:115:ALA:CB	3:EE:194:THR:OG1	2.67	0.41
4:FB:31:GLN:HE21	4:FB:31:GLN:HA	1.85	0.41
4:FD:31:GLN:HE21	4:FD:31:GLN:HA	1.85	0.41
4:FG:29:GLN:HB2	4:FG:30:TYR:HD1	1.84	0.41
4:FU:31:GLN:HA	4:FU:31:GLN:HE21	1.85	0.41
4:Fg:32:ASN:HB3	4:Fg:33:SER:H	1.58	0.41
4:Fi:21:ILE:HG22	4:Fi:21:ILE:O	2.20	0.41
4:Fl:29:GLN:HB2	4:Fl:30:TYR:HD1	1.84	0.41
4:Fm:29:GLN:HB2	4:Fm:30:TYR:HD1	1.84	0.41
4:Fv:31:GLN:HA	4:Fv:31:GLN:HE21	1.85	0.41
4:Fv:32:ASN:HB3	4:Fv:33:SER:H	1.58	0.41
1:A0:38:PHE:CE2	1:A0:68:TRP:HB2	2.56	0.41
1:A0:110:GLY:O	1:A1:241:THR:CG2	2.69	0.41
1:A1:48:LEU:HA	1:A1:198:THR:OG1	2.20	0.41
1:A1:132:GLN:OE1	1:A2:66:LEU:HD21	2.20	0.41
1:A1:184:TYR:HE2	2:C2:139:ALA:HB3	1.84	0.41
1:A2:224:ILE:CD1	3:D3:89:TYR:CE1	3.04	0.41
1:A3:42:THR:O	1:A3:42:THR:CG2	2.69	0.41
1:A3:79:PHE:CE2	1:A3:160:TYR:CD2	3.08	0.41
1:A3:224:ILE:CD1	3:D4:89:TYR:CE1	3.04	0.41
1:A5:38:PHE:CE2	1:A5:68:TRP:HB2	2.56	0.41
1:A5:107:PHE:CE1	1:A5:196:LEU:HB2	2.55	0.41
1:A5:144:PHE:C	1:A5:144:PHE:CD1	2.99	0.41
1:A5:184:TYR:HE2	2:C6:139:ALA:HB2	1.86	0.41
1:A6:108:PRO:O	1:A7:242:ASN:ND2	2.54	0.41
1:A6:138:MET:HE1	1:A7:71:LEU:HD11	2.02	0.41
1:A6:140:PRO:HB3	3:D7:25:LEU:HB3	2.03	0.41
1:A7:144:PHE:C	1:A7:144:PHE:CD1	2.99	0.41
1:A7:184:TYR:CE2	2:C8:139:ALA:CB	3.03	0.41
1:A7:224:ILE:CD1	3:D8:89:TYR:CE1	3.04	0.41
1:A8:55:HIS:O	1:A8:194:SER:HA	2.21	0.41
1:A8:174:TRP:CD1	1:A8:184:TYR:HA	2.56	0.41
1:A9:174:TRP:NE1	2:Ca:137:GLU:OE2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:144:PHE:CD1	1:AA:144:PHE:C	2.99	0.41
1:AA:184:TYR:CE2	2:CA:139:ALA:CB	3.03	0.41
1:AB:224:ILE:HA	1:AB:225:PRO:HD2	1.86	0.41
1:AC:48:LEU:O	1:AC:131:GLN:HG2	2.21	0.41
1:AC:139:SER:HA	1:AC:140:PRO:HD3	1.62	0.41
1:AC:168:PRO:HB3	2:CC:180:PRO:HB3	2.03	0.41
1:AD:140:PRO:HB3	3:DD:25:LEU:HB3	2.03	0.41
1:AE:82:LEU:HG	1:AE:83:GLU:H	1.86	0.41
1:AE:87:GLN:O	1:AE:88:PHE:CB	2.62	0.41
1:AE:160:TYR:OH	1:AE:167:VAL:HG23	2.21	0.41
1:AE:224:ILE:CD1	3:DE:89:TYR:CE1	3.04	0.41
1:AF:71:LEU:HD11	1:AJ:138:MET:HE1	2.02	0.41
1:AF:101:PHE:CD2	1:AF:143:VAL:CG1	2.91	0.41
1:AF:224:ILE:CD1	3:DF:89:TYR:CE1	3.04	0.41
1:AG:55:HIS:O	1:AG:194:SER:HA	2.21	0.41
1:AG:160:TYR:OH	1:AG:167:VAL:HG23	2.21	0.41
1:AG:174:TRP:CD1	1:AG:184:TYR:HA	2.56	0.41
1:AG:184:TYR:HE2	2:CG:139:ALA:HB2	1.86	0.41
1:AH:38:PHE:CE2	1:AH:68:TRP:HB2	2.56	0.41
1:AH:75:CYS:CB	1:AH:218:MET:SD	3.03	0.41
1:AH:87:GLN:HA	1:AH:153:ALA:HB2	2.02	0.41
1:AH:160:TYR:OH	1:AH:167:VAL:HG23	2.21	0.41
1:AH:174:TRP:CD1	1:AH:184:TYR:HA	2.56	0.41
1:AH:176:ALA:C	1:AH:178:THR:N	2.79	0.41
1:AI:184:TYR:CE2	2:CI:139:ALA:CB	3.03	0.41
1:AI:224:ILE:CD1	3:DI:89:TYR:CE1	3.04	0.41
1:AJ:38:PHE:CE2	1:AJ:68:TRP:HB2	2.56	0.41
1:AJ:160:TYR:OH	1:AJ:167:VAL:HG23	2.21	0.41
1:AJ:184:TYR:CE2	2:CJ:139:ALA:CB	3.03	0.41
1:AK:160:TYR:OH	1:AK:167:VAL:HG23	2.21	0.41
1:AM:82:LEU:HG	1:AM:83:GLU:H	1.86	0.41
1:AN:24:MET:O	1:AN:25:HIS:HB2	2.21	0.41
1:AN:38:PHE:CE2	1:AN:68:TRP:HB2	2.56	0.41
1:AN:87:GLN:HA	1:AN:153:ALA:HB2	2.02	0.41
1:AN:144:PHE:CD1	1:AN:144:PHE:C	2.99	0.41
1:AO:140:PRO:HB3	3:DO:25:LEU:HB3	2.03	0.41
1:AP:41:GLU:OE2	1:AP:211:TYR:OH	2.39	0.41
1:AP:138:MET:HE1	1:AQ:71:LEU:HD11	2.02	0.41
1:AQ:82:LEU:HG	1:AQ:83:GLU:H	1.86	0.41
1:AQ:219:TYR:CE2	3:DQ:39:ARG:HD2	2.55	0.41
1:AR:49:THR:CG2	1:AR:50:GLY:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:107:PHE:CE1	1:AR:196:LEU:HB2	2.55	0.41
1:AS:160:TYR:OH	1:AS:167:VAL:HG23	2.21	0.41
1:AS:168:PRO:HB3	2:CT:180:PRO:HB3	2.03	0.41
1:AT:79:PHE:CE2	1:AT:160:TYR:CD2	3.08	0.41
1:AT:174:TRP:CD1	1:AT:184:TYR:HA	2.56	0.41
1:AV:144:PHE:CD1	1:AV:144:PHE:C	2.99	0.41
1:AV:176:ALA:C	1:AV:178:THR:N	2.79	0.41
1:AV:184:TYR:HE2	2:CW:139:ALA:HB2	1.86	0.41
1:AW:93:THR:O	1:AW:95:SER:N	2.53	0.41
1:AW:139:SER:HA	1:AW:140:PRO:HD3	1.62	0.41
1:AW:144:PHE:C	1:AW:144:PHE:CD1	2.99	0.41
1:AX:224:ILE:HD11	3:DY:89:TYR:CE1	2.55	0.41
1:AX:224:ILE:CD1	3:DY:89:TYR:CE1	3.04	0.41
1:AY:40:VAL:HG13	1:AY:211:TYR:HD1	1.86	0.41
1:AY:174:TRP:CD1	1:AY:184:TYR:HA	2.56	0.41
1:AY:234:LYS:HA	1:AY:234:LYS:HD3	1.89	0.41
1:AZ:221:PRO:HA	3:D0:40:PHE:HE2	1.86	0.41
1:AZ:224:ILE:HD11	3:D0:89:TYR:CE1	2.55	0.41
1:Aa:110:GLY:O	1:Ab:241:THR:CG2	2.69	0.41
1:Aa:139:SER:HA	1:Aa:140:PRO:HD3	1.62	0.41
1:Aa:184:TYR:CE2	2:Cc:139:ALA:CB	3.03	0.41
1:Ab:38:PHE:CD2	1:Ab:68:TRP:HB2	2.56	0.41
1:Ab:144:PHE:CD1	1:Ab:144:PHE:C	2.99	0.41
1:Ab:176:ALA:C	1:Ab:178:THR:N	2.79	0.41
1:Ac:38:PHE:CE2	1:Ac:68:TRP:HB2	2.56	0.41
1:Ac:108:PRO:O	1:Ad:242:ASN:ND2	2.54	0.41
1:Ad:160:TYR:OH	1:Ad:167:VAL:HG23	2.21	0.41
1:Ae:24:MET:O	1:Ae:25:HIS:HB2	2.21	0.41
1:Ae:132:GLN:OE1	1:Af:66:LEU:HD21	2.20	0.41
1:Ae:144:PHE:C	1:Ae:144:PHE:CD1	2.99	0.41
1:Af:82:LEU:HG	1:Af:83:GLU:H	1.86	0.41
1:Af:174:TRP:NE1	2:Ch:137:GLU:OE2	2.54	0.41
1:Af:224:ILE:HA	1:Af:225:PRO:HD2	1.86	0.41
1:Ag:24:MET:O	1:Ag:25:HIS:HB2	2.21	0.41
1:Ag:38:PHE:CD2	1:Ag:68:TRP:HB2	2.56	0.41
1:Ag:107:PHE:CE1	1:Ag:196:LEU:HB2	2.55	0.41
1:Ag:234:LYS:HA	1:Ag:234:LYS:HD3	1.89	0.41
1:Ah:6:GLU:O	2:Cj:162:LEU:N	2.53	0.41
1:Ah:49:THR:CG2	1:Ah:50:GLY:N	2.83	0.41
1:Ah:66:LEU:HD21	1:Al:132:GLN:OE1	2.20	0.41
1:Ah:176:ALA:C	1:Ah:178:THR:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:241:THR:CG2	1:Al:110:GLY:O	2.69	0.41
1:Ai:175:GLY:O	3:Dl:176:VAL:HG12	2.21	0.41
1:Aj:137:GLY:HA2	1:Ak:38:PHE:CD1	2.49	0.41
1:Ak:42:THR:O	1:Ak:42:THR:CG2	2.69	0.41
1:Al:168:PRO:HB3	2:Cn:180:PRO:HB3	2.03	0.41
1:Al:239:PHE:CD2	3:Dn:226:GLN:NE2	2.87	0.41
1:Am:6:GLU:O	2:Co:162:LEU:N	2.54	0.41
1:Am:24:MET:O	1:Am:25:HIS:HB2	2.21	0.41
1:Am:40:VAL:HG13	1:Am:211:TYR:HD1	1.86	0.41
1:Am:140:PRO:HB3	3:Do:25:LEU:HB3	2.03	0.41
1:Am:144:PHE:C	1:Am:144:PHE:CD1	2.99	0.41
1:Am:175:GLY:N	1:Am:183:THR:O	2.52	0.41
1:An:38:PHE:CD2	1:An:68:TRP:HB2	2.56	0.41
1:An:55:HIS:O	1:An:194:SER:HA	2.21	0.41
1:Ao:164:TRP:HE1	1:Ao:187:LEU:CD1	2.28	0.41
1:BA:38:PHE:CE2	1:BA:68:TRP:HB2	2.56	0.41
1:BA:108:PRO:O	1:BB:242:ASN:ND2	2.54	0.41
1:BA:175:GLY:O	3:Dq:176:VAL:HG12	2.21	0.41
1:BB:24:MET:O	1:BB:25:HIS:HB2	2.21	0.41
1:BB:38:PHE:CE2	1:BB:68:TRP:HB2	2.56	0.41
1:BC:20:SER:HA	1:BC:21:PRO:HD3	1.92	0.41
1:BC:243:ILE:H	1:BC:243:ILE:HG13	1.70	0.41
1:BD:41:GLU:OE2	1:BD:211:TYR:OH	2.39	0.41
1:BD:174:TRP:CD1	1:BD:184:TYR:HA	2.56	0.41
1:BD:225:PRO:HA	1:BD:226:PRO:HD2	1.88	0.41
1:BE:48:LEU:O	1:BE:131:GLN:HG2	2.20	0.41
1:BE:113:THR:HG22	1:BE:114:LYS:N	2.36	0.41
1:BF:168:PRO:HB3	2:Cu:180:PRO:HB3	2.03	0.41
1:BG:41:GLU:OE2	1:BG:211:TYR:OH	2.39	0.41
1:BG:224:ILE:HD11	3:EC:89:TYR:CE1	2.55	0.41
1:BH:113:THR:HG22	1:BH:114:LYS:N	2.36	0.41
1:BH:160:TYR:OH	1:BH:167:VAL:HG23	2.21	0.41
1:BH:175:GLY:O	3:EE:176:VAL:HG12	2.21	0.41
1:BI:38:PHE:CE2	1:BI:68:TRP:HB2	2.56	0.41
1:BI:40:VAL:HG13	1:BI:211:TYR:HD1	1.86	0.41
1:BI:82:LEU:HG	1:BI:83:GLU:H	1.86	0.41
2:C0:77:HIS:HE1	2:C0:144:GLU:HG2	1.84	0.41
2:C0:117:SER:HB3	3:DQ:192:THR:CG2	2.48	0.41
2:C0:166:ARG:HD3	3:D0:110:PHE:O	2.20	0.41
2:C3:180:PRO:HD2	2:C3:189:HIS:HE1	1.77	0.41
2:C4:103:LEU:HD12	2:C4:223:ASN:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:88:LEU:C	2:C6:90:LYS:N	2.79	0.41
2:C7:69:TRP:CZ3	2:C7:124:LEU:HD21	2.56	0.41
2:C8:215:VAL:HG12	2:C8:216:ALA:N	2.36	0.41
2:C9:54:LEU:HD23	2:C9:54:LEU:HA	1.84	0.41
2:CA:28:GLY:O	2:CA:168:ASN:HB2	2.21	0.41
2:CA:153:GLN:NE2	3:DA:53:PHE:O	2.50	0.41
2:CB:26:SER:O	2:CB:27:GLN:C	2.64	0.41
2:CD:69:TRP:CZ3	2:CD:124:LEU:HD21	2.56	0.41
2:CD:215:VAL:HG12	2:CD:216:ALA:N	2.36	0.41
2:CF:26:SER:C	3:D6:147:ASP:HB3	2.45	0.41
2:CF:49:ASP:HA	2:CF:50:PRO:HD2	1.80	0.41
2:CG:68:GLU:O	2:CG:69:TRP:C	2.63	0.41
2:CG:152:TYR:HB3	2:CG:197:LEU:CD2	2.51	0.41
2:CG:153:GLN:HE22	3:DG:55:SER:CB	2.33	0.41
2:CI:149:ALA:O	2:CI:152:TYR:CD2	2.74	0.41
2:CI:208:THR:O	2:CI:209:VAL:CG2	2.69	0.41
2:CJ:56:PRO:C	2:CJ:57:THR:O	2.59	0.41
2:CJ:135:THR:HB	2:CJ:139:ALA:CB	2.50	0.41
2:CL:152:TYR:HB3	2:CL:197:LEU:CD2	2.51	0.41
2:CL:215:VAL:HG12	2:CL:216:ALA:N	2.36	0.41
2:CM:215:VAL:HG12	2:CM:216:ALA:N	2.36	0.41
2:CO:77:HIS:HE1	2:CO:144:GLU:HG2	1.84	0.41
2:CP:55:GLY:HA2	2:CP:56:PRO:HD3	1.80	0.41
2:CQ:15:GLU:CB	2:CQ:29:SER:HB2	2.52	0.41
2:CQ:42:ARG:HA	2:CQ:43:PRO:HD2	1.64	0.41
2:CS:139:ALA:O	2:CS:140:LEU:HB2	2.21	0.41
2:CT:152:TYR:HB3	2:CT:197:LEU:CD2	2.51	0.41
2:CU:68:GLU:O	2:CU:69:TRP:C	2.63	0.41
2:CU:103:LEU:HD12	2:CU:223:ASN:HB2	2.02	0.41
2:CU:153:GLN:HE22	3:DU:55:SER:CB	2.33	0.41
2:CU:215:VAL:HG12	2:CU:216:ALA:N	2.36	0.41
2:CV:153:GLN:HE22	3:DV:55:SER:CB	2.33	0.41
2:CW:139:ALA:O	2:CW:140:LEU:HB2	2.21	0.41
2:CW:160:HIS:ND1	2:CW:160:HIS:N	2.69	0.41
2:CX:153:GLN:NE2	3:DX:53:PHE:O	2.50	0.41
2:Cc:215:VAL:HG12	2:Cc:216:ALA:N	2.36	0.41
2:Cd:28:GLY:O	2:Cd:168:ASN:HB2	2.21	0.41
2:Cd:149:ALA:O	2:Cd:152:TYR:CD2	2.74	0.41
2:Cd:208:THR:O	2:Cd:209:VAL:CG2	2.69	0.41
2:Ce:88:LEU:C	2:Ce:90:LYS:N	2.79	0.41
2:Ce:103:LEU:HD12	2:Ce:223:ASN:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ce:152:TYR:HB3	2:Ce:197:LEU:CD2	2.51	0.41
2:Ch:55:GLY:HA2	2:Ch:56:PRO:HD3	1.80	0.41
2:Ch:57:THR:O	2:Ch:58:LEU:CB	2.66	0.41
2:Cj:69:TRP:CZ3	2:Cj:124:LEU:HD21	2.56	0.41
2:Cj:69:TRP:CD1	2:Cj:70:PRO:N	2.89	0.41
2:Ck:218:ILE:HD13	2:Ck:218:ILE:HG21	1.90	0.41
2:Cl:216:ALA:HA	2:Cl:217:PRO:HD3	1.78	0.41
2:Cm:20:GLY:CA	2:Cm:56:PRO:O	2.67	0.41
2:Cm:26:SER:O	2:Cm:27:GLN:C	2.64	0.41
2:Cn:26:SER:C	3:De:147:ASP:HB3	2.45	0.41
2:Cn:149:ALA:O	2:Cn:152:TYR:CD2	2.74	0.41
2:Cn:152:TYR:HB3	2:Cn:197:LEU:CD2	2.51	0.41
2:Cs:26:SER:O	2:Cs:27:GLN:C	2.64	0.41
2:Cs:152:TYR:HB3	2:Cs:197:LEU:CD2	2.51	0.41
2:Cu:26:SER:O	2:Cu:27:GLN:C	2.64	0.41
2:Cu:103:LEU:HD12	2:Cu:223:ASN:HB2	2.02	0.41
2:Cu:103:LEU:HD21	3:EC:163:PRO:HD3	2.01	0.41
2:Cw:68:GLU:O	2:Cw:69:TRP:C	2.63	0.41
2:Cx:215:VAL:HG12	2:Cx:216:ALA:N	2.36	0.41
3:D0:47:ALA:HB2	3:D0:89:TYR:CD2	2.56	0.41
3:D0:103:SER:OG	3:D0:213:ASP:OD2	2.39	0.41
3:D1:152:SER:O	3:D1:153:ALA:HB2	2.21	0.41
3:D2:27:PRO:CB	4:F2:30:TYR:HA	2.51	0.41
3:D2:79:SER:O	3:D2:81:SER:N	2.51	0.41
3:D3:27:PRO:CB	4:F3:30:TYR:HA	2.51	0.41
3:D3:54:CYS:SG	3:D3:208:VAL:HG21	2.61	0.41
3:D6:115:ALA:CB	3:D6:194:THR:OG1	2.67	0.41
3:D8:47:ALA:HB2	3:D8:89:TYR:CD2	2.56	0.41
3:D8:169:VAL:O	3:D8:169:VAL:CG1	2.70	0.41
3:D9:84:GLU:N	3:D9:84:GLU:CD	2.79	0.41
3:D9:152:SER:O	3:D9:153:ALA:HB2	2.21	0.41
3:DA:47:ALA:HB2	3:DA:89:TYR:CD2	2.56	0.41
3:DB:103:SER:HB2	3:DB:159:PRO:HA	1.95	0.41
3:DB:119:LYS:HG2	3:DB:147:ASP:CG	2.45	0.41
3:DC:31:VAL:CB	4:FC:34:ILE:O	2.69	0.41
3:DD:64:VAL:HG13	3:DD:120:PHE:HE1	1.86	0.41
3:DD:84:GLU:CD	3:DD:84:GLU:N	2.79	0.41
3:DE:64:VAL:HG13	3:DE:120:PHE:HE1	1.86	0.41
3:DG:152:SER:O	3:DG:153:ALA:HB2	2.21	0.41
3:DI:27:PRO:CB	4:FI:30:TYR:HA	2.50	0.41
3:DI:54:CYS:SG	3:DI:208:VAL:HG21	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DI:157:ASN:ND2	3:DI:157:ASN:C	2.79	0.41
3:DJ:103:SER:OG	3:DJ:213:ASP:OD2	2.39	0.41
3:DK:119:LYS:HG2	3:DK:147:ASP:CG	2.45	0.41
3:DM:100:TYR:HA	3:DM:215:SER:O	2.21	0.41
3:DN:84:GLU:C	3:DN:86:HIS:H	2.28	0.41
3:DO:84:GLU:N	3:DO:84:GLU:CD	2.79	0.41
3:DO:169:VAL:O	3:DO:169:VAL:CG1	2.69	0.41
3:DQ:47:ALA:HB2	3:DQ:89:TYR:CD2	2.56	0.41
3:DQ:54:CYS:SG	3:DQ:208:VAL:HG21	2.61	0.41
3:DQ:115:ALA:CB	3:DQ:194:THR:OG1	2.67	0.41
3:DS:47:ALA:HB2	3:DS:89:TYR:CD2	2.56	0.41
3:DS:103:SER:OG	3:DS:213:ASP:OD2	2.39	0.41
3:DT:47:ALA:HB2	3:DT:89:TYR:CD2	2.56	0.41
3:DT:152:SER:O	3:DT:153:ALA:HB2	2.21	0.41
3:DU:31:VAL:CB	4:FU:34:ILE:O	2.69	0.41
3:DU:64:VAL:HG13	3:DU:120:PHE:HE1	1.85	0.41
3:DU:121:LEU:O	3:DU:186:TYR:N	2.39	0.41
3:DU:168:ALA:C	3:DU:170:TYR:H	2.29	0.41
3:DW:103:SER:OG	3:DW:213:ASP:OD2	2.39	0.41
3:DX:100:TYR:CD2	3:DX:100:TYR:C	2.99	0.41
3:DY:113:ALA:HB2	3:DY:199:ASN:CG	2.46	0.41
3:DY:223:PRO:HB2	3:DY:224:ASP:H	1.71	0.41
3:DZ:64:VAL:HG13	3:DZ:120:PHE:HE1	1.85	0.41
3:Db:53:PHE:CD1	3:Db:53:PHE:N	2.88	0.41
3:Db:54:CYS:SG	3:Db:208:VAL:HG21	2.61	0.41
3:Dc:64:VAL:HG13	3:Dc:120:PHE:HE1	1.86	0.41
3:Dc:100:TYR:HA	3:Dc:215:SER:O	2.21	0.41
3:Dc:169:VAL:O	3:Dc:169:VAL:CG1	2.69	0.41
3:Dd:31:VAL:CB	4:Fd:34:ILE:O	2.69	0.41
3:Dd:64:VAL:HG13	3:Dd:120:PHE:HE1	1.85	0.41
3:Df:113:ALA:HB2	3:Df:199:ASN:CG	2.46	0.41
3:Di:79:SER:O	3:Di:81:SER:N	2.51	0.41
3:Di:103:SER:HB3	3:Di:159:PRO:CA	2.35	0.41
3:Dk:101:ARG:HH12	3:Dk:165:ASP:HB3	1.84	0.41
3:Dl:115:ALA:CB	3:Dl:194:THR:OG1	2.67	0.41
3:Dm:47:ALA:HB2	3:Dm:89:TYR:CD2	2.56	0.41
3:Dm:113:ALA:HB2	3:Dm:199:ASN:CG	2.46	0.41
3:Dp:29:VAL:HG13	3:Dq:218:HIS:HE1	1.87	0.41
3:Dq:113:ALA:HB2	3:Dq:199:ASN:CG	2.46	0.41
3:Dr:54:CYS:SG	3:Dr:208:VAL:HG21	2.61	0.41
3:Ds:169:VAL:O	3:Ds:169:VAL:CG1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:103:SER:HB3	3:ED:159:PRO:CA	2.35	0.41
3:ED:121:LEU:O	3:ED:186:TYR:N	2.39	0.41
3:EE:84:GLU:CD	3:EE:84:GLU:N	2.79	0.41
3:EE:120:PHE:HD2	3:EE:146:TRP:CZ2	2.38	0.41
4:FD:29:GLN:HB2	4:FD:30:TYR:HD1	1.84	0.41
4:Fx:31:GLN:HE21	4:Fx:31:GLN:HA	1.85	0.41
1:A0:144:PHE:CD1	1:A0:144:PHE:C	2.99	0.40
1:A1:144:PHE:C	1:A1:144:PHE:CD1	2.99	0.40
1:A3:82:LEU:HG	1:A3:83:GLU:H	1.86	0.40
1:A3:241:THR:CG2	1:A7:110:GLY:O	2.70	0.40
1:A4:219:TYR:HA	3:D5:39:ARG:HA	2.02	0.40
1:A4:224:ILE:HD11	3:D5:89:TYR:CE1	2.55	0.40
1:A5:40:VAL:HG13	1:A5:211:TYR:HD1	1.87	0.40
1:A5:174:TRP:CD1	1:A5:184:TYR:HA	2.56	0.40
1:A5:175:GLY:O	3:D7:176:VAL:HG12	2.21	0.40
1:A7:174:TRP:CD1	1:A7:184:TYR:HA	2.56	0.40
1:A8:144:PHE:CD1	1:A8:144:PHE:C	3.00	0.40
1:A9:42:THR:O	1:A9:42:THR:CG2	2.69	0.40
1:A9:48:LEU:O	1:A9:131:GLN:HG2	2.20	0.40
1:A9:160:TYR:OH	1:A9:167:VAL:HG23	2.21	0.40
1:A9:174:TRP:CD1	1:A9:184:TYR:HA	2.56	0.40
1:A9:239:PHE:CD2	3:Da:226:GLN:NE2	2.87	0.40
1:AA:110:GLY:O	1:AB:241:THR:CG2	2.69	0.40
1:AB:113:THR:HG22	1:AB:114:LYS:N	2.36	0.40
1:AB:175:GLY:O	3:DC:176:VAL:HG12	2.21	0.40
1:AC:6:GLU:O	2:CC:162:LEU:N	2.53	0.40
1:AC:79:PHE:CE2	1:AC:160:TYR:CD2	3.08	0.40
1:AC:137:GLY:HA2	1:AD:38:PHE:CD1	2.48	0.40
1:AC:140:PRO:HB3	3:DC:25:LEU:HB3	2.03	0.40
1:AC:144:PHE:C	1:AC:144:PHE:CD1	2.99	0.40
1:AC:224:ILE:HA	1:AC:225:PRO:HD2	1.86	0.40
1:AD:66:LEU:O	1:AD:68:TRP:N	2.55	0.40
1:AD:110:GLY:O	1:AE:241:THR:CG2	2.70	0.40
1:AD:168:PRO:HB3	2:CD:180:PRO:HB3	2.03	0.40
1:AE:42:THR:O	1:AE:42:THR:CG2	2.69	0.40
1:AE:144:PHE:CD1	1:AE:144:PHE:C	2.99	0.40
1:AE:219:TYR:CE2	3:DE:39:ARG:HD2	2.55	0.40
1:AF:82:LEU:HG	1:AF:83:GLU:H	1.86	0.40
1:AF:110:GLY:O	1:AG:241:THR:CG2	2.70	0.40
1:AH:20:SER:HA	1:AH:21:PRO:HD3	1.92	0.40
1:AH:108:PRO:O	1:AI:242:ASN:ND2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:113:THR:HG22	1:AH:114:LYS:N	2.36	0.40
1:AH:140:PRO:HB3	3:DH:25:LEU:HB3	2.03	0.40
1:AH:184:TYR:CE2	2:CH:139:ALA:CB	3.03	0.40
1:AH:188:PRO:HG3	3:DI:176:VAL:CG1	2.50	0.40
1:AI:40:VAL:HG13	1:AI:211:TYR:HD1	1.86	0.40
1:AJ:113:THR:HG22	1:AJ:114:LYS:N	2.36	0.40
1:AJ:140:PRO:HB3	3:DJ:25:LEU:HB3	2.03	0.40
1:AJ:144:PHE:CD1	1:AJ:144:PHE:C	2.99	0.40
1:AJ:147:ALA:C	1:AJ:149:SER:H	2.28	0.40
1:AJ:224:ILE:CD1	3:DJ:89:TYR:CE1	3.04	0.40
1:AK:38:PHE:CD2	1:AK:68:TRP:HB2	2.56	0.40
1:AK:174:TRP:CD1	1:AK:184:TYR:HA	2.56	0.40
1:AK:176:ALA:C	1:AK:178:THR:N	2.79	0.40
1:AK:221:PRO:HA	3:DK:40:PHE:HE2	1.87	0.40
1:AL:41:GLU:O	1:AL:42:THR:HB	2.19	0.40
1:AL:224:ILE:HA	1:AL:225:PRO:HD2	1.86	0.40
1:AM:38:PHE:CD2	1:AM:68:TRP:HB2	2.56	0.40
1:AM:221:PRO:HA	3:DM:40:PHE:HE2	1.86	0.40
1:AN:132:GLN:OE1	1:AO:66:LEU:HD21	2.20	0.40
1:AN:168:PRO:HB3	2:CN:180:PRO:HB3	2.03	0.40
1:AN:184:TYR:HE2	2:CN:139:ALA:HB2	1.86	0.40
1:AO:175:GLY:O	3:DK:176:VAL:HG12	2.22	0.40
1:AO:219:TYR:CE2	3:DO:39:ARG:HD2	2.55	0.40
1:AP:42:THR:O	1:AP:42:THR:CG2	2.69	0.40
1:AP:93:THR:O	1:AP:95:SER:N	2.53	0.40
1:AP:110:GLY:O	1:AQ:241:THR:CG2	2.70	0.40
1:AP:174:TRP:CD1	1:AP:184:TYR:HA	2.56	0.40
1:AQ:132:GLN:OE1	1:AR:66:LEU:HD21	2.20	0.40
1:AS:82:LEU:HG	1:AS:83:GLU:H	1.86	0.40
1:AS:93:THR:O	1:AS:95:SER:N	2.53	0.40
1:AT:82:LEU:HG	1:AT:83:GLU:H	1.86	0.40
1:AU:140:PRO:HB3	3:DV:25:LEU:HB3	2.03	0.40
1:AV:38:PHE:CD2	1:AV:68:TRP:HB2	2.56	0.40
1:AV:224:ILE:CD1	3:DW:89:TYR:CE1	3.04	0.40
1:AW:88:PHE:CA	1:AW:207:CYS:HA	2.48	0.40
1:AW:112:PRO:CG	3:DY:223:PRO:HD3	2.50	0.40
1:AX:144:PHE:C	1:AX:144:PHE:CD1	2.99	0.40
1:AX:174:TRP:CD1	1:AX:184:TYR:HA	2.56	0.40
1:AY:243:ILE:H	1:AY:243:ILE:HG13	1.70	0.40
1:AZ:20:SER:HA	1:AZ:21:PRO:HD3	1.92	0.40
1:AZ:224:ILE:HA	1:AZ:225:PRO:HD2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aa:38:PHE:CD2	1:Aa:68:TRP:HB2	2.56	0.40
1:Aa:140:PRO:HB3	3:Dc:25:LEU:HB3	2.03	0.40
1:Ab:24:MET:O	1:Ab:25:HIS:HB2	2.21	0.40
1:Ab:87:GLN:HA	1:Ab:153:ALA:HB2	2.02	0.40
1:Ac:48:LEU:O	1:Ac:131:GLN:HG2	2.21	0.40
1:Ac:71:LEU:HD11	1:Ag:138:MET:HE1	2.02	0.40
1:Ac:147:ALA:C	1:Ac:149:SER:H	2.28	0.40
1:Ad:82:LEU:HG	1:Ad:83:GLU:H	1.86	0.40
1:Ae:41:GLU:O	1:Ae:42:THR:HB	2.19	0.40
1:Af:92:THR:HB	1:Af:93:THR:H	1.62	0.40
1:Af:139:SER:HA	1:Af:140:PRO:HD3	1.62	0.40
1:Af:160:TYR:OH	1:Af:167:VAL:HG23	2.21	0.40
1:Ag:40:VAL:HG13	1:Ag:211:TYR:HD1	1.86	0.40
1:Ag:176:ALA:C	1:Ag:178:THR:N	2.79	0.40
1:Ah:113:THR:HG22	1:Ah:114:LYS:N	2.36	0.40
1:Ai:38:PHE:CD2	1:Ai:68:TRP:HB2	2.56	0.40
1:Aj:62:SER:HB2	1:Aj:73:ASN:ND2	2.27	0.40
1:Aj:144:PHE:CD1	1:Aj:144:PHE:C	2.99	0.40
1:Aj:175:GLY:O	3:Dm:176:VAL:HG12	2.21	0.40
1:Ak:175:GLY:O	3:Dn:176:VAL:HG12	2.21	0.40
1:Al:38:PHE:CD2	1:Al:68:TRP:HB2	2.56	0.40
1:Am:101:PHE:CD2	1:Am:143:VAL:CG1	2.91	0.40
1:Am:108:PRO:O	1:BA:242:ASN:ND2	2.54	0.40
1:Ao:82:LEU:HG	1:Ao:83:GLU:H	1.86	0.40
1:Ao:175:GLY:O	3:DT:176:VAL:HG12	2.21	0.40
1:BA:42:THR:O	1:BA:42:THR:CG2	2.69	0.40
1:BA:144:PHE:C	1:BA:144:PHE:CD1	2.99	0.40
1:BB:110:GLY:O	1:BC:241:THR:CG2	2.70	0.40
1:BB:184:TYR:HE2	2:Cq:139:ALA:HB2	1.86	0.40
1:BB:219:TYR:CE2	3:Dq:39:ARG:HD2	2.55	0.40
1:BB:224:ILE:CD1	3:Dq:89:TYR:CE1	3.04	0.40
1:BC:55:HIS:O	1:BC:194:SER:HA	2.21	0.40
1:BC:144:PHE:CD1	1:BC:144:PHE:C	2.99	0.40
1:BC:175:GLY:N	1:BC:183:THR:O	2.53	0.40
1:BD:24:MET:O	1:BD:25:HIS:HB2	2.21	0.40
1:BD:38:PHE:CD2	1:BD:68:TRP:HB2	2.56	0.40
1:BD:113:THR:HG22	1:BD:114:LYS:N	2.36	0.40
1:BD:160:TYR:OH	1:BD:167:VAL:HG23	2.21	0.40
1:BE:55:HIS:O	1:BE:194:SER:HA	2.21	0.40
1:BE:168:PRO:HB3	2:Ct:180:PRO:HB3	2.03	0.40
1:BE:224:ILE:HD11	3:EA:89:TYR:CE1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:108:PRO:O	1:BG:242:ASN:ND2	2.54	0.40
1:BF:174:TRP:CD1	1:BF:184:TYR:HA	2.56	0.40
1:BF:224:ILE:CD1	3:EB:89:TYR:CE1	3.04	0.40
1:BG:160:TYR:OH	1:BG:167:VAL:HG23	2.21	0.40
1:BH:55:HIS:O	1:BH:194:SER:HA	2.21	0.40
1:BH:174:TRP:NE1	2:Cw:137:GLU:OE2	2.54	0.40
1:BH:184:TYR:HE2	2:Cw:139:ALA:HB2	1.86	0.40
1:BI:42:THR:O	1:BI:42:THR:CG2	2.69	0.40
1:BI:112:PRO:CG	3:EA:223:PRO:HD3	2.50	0.40
1:BI:220:CYS:HA	1:BI:221:PRO:HD2	1.82	0.40
2:C0:68:GLU:O	2:C0:69:TRP:C	2.63	0.40
2:C4:69:TRP:CZ3	2:C4:124:LEU:HD21	2.56	0.40
2:C4:149:ALA:O	2:C4:152:TYR:CD2	2.75	0.40
2:C6:152:TYR:HB3	2:C6:197:LEU:CD2	2.51	0.40
2:C6:215:VAL:HG12	2:C6:216:ALA:N	2.36	0.40
2:C7:139:ALA:O	2:C7:140:LEU:HB2	2.21	0.40
2:C7:213:MET:HE2	2:C7:215:VAL:CG2	2.47	0.40
2:C9:215:VAL:HG12	2:C9:216:ALA:N	2.36	0.40
2:CA:139:ALA:O	2:CA:140:LEU:HB2	2.21	0.40
2:CB:69:TRP:CZ3	2:CB:124:LEU:HD21	2.56	0.40
2:CB:160:HIS:ND1	2:CB:160:HIS:N	2.70	0.40
2:CF:139:ALA:O	2:CF:140:LEU:HB2	2.21	0.40
2:CG:139:ALA:O	2:CG:140:LEU:HB2	2.21	0.40
2:CJ:69:TRP:CD1	2:CJ:70:PRO:N	2.89	0.40
2:CJ:152:TYR:HB3	2:CJ:197:LEU:CD2	2.51	0.40
2:CK:26:SER:O	2:CK:27:GLN:C	2.64	0.40
2:CK:28:GLY:O	2:CK:168:ASN:HB2	2.21	0.40
2:CK:103:LEU:O	2:CK:223:ASN:ND2	2.49	0.40
2:CN:160:HIS:ND1	2:CN:160:HIS:N	2.70	0.40
2:CN:215:VAL:HG12	2:CN:216:ALA:N	2.36	0.40
2:CP:149:ALA:O	2:CP:152:TYR:CD2	2.74	0.40
2:CR:139:ALA:O	2:CR:140:LEU:HB2	2.21	0.40
2:CR:152:TYR:HB3	2:CR:197:LEU:CD2	2.51	0.40
2:CS:28:GLY:O	2:CS:168:ASN:HB2	2.21	0.40
2:CS:180:PRO:HD2	2:CS:189:HIS:HE1	1.76	0.40
2:CU:88:LEU:C	2:CU:90:LYS:N	2.79	0.40
2:CX:88:LEU:C	2:CX:90:LYS:N	2.79	0.40
2:CX:152:TYR:HB3	2:CX:197:LEU:CD2	2.51	0.40
2:CZ:139:ALA:O	2:CZ:140:LEU:HB2	2.21	0.40
2:CZ:152:TYR:HB3	2:CZ:197:LEU:CD2	2.51	0.40
2:Cb:153:GLN:HE22	3:Db:55:SER:CB	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cd:20:GLY:CA	2:Cd:56:PRO:O	2.67	0.40
2:Cf:57:THR:O	2:Cf:58:LEU:CB	2.66	0.40
2:Cf:160:HIS:ND1	2:Cf:160:HIS:N	2.70	0.40
2:Cg:160:HIS:ND1	2:Cg:160:HIS:N	2.69	0.40
2:Ch:153:GLN:HE22	3:Dh:55:SER:N	2.19	0.40
2:Ci:68:GLU:O	2:Ci:69:TRP:C	2.63	0.40
2:Cj:134:HIS:HB3	2:Cj:135:THR:H	1.46	0.40
2:Cj:149:ALA:O	2:Cj:152:TYR:CD2	2.75	0.40
2:Cl:20:GLY:CA	2:Cl:56:PRO:O	2.67	0.40
2:Cm:28:GLY:O	2:Cm:168:ASN:HB2	2.21	0.40
2:Co:69:TRP:CD1	2:Co:70:PRO:N	2.89	0.40
2:Cp:139:ALA:O	2:Cp:140:LEU:HB2	2.21	0.40
2:Cp:152:TYR:HB3	2:Cp:197:LEU:CD2	2.51	0.40
2:Cp:215:VAL:HG12	2:Cp:216:ALA:N	2.36	0.40
2:Cq:23:ILE:N	2:Cq:23:ILE:CD1	2.81	0.40
2:Cq:26:SER:O	2:Cq:27:GLN:C	2.64	0.40
2:Cq:139:ALA:O	2:Cq:140:LEU:HB2	2.21	0.40
2:Cq:152:TYR:HB3	2:Cq:197:LEU:CD2	2.51	0.40
2:Cr:215:VAL:HG12	2:Cr:216:ALA:N	2.36	0.40
2:Cs:153:GLN:HE22	3:Ds:55:SER:CB	2.33	0.40
2:Cs:153:GLN:HE22	3:Ds:55:SER:N	2.19	0.40
2:Ct:13:ARG:HD3	2:Ct:13:ARG:HA	1.72	0.40
2:Ct:149:ALA:O	2:Ct:152:TYR:CD2	2.74	0.40
2:Cu:69:TRP:CZ3	2:Cu:124:LEU:HD21	2.56	0.40
2:Cw:88:LEU:C	2:Cw:90:LYS:N	2.79	0.40
3:D0:54:CYS:SG	3:D0:208:VAL:HG21	2.61	0.40
3:D0:169:VAL:O	3:D0:169:VAL:CG1	2.69	0.40
3:D1:103:SER:OG	3:D1:213:ASP:OD2	2.39	0.40
3:D3:31:VAL:CB	4:F3:34:ILE:O	2.69	0.40
3:D3:47:ALA:HB2	3:D3:89:TYR:CD2	2.56	0.40
3:D3:101:ARG:HH12	3:D3:165:ASP:HB3	1.84	0.40
3:D3:113:ALA:HB2	3:D3:199:ASN:CG	2.46	0.40
3:D3:120:PHE:HD2	3:D3:146:TRP:CZ2	2.38	0.40
3:D3:157:ASN:ND2	3:D3:157:ASN:C	2.80	0.40
3:D4:168:ALA:C	3:D4:170:TYR:H	2.29	0.40
3:D5:47:ALA:HB2	3:D5:89:TYR:CD2	2.56	0.40
3:D5:64:VAL:HG13	3:D5:120:PHE:HE1	1.86	0.40
3:D7:43:PHE:O	3:D7:44:ILE:C	2.60	0.40
3:D7:53:PHE:N	3:D7:53:PHE:CD1	2.88	0.40
3:D7:113:ALA:HB2	3:D7:199:ASN:CG	2.46	0.40
3:D7:120:PHE:HD2	3:D7:146:TRP:CZ2	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:115:ALA:CB	3:D8:194:THR:OG1	2.67	0.40
3:DA:152:SER:O	3:DA:153:ALA:HB2	2.21	0.40
3:DB:54:CYS:SG	3:DB:208:VAL:HG21	2.61	0.40
3:DG:47:ALA:HB2	3:DG:89:TYR:CD2	2.56	0.40
3:DG:53:PHE:N	3:DG:53:PHE:CD1	2.88	0.40
3:DH:100:TYR:HA	3:DH:215:SER:O	2.21	0.40
3:DJ:31:VAL:CB	4:FJ:34:ILE:O	2.69	0.40
3:DJ:53:PHE:N	3:DJ:53:PHE:CD1	2.88	0.40
3:DJ:54:CYS:SG	3:DJ:208:VAL:HG21	2.61	0.40
3:DK:47:ALA:HB2	3:DK:89:TYR:CD2	2.56	0.40
3:DN:53:PHE:N	3:DN:53:PHE:CD1	2.88	0.40
3:DN:100:TYR:HA	3:DN:215:SER:O	2.21	0.40
3:DN:113:ALA:HB2	3:DN:199:ASN:CG	2.46	0.40
3:DN:115:ALA:CB	3:DN:194:THR:OG1	2.67	0.40
3:DO:31:VAL:CB	4:FO:34:ILE:O	2.69	0.40
3:DO:152:SER:O	3:DO:153:ALA:HB2	2.21	0.40
3:DP:53:PHE:N	3:DP:53:PHE:CD1	2.88	0.40
3:DP:100:TYR:HA	3:DP:215:SER:O	2.21	0.40
3:DQ:31:VAL:CB	4:FQ:34:ILE:O	2.69	0.40
3:DR:29:VAL:HG13	3:DS:218:HIS:HE1	1.87	0.40
3:DR:47:ALA:HB2	3:DR:89:TYR:CD2	2.56	0.40
3:DR:86:HIS:ND1	3:DR:86:HIS:C	2.77	0.40
3:DS:84:GLU:CD	3:DS:84:GLU:N	2.79	0.40
3:DS:175:THR:OG1	3:DS:178:ASN:CG	2.65	0.40
3:DT:75:GLN:NE2	3:DT:184:GLN:OE1	2.49	0.40
3:DU:100:TYR:HA	3:DU:215:SER:O	2.21	0.40
3:DW:31:VAL:CB	4:FW:34:ILE:O	2.69	0.40
3:DX:31:VAL:CB	4:FX:34:ILE:O	2.69	0.40
3:DX:47:ALA:HB2	3:DX:89:TYR:CD2	2.56	0.40
3:DX:138:ALA:O	3:DX:141:CYS:SG	2.78	0.40
3:DY:47:ALA:HB2	3:DY:89:TYR:CD2	2.56	0.40
3:DY:138:ALA:O	3:DY:141:CYS:SG	2.78	0.40
3:DZ:31:VAL:CB	4:FZ:34:ILE:O	2.69	0.40
3:Da:47:ALA:HB2	3:Da:89:TYR:CD2	2.56	0.40
3:Db:29:VAL:HG13	3:Dc:218:HIS:HE1	1.86	0.40
3:Db:103:SER:OG	3:Db:213:ASP:OD2	2.39	0.40
3:Dd:115:ALA:CB	3:Dd:194:THR:OG1	2.67	0.40
3:De:121:LEU:O	3:De:186:TYR:N	2.39	0.40
3:Df:169:VAL:O	3:Df:169:VAL:CG1	2.70	0.40
3:Dg:31:VAL:CB	4:Fg:34:ILE:O	2.69	0.40
3:Dh:47:ALA:HB2	3:Dh:89:TYR:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dh:113:ALA:HB2	3:Dh:199:ASN:CG	2.46	0.40
3:Di:101:ARG:HH12	3:Di:165:ASP:HB3	1.84	0.40
3:Dk:75:GLN:NE2	3:Dk:184:GLN:OE1	2.49	0.40
3:Dk:175:THR:OG1	3:Dk:178:ASN:CG	2.65	0.40
3:Dn:27:PRO:CB	4:Fn:30:TYR:HA	2.51	0.40
3:Dn:120:PHE:HD2	3:Dn:146:TRP:CZ2	2.38	0.40
3:Do:31:VAL:CB	4:Fo:34:ILE:O	2.69	0.40
3:Do:47:ALA:HB2	3:Do:89:TYR:CD2	2.56	0.40
3:Dp:100:TYR:CD1	3:Dp:100:TYR:C	2.99	0.40
3:Dp:119:LYS:HG2	3:Dp:147:ASP:CG	2.45	0.40
3:Dq:120:PHE:HD2	3:Dq:146:TRP:CZ2	2.38	0.40
3:Dr:100:TYR:CD2	3:Dr:100:TYR:C	2.99	0.40
3:Ds:157:ASN:ND2	3:Ds:157:ASN:C	2.80	0.40
3:EB:64:VAL:HG13	3:EB:120:PHE:HE1	1.85	0.40
3:EC:31:VAL:CB	4:Fv:34:ILE:O	2.69	0.40
3:EC:169:VAL:O	3:EC:169:VAL:CG1	2.69	0.40
3:EE:103:SER:HB2	3:EE:159:PRO:HA	1.95	0.40
3:EE:113:ALA:HB2	3:EE:199:ASN:CG	2.46	0.40
3:EE:169:VAL:O	3:EE:169:VAL:CG1	2.69	0.40
4:F6:32:ASN:HB3	4:F6:33:SER:H	1.58	0.40
4:FM:31:GLN:HE21	4:FM:31:GLN:HA	1.85	0.40
4:Fa:21:ILE:HG22	4:Fa:21:ILE:O	2.20	0.40
1:A0:55:HIS:O	1:A0:194:SER:HA	2.21	0.40
1:A0:110:GLY:H	1:A1:242:ASN:ND2	2.12	0.40
1:A0:175:GLY:O	3:D2:176:VAL:HG12	2.21	0.40
1:A0:176:ALA:C	1:A0:178:THR:N	2.79	0.40
1:A3:48:LEU:O	1:A3:131:GLN:HG2	2.20	0.40
1:A3:55:HIS:O	1:A3:194:SER:HA	2.21	0.40
1:A3:108:PRO:O	1:A4:242:ASN:ND2	2.54	0.40
1:A3:160:TYR:OH	1:A3:167:VAL:HG23	2.21	0.40
1:A3:184:TYR:HE2	2:C4:139:ALA:HB2	1.86	0.40
1:A4:110:GLY:O	1:A5:241:THR:CG2	2.69	0.40
1:A4:138:MET:HE1	1:A5:71:LEU:HD11	2.03	0.40
1:A4:220:CYS:HA	1:A4:221:PRO:HD2	1.82	0.40
1:A5:20:SER:HA	1:A5:21:PRO:HD3	1.92	0.40
1:A5:42:THR:O	1:A5:42:THR:CG2	2.69	0.40
1:A5:49:THR:CG2	1:A5:50:GLY:N	2.83	0.40
1:A5:66:LEU:O	1:A5:68:TRP:N	2.55	0.40
1:A5:112:PRO:CG	3:D7:223:PRO:HD3	2.50	0.40
1:A5:188:PRO:HG3	3:D7:176:VAL:CG1	2.50	0.40
1:A5:219:TYR:HA	3:D6:39:ARG:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:43:LEU:HD23	1:A6:43:LEU:H	1.81	0.40
1:A6:110:GLY:O	1:A7:241:THR:CG2	2.69	0.40
1:A6:144:PHE:CD1	1:A6:144:PHE:C	2.99	0.40
1:A7:24:MET:O	1:A7:25:HIS:HB2	2.21	0.40
1:A8:176:ALA:C	1:A8:178:THR:N	2.79	0.40
1:A8:224:ILE:CD1	3:D9:89:TYR:CE1	3.04	0.40
1:A9:38:PHE:CD2	1:A9:68:TRP:HB2	2.56	0.40
1:A9:184:TYR:HE2	2:Ca:139:ALA:HB2	1.86	0.40
1:AA:24:MET:O	1:AA:25:HIS:HB2	2.21	0.40
1:AA:66:LEU:O	1:AA:68:TRP:N	2.55	0.40
1:AA:87:GLN:HA	1:AA:153:ALA:HB2	2.02	0.40
1:AA:138:MET:HE1	1:AB:71:LEU:HD11	2.02	0.40
1:AA:241:THR:CG2	1:AE:110:GLY:O	2.70	0.40
1:AE:66:LEU:O	1:AE:68:TRP:N	2.55	0.40
1:AE:176:ALA:C	1:AE:178:THR:N	2.79	0.40
1:AF:6:GLU:O	2:CF:162:LEU:N	2.53	0.40
1:AF:24:MET:O	1:AF:25:HIS:HB2	2.21	0.40
1:AF:66:LEU:O	1:AF:68:TRP:N	2.55	0.40
1:AF:107:PHE:CE1	1:AF:196:LEU:HB2	2.55	0.40
1:AG:108:PRO:O	1:AH:242:ASN:ND2	2.54	0.40
1:AG:224:ILE:CD1	3:DG:89:TYR:CE1	3.04	0.40
1:AG:224:ILE:HA	1:AG:225:PRO:HD2	1.86	0.40
1:AI:108:PRO:O	1:AJ:242:ASN:ND2	2.54	0.40
1:AJ:176:ALA:C	1:AJ:178:THR:N	2.79	0.40
1:AK:71:LEU:HD11	1:AO:138:MET:HE1	2.02	0.40
1:AK:87:GLN:HA	1:AK:153:ALA:HB2	2.02	0.40
1:AK:138:MET:HE1	1:AL:71:LEU:HD11	2.02	0.40
1:AL:66:LEU:O	1:AL:68:TRP:N	2.55	0.40
1:AL:174:TRP:CD1	1:AL:184:TYR:HA	2.56	0.40
1:AL:176:ALA:C	1:AL:178:THR:N	2.79	0.40
1:AL:221:PRO:HA	3:DL:40:PHE:HE2	1.87	0.40
1:AM:76:THR:CB	1:AM:220:CYS:HB2	2.49	0.40
1:AM:88:PHE:CA	1:AM:207:CYS:HA	2.48	0.40
1:AM:110:GLY:O	1:AN:241:THR:CG2	2.69	0.40
1:AM:219:TYR:CE2	3:DM:39:ARG:HD2	2.55	0.40
1:AN:38:PHE:CD2	1:AN:68:TRP:HB2	2.56	0.40
1:AN:42:THR:O	1:AN:42:THR:CG2	2.69	0.40
1:AO:191:HIS:HB2	1:AO:192:PHE:H	1.71	0.40
1:AP:66:LEU:O	1:AP:68:TRP:N	2.55	0.40
1:AP:146:ILE:HD13	1:AP:146:ILE:HG21	1.74	0.40
1:AP:174:TRP:HB2	2:CP:188:LEU:CD2	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:184:TYR:CE2	2:CP:139:ALA:CB	3.03	0.40
1:AQ:110:GLY:O	1:AR:241:THR:CG2	2.70	0.40
1:AR:139:SER:HA	1:AR:140:PRO:HD3	1.62	0.40
1:AR:144:PHE:CD1	1:AR:144:PHE:C	2.99	0.40
1:AR:168:PRO:HB3	2:CR:180:PRO:HB3	2.03	0.40
1:AR:221:PRO:HA	3:DR:40:PHE:HE2	1.87	0.40
1:AS:6:GLU:O	2:CT:162:LEU:N	2.53	0.40
1:AS:66:LEU:HD21	1:Ao:132:GLN:OE1	2.20	0.40
1:AS:115:THR:HG23	1:AS:133:LEU:N	2.25	0.40
1:AS:175:GLY:N	1:AS:183:THR:O	2.52	0.40
1:AT:241:THR:CG2	1:AX:110:GLY:O	2.69	0.40
1:AU:40:VAL:HG13	1:AU:211:TYR:HD1	1.86	0.40
1:AU:62:SER:HB2	1:AU:73:ASN:ND2	2.27	0.40
1:AU:82:LEU:HG	1:AU:83:GLU:H	1.86	0.40
1:AU:234:LYS:HA	1:AU:234:LYS:HD3	1.89	0.40
1:AV:221:PRO:HA	3:DW:40:PHE:HE2	1.87	0.40
1:AW:38:PHE:CE2	1:AW:68:TRP:HB2	2.56	0.40
1:AX:49:THR:CG2	1:AX:50:GLY:N	2.83	0.40
1:AX:113:THR:HG22	1:AX:114:LYS:N	2.36	0.40
1:AY:144:PHE:C	1:AY:144:PHE:CD1	3.00	0.40
1:AY:168:PRO:HB3	2:CZ:180:PRO:HB3	2.03	0.40
1:AZ:40:VAL:HG13	1:AZ:211:TYR:HD1	1.86	0.40
1:AZ:144:PHE:C	1:AZ:144:PHE:CD1	2.99	0.40
1:Aa:113:THR:HG22	1:Aa:114:LYS:N	2.36	0.40
1:Aa:147:ALA:C	1:Aa:149:SER:H	2.28	0.40
1:Aa:174:TRP:CD1	1:Aa:184:TYR:HA	2.56	0.40
1:Aa:175:GLY:O	3:Dd:176:VAL:HG12	2.21	0.40
1:Ab:42:THR:O	1:Ab:42:THR:CG2	2.69	0.40
1:Ad:112:PRO:CG	3:Dg:223:PRO:HD3	2.50	0.40
1:Ad:184:TYR:HE2	2:Cf:139:ALA:HB2	1.86	0.40
1:Ae:17:HIS:O	1:Ae:19:LEU:N	2.55	0.40
1:Ae:76:THR:CB	1:Ae:220:CYS:HB2	2.49	0.40
1:Ae:160:TYR:OH	1:Ae:167:VAL:HG23	2.21	0.40
1:Af:38:PHE:CE2	1:Af:68:TRP:HB2	2.56	0.40
1:Af:144:PHE:CD1	1:Af:144:PHE:C	2.99	0.40
1:Af:184:TYR:HE2	2:Ch:139:ALA:HB2	1.86	0.40
1:Ag:41:GLU:OE2	1:Ag:211:TYR:OH	2.39	0.40
1:Ag:88:PHE:CA	1:Ag:207:CYS:HA	2.48	0.40
1:Ag:144:PHE:CD1	1:Ag:144:PHE:C	2.99	0.40
1:Ah:219:TYR:CE2	3:Dj:39:ARG:HD2	2.55	0.40
1:Ai:113:THR:HG22	1:Ai:114:LYS:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:168:PRO:HB3	2:Ck:180:PRO:HB3	2.03	0.40
1:Aj:110:GLY:O	1:Ak:241:THR:CG2	2.69	0.40
1:Ak:110:GLY:O	1:Al:241:THR:CG2	2.70	0.40
1:Ak:140:PRO:HB3	3:Dm:25:LEU:HB3	2.03	0.40
1:Ak:184:TYR:CE2	2:Cm:139:ALA:CB	3.03	0.40
1:Al:184:TYR:HE2	2:Cn:139:ALA:HB2	1.86	0.40
1:Am:132:GLN:OE1	1:BA:66:LEU:HD21	2.20	0.40
1:Am:168:PRO:HB3	2:Co:180:PRO:HB3	2.03	0.40
1:An:38:PHE:CE2	1:An:68:TRP:HB2	2.56	0.40
1:An:41:GLU:O	1:An:42:THR:HB	2.19	0.40
1:An:174:TRP:CD1	1:An:184:TYR:HA	2.56	0.40
1:An:224:ILE:HD11	3:Db:89:TYR:CE1	2.55	0.40
1:Ao:38:PHE:CE2	1:Ao:68:TRP:HB2	2.56	0.40
1:Ao:48:LEU:O	1:Ao:131:GLN:HG2	2.20	0.40
1:Ao:113:THR:HG22	1:Ao:114:LYS:N	2.36	0.40
1:Ao:170:PHE:HD2	1:Ao:222:ARG:NH1	2.17	0.40
1:Ao:174:TRP:CD1	1:Ao:184:TYR:HA	2.56	0.40
1:Ao:221:PRO:HA	3:DS:40:PHE:HE2	1.87	0.40
1:BA:66:LEU:C	1:BA:68:TRP:H	2.30	0.40
1:BA:138:MET:HE1	1:BB:71:LEU:HD11	2.02	0.40
1:BA:174:TRP:CD1	1:BA:184:TYR:HA	2.56	0.40
1:BB:38:PHE:CD2	1:BB:68:TRP:HB2	2.56	0.40
1:BB:66:LEU:O	1:BB:68:TRP:N	2.55	0.40
1:BB:82:LEU:HG	1:BB:83:GLU:H	1.86	0.40
1:BB:175:GLY:O	3:Dr:176:VAL:HG12	2.21	0.40
1:BC:38:PHE:CE2	1:BC:68:TRP:HB2	2.56	0.40
1:BC:82:LEU:HG	1:BC:83:GLU:H	1.86	0.40
1:BC:87:GLN:HA	1:BC:153:ALA:HB2	2.02	0.40
1:BD:146:ILE:HD13	1:BD:146:ILE:HG21	1.74	0.40
1:BD:224:ILE:CD1	3:Ds:89:TYR:CE1	3.04	0.40
1:BE:38:PHE:CE2	1:BE:68:TRP:HB2	2.56	0.40
1:BE:239:PHE:CD2	3:EA:226:GLN:NE2	2.87	0.40
1:BF:55:HIS:O	1:BF:194:SER:HA	2.21	0.40
1:BG:24:MET:O	1:BG:25:HIS:HB2	2.21	0.40
1:BG:40:VAL:HG13	1:BG:211:TYR:HD1	1.86	0.40
1:BG:110:GLY:O	1:BH:241:THR:CG2	2.70	0.40
1:BG:174:TRP:CD1	1:BG:184:TYR:HA	2.56	0.40
1:BG:221:PRO:HA	3:EC:40:PHE:HE2	1.87	0.40
1:BH:17:HIS:O	1:BH:19:LEU:N	2.55	0.40
1:BH:42:THR:O	1:BH:42:THR:CG2	2.69	0.40
1:BH:76:THR:CB	1:BH:220:CYS:HB2	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:93:THR:O	1:BH:95:SER:N	2.53	0.40
1:BH:108:PRO:O	1:BI:242:ASN:ND2	2.54	0.40
1:BI:38:PHE:CD2	1:BI:68:TRP:HB2	2.56	0.40
1:BI:66:LEU:C	1:BI:68:TRP:H	2.30	0.40
1:BI:107:PHE:CE1	1:BI:196:LEU:HB2	2.55	0.40
2:C1:26:SER:O	2:C1:27:GLN:C	2.64	0.40
2:C1:77:HIS:HE1	2:C1:144:GLU:HG2	1.84	0.40
2:C1:139:ALA:O	2:C1:140:LEU:HB2	2.21	0.40
2:C3:149:ALA:O	2:C3:152:TYR:CD2	2.74	0.40
2:C3:153:GLN:HE22	3:D3:55:SER:N	2.19	0.40
2:C4:166:ARG:O	2:C4:166:ARG:HG3	2.22	0.40
2:C5:209:VAL:O	2:C5:209:VAL:CG1	2.65	0.40
2:C8:139:ALA:O	2:C8:140:LEU:HB2	2.21	0.40
2:C9:26:SER:C	3:D1:147:ASP:HB3	2.45	0.40
2:C9:153:GLN:HE22	3:D9:55:SER:N	2.19	0.40
2:CA:65:LYS:CB	3:DW:135:ARG:HH21	2.29	0.40
2:CC:64:PHE:CD1	2:CC:64:PHE:N	2.90	0.40
2:CC:117:SER:HB3	3:Dn:192:THR:CG2	2.47	0.40
2:CC:139:ALA:O	2:CC:140:LEU:HB2	2.21	0.40
2:CD:208:THR:O	2:CD:209:VAL:CG2	2.69	0.40
2:CE:139:ALA:O	2:CE:140:LEU:HB2	2.21	0.40
2:CE:153:GLN:HE22	3:DE:55:SER:N	2.19	0.40
2:CF:103:LEU:HD12	2:CF:223:ASN:HB2	2.02	0.40
2:CF:215:VAL:HG12	2:CF:216:ALA:N	2.36	0.40
2:CG:88:LEU:C	2:CG:90:LYS:N	2.79	0.40
2:CJ:149:ALA:O	2:CJ:152:TYR:CD2	2.75	0.40
2:CJ:166:ARG:HD3	3:DJ:110:PHE:O	2.20	0.40
2:CL:103:LEU:HD12	2:CL:223:ASN:HB2	2.02	0.40
2:CL:153:GLN:HE22	3:DL:55:SER:N	2.19	0.40
2:CM:26:SER:O	2:CM:27:GLN:C	2.64	0.40
2:CN:28:GLY:O	2:CN:168:ASN:HB2	2.21	0.40
2:CO:28:GLY:O	2:CO:168:ASN:HB2	2.20	0.40
2:CP:215:VAL:HG12	2:CP:216:ALA:N	2.36	0.40
2:CQ:152:TYR:HB3	2:CQ:197:LEU:CD2	2.51	0.40
2:CR:20:GLY:CA	2:CR:56:PRO:O	2.67	0.40
2:CS:149:ALA:O	2:CS:152:TYR:CD2	2.75	0.40
2:CT:28:GLY:O	2:CT:168:ASN:HB2	2.21	0.40
2:CT:54:LEU:HD23	2:CT:54:LEU:HA	1.84	0.40
2:CT:153:GLN:HE22	3:DT:55:SER:N	2.19	0.40
2:CW:15:GLU:CB	2:CW:29:SER:HB2	2.52	0.40
2:CW:26:SER:O	2:CW:27:GLN:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:54:LEU:HD23	2:CW:54:LEU:HA	1.84	0.40
2:CX:20:GLY:CA	2:CX:56:PRO:O	2.67	0.40
2:CX:69:TRP:HZ2	2:CX:198:ILE:HG23	1.85	0.40
2:CX:139:ALA:O	2:CX:140:LEU:HB2	2.21	0.40
2:CX:149:ALA:O	2:CX:152:TYR:CD2	2.75	0.40
2:CX:215:VAL:HG12	2:CX:216:ALA:N	2.36	0.40
2:CY:88:LEU:C	2:CY:90:LYS:N	2.79	0.40
2:CZ:26:SER:C	3:Dq:147:ASP:HB3	2.45	0.40
2:Ca:26:SER:O	2:Ca:27:GLN:C	2.64	0.40
2:Ca:69:TRP:CZ3	2:Ca:124:LEU:HD21	2.56	0.40
2:Ca:103:LEU:O	2:Ca:223:ASN:ND2	2.49	0.40
2:Cb:149:ALA:O	2:Cb:152:TYR:CD2	2.75	0.40
2:Cc:103:LEU:HD21	3:Dd:163:PRO:HD3	2.01	0.40
2:Cc:160:HIS:ND1	2:Cc:160:HIS:N	2.69	0.40
2:Cd:13:ARG:HA	2:Cd:13:ARG:HD3	1.72	0.40
2:Cd:65:LYS:CB	3:D4:135:ARG:HH21	2.29	0.40
2:Cd:153:GLN:HE22	3:Dd:55:SER:CB	2.33	0.40
2:Cd:218:ILE:HD13	2:Cd:218:ILE:HG21	1.89	0.40
2:Cf:26:SER:O	2:Cf:27:GLN:C	2.64	0.40
2:Cf:69:TRP:CZ3	2:Cf:124:LEU:HD21	2.56	0.40
2:Cg:103:LEU:HD12	2:Cg:223:ASN:HB2	2.02	0.40
2:Ch:69:TRP:CD1	2:Ch:70:PRO:N	2.89	0.40
2:Ch:152:TYR:HB3	2:Ch:197:LEU:CD2	2.51	0.40
2:Ci:88:LEU:C	2:Ci:90:LYS:N	2.79	0.40
2:Cj:58:LEU:HB3	2:Cj:59:SER:H	1.65	0.40
2:Cj:216:ALA:HA	2:Cj:217:PRO:HD3	1.78	0.40
2:Ck:152:TYR:HB3	2:Ck:197:LEU:CD2	2.51	0.40
2:Cm:139:ALA:O	2:Cm:140:LEU:HB2	2.21	0.40
2:Cm:166:ARG:O	2:Cm:166:ARG:HG3	2.22	0.40
2:Cn:54:LEU:HD23	2:Cn:54:LEU:HA	1.84	0.40
2:Cn:58:LEU:HB3	2:Cn:59:SER:H	1.65	0.40
2:Cq:69:TRP:CD1	2:Cq:70:PRO:N	2.89	0.40
2:Cr:160:HIS:ND1	2:Cr:160:HIS:N	2.70	0.40
2:Cs:129:VAL:HA	2:Cs:130:PRO:HD3	1.77	0.40
2:Cs:149:ALA:O	2:Cs:152:TYR:CD2	2.74	0.40
2:Ct:64:PHE:CD1	2:Ct:64:PHE:N	2.90	0.40
2:Ct:160:HIS:ND1	2:Ct:160:HIS:N	2.70	0.40
2:Cu:65:LYS:CB	3:D5:135:ARG:HH21	2.29	0.40
2:Cu:149:ALA:O	2:Cu:152:TYR:CD2	2.74	0.40
2:Cw:129:VAL:HA	2:Cw:130:PRO:HD3	1.78	0.40
2:Cw:153:GLN:HE22	3:ED:55:SER:N	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cx:152:TYR:HB3	2:Cx:197:LEU:CD2	2.51	0.40
3:D0:43:PHE:O	3:D0:44:ILE:C	2.60	0.40
3:D0:175:THR:OG1	3:D0:178:ASN:CG	2.65	0.40
3:D1:29:VAL:HG13	3:D2:218:HIS:HE1	1.87	0.40
3:D2:43:PHE:O	3:D2:44:ILE:C	2.60	0.40
3:D3:100:TYR:HA	3:D3:215:SER:O	2.21	0.40
3:D3:168:ALA:C	3:D3:170:TYR:H	2.29	0.40
3:D4:29:VAL:HG13	3:D5:218:HIS:HE1	1.87	0.40
3:D4:103:SER:OG	3:D4:213:ASP:OD2	2.39	0.40
3:D5:98:ALA:HB2	3:D5:220:VAL:HG21	2.01	0.40
3:D5:103:SER:OG	3:D5:213:ASP:OD2	2.39	0.40
3:D5:157:ASN:ND2	3:D5:157:ASN:C	2.80	0.40
3:D6:53:PHE:N	3:D6:53:PHE:CD1	2.88	0.40
3:D6:168:ALA:C	3:D6:170:TYR:H	2.29	0.40
3:D7:103:SER:OG	3:D7:213:ASP:OD2	2.39	0.40
3:D8:54:CYS:SG	3:D8:208:VAL:HG21	2.61	0.40
3:DA:43:PHE:O	3:DA:44:ILE:C	2.60	0.40
3:DA:175:THR:OG1	3:DA:178:ASN:CG	2.65	0.40
3:DB:53:PHE:N	3:DB:53:PHE:CD1	2.88	0.40
3:DB:103:SER:OG	3:DB:213:ASP:OD2	2.39	0.40
3:DC:115:ALA:CB	3:DC:194:THR:OG1	2.67	0.40
3:DD:13:SER:O	3:DE:9:PRO:HD3	2.20	0.40
3:DD:100:TYR:HA	3:DD:215:SER:O	2.21	0.40
3:DE:23:THR:HA	3:DE:24:PRO:HD3	1.89	0.40
3:DE:31:VAL:CB	4:FE:34:ILE:O	2.69	0.40
3:DF:175:THR:OG1	3:DF:178:ASN:CG	2.65	0.40
3:DG:100:TYR:HA	3:DG:215:SER:O	2.21	0.40
3:DH:175:THR:OG1	3:DH:178:ASN:CG	2.65	0.40
3:DI:84:GLU:N	3:DI:84:GLU:CD	2.79	0.40
3:DI:103:SER:HB3	3:DI:159:PRO:CA	2.35	0.40
3:DJ:27:PRO:CB	4:FJ:30:TYR:HA	2.51	0.40
3:DJ:115:ALA:CB	3:DJ:194:THR:OG1	2.67	0.40
3:DL:175:THR:OG1	3:DL:178:ASN:CG	2.65	0.40
3:DM:47:ALA:HB2	3:DM:89:TYR:CD2	2.56	0.40
3:DN:103:SER:OG	3:DN:213:ASP:OD2	2.39	0.40
3:DO:168:ALA:C	3:DO:170:TYR:H	2.29	0.40
3:DP:169:VAL:O	3:DP:169:VAL:CG1	2.70	0.40
3:DQ:64:VAL:HG13	3:DQ:120:PHE:HE1	1.85	0.40
3:DR:113:ALA:HB2	3:DR:199:ASN:CG	2.46	0.40
3:DS:54:CYS:SG	3:DS:208:VAL:HG21	2.61	0.40
3:DT:53:PHE:CD1	3:DT:53:PHE:N	2.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:44:ILE:O	3:DU:45:ASP:C	2.65	0.40
3:DU:103:SER:OG	3:DU:213:ASP:OD2	2.39	0.40
3:DU:152:SER:O	3:DU:153:ALA:HB2	2.21	0.40
3:DV:47:ALA:HB2	3:DV:89:TYR:CD2	2.56	0.40
3:DX:54:CYS:SG	3:DX:208:VAL:HG21	2.61	0.40
3:DX:100:TYR:HA	3:DX:215:SER:O	2.21	0.40
3:DX:101:ARG:HH12	3:DX:165:ASP:HB3	1.84	0.40
3:DX:121:LEU:C	3:DX:121:LEU:CD2	2.89	0.40
3:DY:100:TYR:HA	3:DY:215:SER:O	2.21	0.40
3:DY:168:ALA:C	3:DY:170:TYR:H	2.29	0.40
3:Da:31:VAL:CB	4:Fa:34:ILE:O	2.69	0.40
3:Da:100:TYR:CD2	3:Da:100:TYR:C	2.99	0.40
3:Da:103:SER:HB2	3:Da:159:PRO:HA	1.95	0.40
3:Db:47:ALA:HB2	3:Db:89:TYR:CD2	2.56	0.40
3:Dc:84:GLU:CD	3:Dc:84:GLU:N	2.79	0.40
3:De:29:VAL:HG13	3:Df:218:HIS:HE1	1.87	0.40
3:De:169:VAL:O	3:De:169:VAL:CG1	2.70	0.40
3:Df:21:ASN:HB2	3:Df:22:SER:H	1.74	0.40
3:Dg:29:VAL:HG13	3:Dh:218:HIS:HE1	1.87	0.40
3:Dg:47:ALA:HB2	3:Dg:89:TYR:CD2	2.56	0.40
3:Dg:119:LYS:HG2	3:Dg:147:ASP:CG	2.45	0.40
3:Di:113:ALA:HB2	3:Di:199:ASN:CG	2.46	0.40
3:Dl:86:HIS:ND1	3:Dl:86:HIS:C	2.77	0.40
3:Dl:175:THR:OG1	3:Dl:178:ASN:CG	2.65	0.40
3:Dm:103:SER:OG	3:Dm:213:ASP:OD2	2.39	0.40
3:Dn:47:ALA:HB2	3:Dn:89:TYR:CD2	2.56	0.40
3:Dp:84:GLU:CD	3:Dp:84:GLU:N	2.79	0.40
3:Dp:168:ALA:C	3:Dp:170:TYR:H	2.29	0.40
3:Dp:175:THR:OG1	3:Dp:178:ASN:CG	2.65	0.40
3:Dq:152:SER:O	3:Dq:153:ALA:HB2	2.21	0.40
3:Dq:175:THR:OG1	3:Dq:178:ASN:CG	2.65	0.40
3:Ds:47:ALA:HB2	3:Ds:89:TYR:CD2	2.56	0.40
3:Ds:101:ARG:HH12	3:Ds:165:ASP:HB3	1.84	0.40
3:EA:31:VAL:CB	4:Ft:34:ILE:O	2.69	0.40
3:EA:84:GLU:CD	3:EA:84:GLU:N	2.79	0.40
3:EA:98:ALA:HB2	3:EA:220:VAL:HG21	2.01	0.40
3:EA:121:LEU:C	3:EA:121:LEU:CD2	2.89	0.40
3:EA:175:THR:HG1	3:EA:178:ASN:CG	2.28	0.40
3:EB:101:ARG:HH12	3:EB:165:ASP:HB3	1.84	0.40
3:EC:84:GLU:CD	3:EC:84:GLU:N	2.79	0.40
3:EC:175:THR:OG1	3:EC:178:ASN:CG	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:47:ALA:HB2	3:EE:89:TYR:CD2	2.56	0.40
3:EE:54:CYS:SG	3:EE:208:VAL:HG21	2.61	0.40
1:A0:113:THR:HG22	1:A0:114:LYS:N	2.36	0.40
1:A0:140:PRO:HB3	3:D1:25:LEU:HB3	2.03	0.40
1:A0:174:TRP:NE1	2:C1:137:GLU:OE2	2.53	0.40
1:A0:175:GLY:N	1:A0:183:THR:O	2.52	0.40
1:A1:43:LEU:HD23	1:A1:43:LEU:H	1.81	0.40
1:A1:110:GLY:O	1:A2:241:THR:CG2	2.69	0.40
1:A1:147:ALA:C	1:A1:149:SER:H	2.28	0.40
1:A1:239:PHE:CD2	3:D2:226:GLN:NE2	2.87	0.40
1:A2:24:MET:O	1:A2:25:HIS:HB2	2.21	0.40
1:A2:38:PHE:CD2	1:A2:68:TRP:HB2	2.56	0.40
1:A2:48:LEU:O	1:A2:131:GLN:HG2	2.21	0.40
1:A2:93:THR:O	1:A2:95:SER:N	2.53	0.40
1:A2:132:GLN:OE1	1:AY:66:LEU:HD21	2.20	0.40
1:A2:138:MET:HE1	1:AY:71:LEU:HD11	2.03	0.40
1:A3:38:PHE:CE2	1:A3:68:TRP:HB2	2.56	0.40
1:A3:140:PRO:HB3	3:D4:25:LEU:HB3	2.03	0.40
1:A4:224:ILE:CD1	3:D5:89:TYR:CE1	3.04	0.40
1:A5:66:LEU:C	1:A5:68:TRP:H	2.30	0.40
1:A6:40:VAL:HG13	1:A6:211:TYR:HD1	1.86	0.40
1:A6:160:TYR:OH	1:A6:167:VAL:HG23	2.21	0.40
1:A6:168:PRO:HB3	2:C7:180:PRO:HB3	2.03	0.40
1:A6:175:GLY:O	3:D8:176:VAL:HG12	2.22	0.40
1:A7:40:VAL:HG13	1:A7:211:TYR:HD1	1.86	0.40
1:A7:66:LEU:O	1:A7:68:TRP:N	2.55	0.40
1:A7:75:CYS:CB	1:A7:218:MET:SD	3.03	0.40
1:A7:82:LEU:HG	1:A7:83:GLU:H	1.86	0.40
1:A7:176:ALA:C	1:A7:178:THR:N	2.79	0.40
1:A8:108:PRO:O	1:A9:242:ASN:ND2	2.54	0.40
1:A8:110:GLY:O	1:A9:241:THR:CG2	2.69	0.40
1:A8:113:THR:HG22	1:A8:114:LYS:N	2.36	0.40
1:A8:160:TYR:OH	1:A8:167:VAL:HG23	2.21	0.40
1:A8:184:TYR:HE2	2:C9:139:ALA:HB2	1.86	0.40
1:A9:38:PHE:CE2	1:A9:68:TRP:HB2	2.56	0.40
1:AA:55:HIS:O	1:AA:194:SER:HA	2.21	0.40
1:AA:62:SER:HB2	1:AA:73:ASN:ND2	2.27	0.40
1:AB:66:LEU:O	1:AB:68:TRP:N	2.55	0.40
1:AC:66:LEU:C	1:AC:68:TRP:H	2.30	0.40
1:AC:138:MET:HE1	1:AD:71:LEU:HD11	2.02	0.40
1:AE:24:MET:O	1:AE:25:HIS:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:55:HIS:O	1:AF:194:SER:HA	2.22	0.40
1:AF:108:PRO:O	1:AG:242:ASN:ND2	2.54	0.40
1:AG:17:HIS:O	1:AG:19:LEU:N	2.55	0.40
1:AG:49:THR:CG2	1:AG:50:GLY:N	2.83	0.40
1:AG:144:PHE:C	1:AG:144:PHE:CD1	2.99	0.40
1:AH:40:VAL:HG13	1:AH:211:TYR:HD1	1.86	0.40
1:AH:138:MET:HE1	1:AI:71:LEU:HD11	2.02	0.40
1:AH:144:PHE:C	1:AH:144:PHE:CD1	2.99	0.40
1:AH:175:GLY:N	1:AH:183:THR:O	2.53	0.40
1:AI:42:THR:O	1:AI:42:THR:CG2	2.69	0.40
1:AI:75:CYS:CB	1:AI:218:MET:SD	3.03	0.40
1:AI:87:GLN:HA	1:AI:153:ALA:HB2	2.02	0.40
1:AI:138:MET:HE1	1:AJ:71:LEU:HD11	2.02	0.40
1:AJ:174:TRP:CD1	1:AJ:184:TYR:HA	2.56	0.40
1:AJ:224:ILE:HD11	3:DJ:89:TYR:CE1	2.55	0.40
1:AK:17:HIS:O	1:AK:19:LEU:N	2.55	0.40
1:AK:48:LEU:O	1:AK:131:GLN:HG2	2.20	0.40
1:AK:168:PRO:HB3	2:CK:180:PRO:HB3	2.03	0.40
1:AK:241:THR:CG2	1:AO:110:GLY:O	2.69	0.40
1:AL:41:GLU:OE2	1:AL:211:TYR:OH	2.39	0.40
1:AL:82:LEU:HG	1:AL:83:GLU:H	1.86	0.40
1:AL:160:TYR:OH	1:AL:167:VAL:HG23	2.21	0.40
1:AL:184:TYR:CE2	2:CL:139:ALA:CB	3.03	0.40
1:AM:146:ILE:HD13	1:AM:146:ILE:HG21	1.75	0.40
1:AO:38:PHE:CD2	1:AO:68:TRP:HB2	2.56	0.40
1:AO:66:LEU:C	1:AO:68:TRP:H	2.30	0.40
1:AO:144:PHE:CD1	1:AO:144:PHE:C	2.99	0.40
1:AO:224:ILE:CD1	3:DO:89:TYR:CE1	3.04	0.40
1:AP:115:THR:HG23	1:AP:133:LEU:N	2.25	0.40
1:AP:131:GLN:O	1:AP:132:GLN:C	2.65	0.40
1:AP:242:ASN:ND2	1:AS:108:PRO:O	2.54	0.40
1:AQ:140:PRO:HB3	3:DQ:25:LEU:HB3	2.03	0.40
1:AQ:174:TRP:HB2	2:CQ:188:LEU:CD2	2.44	0.40
1:AQ:174:TRP:NE1	2:CQ:137:GLU:OE2	2.54	0.40
1:AR:82:LEU:HG	1:AR:83:GLU:H	1.86	0.40
1:AR:184:TYR:HE2	2:CR:139:ALA:HB2	1.86	0.40
1:AS:24:MET:O	1:AS:25:HIS:HB2	2.21	0.40
1:AS:208:TYR:CE2	1:Ao:103:TRP:CZ2	3.06	0.40
1:AU:41:GLU:OE2	1:AU:211:TYR:OH	2.39	0.40
1:AU:66:LEU:O	1:AU:68:TRP:N	2.55	0.40
1:AV:24:MET:O	1:AV:25:HIS:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:40:VAL:HG13	1:AV:211:TYR:HD1	1.86	0.40
1:AV:66:LEU:C	1:AV:68:TRP:H	2.30	0.40
1:AV:72:LEU:O	1:AV:75:CYS:SG	2.76	0.40
1:AW:82:LEU:HG	1:AW:83:GLU:H	1.86	0.40
1:AW:168:PRO:HB3	2:CX:180:PRO:HB3	2.03	0.40
1:AX:175:GLY:O	3:DU:176:VAL:HG12	2.21	0.40
1:AY:66:LEU:C	1:AY:68:TRP:H	2.30	0.40
1:AY:108:PRO:O	1:AZ:242:ASN:ND2	2.54	0.40
1:AZ:219:TYR:HD2	3:D0:39:ARG:HB2	1.79	0.40
1:Aa:131:GLN:O	1:Aa:132:GLN:C	2.65	0.40
1:Aa:164:TRP:HE1	1:Aa:187:LEU:CD1	2.28	0.40
1:Aa:176:ALA:C	1:Aa:178:THR:N	2.79	0.40
1:Ab:224:ILE:HA	1:Ab:225:PRO:HD2	1.86	0.40
1:Ac:43:LEU:N	1:Ac:43:LEU:CD2	2.74	0.40
1:Ac:170:PHE:HD2	1:Ac:222:ARG:NH1	2.17	0.40
1:Ac:220:CYS:HA	1:Ac:221:PRO:HD2	1.82	0.40
1:Ac:221:PRO:HA	3:De:40:PHE:HE2	1.87	0.40
1:Ad:107:PHE:CE1	1:Ad:196:LEU:HB2	2.55	0.40
1:Ad:224:ILE:CD1	3:Df:89:TYR:CE1	3.04	0.40
1:Ae:72:LEU:O	1:Ae:75:CYS:SG	2.76	0.40
1:Af:221:PRO:HA	3:Dh:40:PHE:HE2	1.87	0.40
1:Ag:175:GLY:O	3:De:176:VAL:HG12	2.21	0.40
1:Ah:17:HIS:O	1:Ah:19:LEU:N	2.55	0.40
1:Ah:42:THR:O	1:Ah:42:THR:CG2	2.69	0.40
1:Ah:107:PHE:CE1	1:Ah:196:LEU:HB2	2.55	0.40
1:Ah:140:PRO:HB3	3:Dj:25:LEU:HB3	2.03	0.40
1:Ai:66:LEU:C	1:Ai:68:TRP:H	2.30	0.40
1:Ai:172:ASN:OD1	1:Ai:184:TYR:OH	2.27	0.40
1:Aj:42:THR:O	1:Aj:42:THR:CG2	2.69	0.40
1:Aj:55:HIS:O	1:Aj:194:SER:HA	2.21	0.40
1:Aj:184:TYR:HE2	2:Cl:139:ALA:HB2	1.86	0.40
1:Aj:234:LYS:HA	1:Aj:234:LYS:HD3	1.89	0.40
1:Ak:24:MET:O	1:Ak:25:HIS:HB2	2.21	0.40
1:Ak:220:CYS:HA	1:Ak:221:PRO:HD2	1.82	0.40
1:Al:55:HIS:O	1:Al:194:SER:HA	2.21	0.40
1:Am:38:PHE:CD2	1:Am:68:TRP:HB2	2.56	0.40
1:Am:42:THR:O	1:Am:42:THR:CG2	2.69	0.40
1:An:42:THR:O	1:An:42:THR:CG2	2.69	0.40
1:An:144:PHE:CD1	1:An:144:PHE:C	2.99	0.40
1:An:160:TYR:OH	1:An:167:VAL:HG23	2.21	0.40
1:Ao:160:TYR:OH	1:Ao:167:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:164:TRP:HE1	1:BA:187:LEU:CD1	2.28	0.40
1:BA:168:PRO:HB3	2:Cp:180:PRO:HB3	2.03	0.40
1:BA:172:ASN:OD1	1:BA:184:TYR:OH	2.27	0.40
1:BB:101:PHE:CD2	1:BB:143:VAL:CG1	2.91	0.40
1:BB:108:PRO:O	1:BC:242:ASN:ND2	2.54	0.40
1:BC:221:PRO:HA	3:Dr:40:PHE:HE2	1.87	0.40
1:BD:38:PHE:CE2	1:BD:68:TRP:HB2	2.56	0.40
1:BD:221:PRO:HA	3:Ds:40:PHE:HE2	1.87	0.40
1:BE:41:GLU:OE2	1:BE:211:TYR:OH	2.39	0.40
1:BE:92:THR:HB	1:BE:93:THR:H	1.62	0.40
1:BE:224:ILE:CD1	3:EA:89:TYR:CE1	3.04	0.40
1:BE:225:PRO:HA	1:BE:226:PRO:HD2	1.88	0.40
1:BF:24:MET:O	1:BF:25:HIS:HB2	2.21	0.40
1:BF:101:PHE:O	1:BF:199:SER:OG	2.33	0.40
1:BG:55:HIS:O	1:BG:194:SER:HA	2.21	0.40
1:BG:113:THR:HG22	1:BG:114:LYS:N	2.36	0.40
1:BG:132:GLN:OE1	1:BH:66:LEU:HD21	2.20	0.40
1:BH:144:PHE:CD1	1:BH:144:PHE:C	2.99	0.40
1:BH:220:CYS:HA	1:BH:221:PRO:HD2	1.82	0.40
1:BI:113:THR:HG22	1:BI:114:LYS:N	2.36	0.40
1:BI:131:GLN:O	1:BI:132:GLN:C	2.65	0.40
1:BI:144:PHE:CD1	1:BI:144:PHE:C	2.99	0.40
1:BI:224:ILE:HD11	3:EE:89:TYR:CE1	2.55	0.40
2:C0:28:GLY:O	2:C0:168:ASN:HB2	2.20	0.40
2:C0:149:ALA:O	2:C0:152:TYR:CD2	2.74	0.40
2:C1:28:GLY:O	2:C1:168:ASN:HB2	2.21	0.40
2:C2:28:GLY:O	2:C2:168:ASN:HB2	2.20	0.40
2:C3:213:MET:HE2	2:C3:215:VAL:CG2	2.47	0.40
2:C4:23:ILE:N	2:C4:23:ILE:CD1	2.81	0.40
2:C4:213:MET:HE2	2:C4:215:VAL:CG2	2.47	0.40
2:C6:15:GLU:CB	2:C6:29:SER:HB2	2.52	0.40
2:C6:149:ALA:O	2:C6:152:TYR:CD2	2.74	0.40
2:C7:153:GLN:HE22	3:D7:55:SER:N	2.19	0.40
2:C8:68:GLU:O	2:C8:69:TRP:C	2.63	0.40
2:C8:160:HIS:ND1	2:C8:160:HIS:N	2.69	0.40
2:CA:153:GLN:HE22	3:DA:55:SER:N	2.19	0.40
2:CC:149:ALA:O	2:CC:152:TYR:CD2	2.75	0.40
2:CE:149:ALA:O	2:CE:152:TYR:CD2	2.75	0.40
2:CE:215:VAL:HG12	2:CE:216:ALA:N	2.36	0.40
2:CF:103:LEU:O	2:CF:223:ASN:ND2	2.49	0.40
2:CF:149:ALA:O	2:CF:152:TYR:CD2	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:152:TYR:HB3	2:CF:197:LEU:CD2	2.51	0.40
2:CG:134:HIS:HB3	2:CG:135:THR:H	1.46	0.40
2:CG:160:HIS:N	2:CG:160:HIS:ND1	2.70	0.40
2:CH:15:GLU:CB	2:CH:29:SER:HB2	2.52	0.40
2:CH:160:HIS:ND1	2:CH:160:HIS:N	2.70	0.40
2:CK:149:ALA:O	2:CK:152:TYR:CD2	2.74	0.40
2:CL:13:ARG:HD3	2:CL:13:ARG:HA	1.72	0.40
2:CN:26:SER:O	2:CN:27:GLN:C	2.64	0.40
2:CO:117:SER:HB3	3:DP:192:THR:CG2	2.47	0.40
2:CP:15:GLU:CB	2:CP:29:SER:HB2	2.52	0.40
2:CQ:48:SER:N	3:DR:160:TYR:O	2.52	0.40
2:CQ:69:TRP:CZ3	2:CQ:124:LEU:HD21	2.56	0.40
2:CR:69:TRP:CD1	2:CR:70:PRO:N	2.89	0.40
2:CR:149:ALA:O	2:CR:152:TYR:CD2	2.74	0.40
2:CR:153:GLN:HE22	3:DR:55:SER:N	2.19	0.40
2:CS:175:MET:H	2:CS:175:MET:HG2	1.79	0.40
2:CT:64:PHE:CD1	2:CT:64:PHE:N	2.90	0.40
2:CU:152:TYR:HB3	2:CU:197:LEU:CD2	2.51	0.40
2:CV:26:SER:O	2:CV:27:GLN:C	2.64	0.40
2:CX:216:ALA:HA	2:CX:217:PRO:HD3	1.78	0.40
2:CY:15:GLU:CB	2:CY:29:SER:HB2	2.52	0.40
2:CY:149:ALA:O	2:CY:152:TYR:CD2	2.75	0.40
2:CZ:69:TRP:CZ3	2:CZ:124:LEU:HD21	2.56	0.40
2:Ca:15:GLU:CB	2:Ca:29:SER:HB2	2.52	0.40
2:Cb:15:GLU:CB	2:Cb:29:SER:HB2	2.52	0.40
2:Cb:26:SER:O	2:Cb:27:GLN:C	2.64	0.40
2:Cb:215:VAL:HG12	2:Cb:216:ALA:N	2.36	0.40
2:Cc:26:SER:O	2:Cc:27:GLN:C	2.64	0.40
2:Cc:28:GLY:O	2:Cc:168:ASN:HB2	2.21	0.40
2:Cc:57:THR:O	2:Cc:58:LEU:CB	2.66	0.40
2:Cd:117:SER:HB3	3:D4:192:THR:CG2	2.47	0.40
2:Ce:15:GLU:CB	2:Ce:29:SER:HB2	2.52	0.40
2:Ce:69:TRP:CZ3	2:Ce:124:LEU:HD21	2.56	0.40
2:Ce:149:ALA:O	2:Ce:152:TYR:CD2	2.75	0.40
2:Cf:64:PHE:CD1	2:Cf:64:PHE:N	2.90	0.40
2:Cf:139:ALA:O	2:Cf:140:LEU:HB2	2.21	0.40
2:Cg:69:TRP:CZ3	2:Cg:124:LEU:HD21	2.56	0.40
2:Cg:153:GLN:HE22	3:Dg:55:SER:CB	2.33	0.40
2:Ch:139:ALA:O	2:Ch:140:LEU:HB2	2.21	0.40
2:Ci:57:THR:O	2:Ci:58:LEU:CB	2.66	0.40
2:Ci:216:ALA:HA	2:Ci:217:PRO:HD3	1.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cj:28:GLY:O	2:Cj:168:ASN:HB2	2.21	0.40
2:Cj:139:ALA:O	2:Cj:140:LEU:HB2	2.21	0.40
2:Cm:103:LEU:HD12	2:Cm:223:ASN:HB2	2.03	0.40
2:Cn:139:ALA:O	2:Cn:140:LEU:HB2	2.21	0.40
2:Cn:166:ARG:O	2:Cn:166:ARG:HG3	2.22	0.40
2:Co:26:SER:O	2:Co:27:GLN:C	2.64	0.40
2:Cq:15:GLU:CB	2:Cq:29:SER:HB2	2.52	0.40
2:Cq:36:TYR:CE2	2:Cq:130:PRO:CG	2.98	0.40
2:Cq:160:HIS:ND1	2:Cq:160:HIS:N	2.70	0.40
2:Cq:215:VAL:HG12	2:Cq:216:ALA:N	2.36	0.40
2:Cr:15:GLU:CB	2:Cr:29:SER:HB2	2.52	0.40
2:Cr:152:TYR:HB3	2:Cr:197:LEU:CD2	2.51	0.40
2:Cs:28:GLY:O	2:Cs:168:ASN:HB2	2.21	0.40
2:Ct:28:GLY:O	2:Ct:168:ASN:HB2	2.20	0.40
2:Ct:88:LEU:C	2:Ct:90:LYS:N	2.79	0.40
2:Cu:64:PHE:CD1	2:Cu:64:PHE:N	2.90	0.40
2:Cu:139:ALA:O	2:Cu:140:LEU:HB2	2.21	0.40
2:Cu:152:TYR:HB3	2:Cu:197:LEU:CD2	2.51	0.40
2:Cu:208:THR:O	2:Cu:209:VAL:CG2	2.69	0.40
2:Cv:69:TRP:CZ3	2:Cv:124:LEU:HD21	2.56	0.40
2:Cv:88:LEU:C	2:Cv:90:LYS:N	2.79	0.40
2:Cw:149:ALA:O	2:Cw:152:TYR:CD2	2.75	0.40
2:Cx:103:LEU:HD12	2:Cx:223:ASN:HB2	2.03	0.40
2:Cx:115:ASN:C	3:Do:119:LYS:NZ	2.77	0.40
3:D0:113:ALA:HB2	3:D0:199:ASN:CG	2.46	0.40
3:D4:18:VAL:O	3:D4:20:ASP:N	2.55	0.40
3:D4:31:VAL:CB	4:F4:34:ILE:O	2.69	0.40
3:D6:8:VAL:CG1	3:D6:9:PRO:HD2	2.39	0.40
3:D7:6:VAL:HG12	3:D8:3:ILE:O	2.22	0.40
3:D7:169:VAL:O	3:D7:169:VAL:CG1	2.69	0.40
3:DA:84:GLU:N	3:DA:84:GLU:CD	2.79	0.40
3:DB:100:TYR:HA	3:DB:215:SER:O	2.21	0.40
3:DC:27:PRO:CB	4:FC:30:TYR:HA	2.51	0.40
3:DC:29:VAL:HG13	3:DD:218:HIS:HE1	1.87	0.40
3:DD:31:VAL:CB	4:FD:34:ILE:O	2.69	0.40
3:DD:175:THR:OG1	3:DD:178:ASN:CG	2.65	0.40
3:DE:44:ILE:O	3:DE:45:ASP:C	2.65	0.40
3:DF:53:PHE:N	3:DF:53:PHE:CD1	2.88	0.40
3:DF:54:CYS:SG	3:DF:208:VAL:HG21	2.61	0.40
3:DI:44:ILE:O	3:DI:45:ASP:C	2.65	0.40
3:DJ:86:HIS:ND1	3:DJ:86:HIS:C	2.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:121:LEU:C	3:DJ:121:LEU:CD2	2.89	0.40
3:DK:44:ILE:O	3:DK:45:ASP:C	2.65	0.40
3:DK:100:TYR:HA	3:DK:215:SER:O	2.21	0.40
3:DK:113:ALA:HB2	3:DK:199:ASN:CG	2.46	0.40
3:DK:120:PHE:HD2	3:DK:146:TRP:CZ2	2.38	0.40
3:DK:157:ASN:ND2	3:DK:157:ASN:C	2.80	0.40
3:DL:31:VAL:CB	4:FL:34:ILE:O	2.69	0.40
3:DL:84:GLU:CD	3:DL:84:GLU:N	2.79	0.40
3:DL:113:ALA:HB2	3:DL:199:ASN:CG	2.46	0.40
3:DM:86:HIS:ND1	3:DM:86:HIS:C	2.77	0.40
3:DO:101:ARG:HH12	3:DO:165:ASP:HB3	1.84	0.40
3:DP:3:ILE:O	3:DT:6:VAL:HG12	2.22	0.40
3:DP:84:GLU:CD	3:DP:84:GLU:N	2.79	0.40
3:DQ:43:PHE:O	3:DQ:44:ILE:C	2.60	0.40
3:DR:84:GLU:CD	3:DR:84:GLU:N	2.79	0.40
3:DR:175:THR:OG1	3:DR:178:ASN:CG	2.65	0.40
3:DS:100:TYR:HA	3:DS:215:SER:O	2.21	0.40
3:DU:18:VAL:O	3:DU:20:ASP:N	2.55	0.40
3:DU:29:VAL:HG13	3:DV:218:HIS:HE1	1.87	0.40
3:DU:169:VAL:O	3:DU:169:VAL:CG1	2.69	0.40
3:DW:44:ILE:O	3:DW:45:ASP:C	2.65	0.40
3:DX:29:VAL:HG13	3:DY:218:HIS:HE1	1.87	0.40
3:DX:152:SER:O	3:DX:153:ALA:HB2	2.21	0.40
3:DY:175:THR:OG1	3:DY:178:ASN:CG	2.65	0.40
3:Da:79:SER:O	3:Da:81:SER:N	2.51	0.40
3:Da:152:SER:O	3:Da:153:ALA:HB2	2.21	0.40
3:Db:121:LEU:O	3:Db:186:TYR:N	2.39	0.40
3:Dc:31:VAL:CB	4:Fc:34:ILE:O	2.69	0.40
3:Dc:152:SER:O	3:Dc:153:ALA:HB2	2.21	0.40
3:Dd:47:ALA:HB2	3:Dd:89:TYR:CD2	2.56	0.40
3:De:47:ALA:HB2	3:De:89:TYR:CD2	2.56	0.40
3:De:64:VAL:HG13	3:De:120:PHE:HE1	1.86	0.40
3:De:113:ALA:HB2	3:De:199:ASN:CG	2.46	0.40
3:De:175:THR:OG1	3:De:178:ASN:CG	2.65	0.40
3:Df:175:THR:OG1	3:Df:178:ASN:CG	2.65	0.40
3:Dg:103:SER:OG	3:Dg:213:ASP:OD2	2.39	0.40
3:Di:47:ALA:HB2	3:Di:89:TYR:CD2	2.56	0.40
3:Dj:119:LYS:HG2	3:Dj:147:ASP:CG	2.45	0.40
3:Dj:169:VAL:O	3:Dj:169:VAL:CG1	2.69	0.40
3:DI:169:VAL:O	3:DI:169:VAL:CG1	2.70	0.40
3:Dm:64:VAL:HG13	3:Dm:120:PHE:HE1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dn:134:THR:HG1	3:Dn:137:GLU:HG3	1.86	0.40
3:Dn:157:ASN:ND2	3:Dn:157:ASN:C	2.80	0.40
3:Do:175:THR:OG1	3:Do:178:ASN:CG	2.65	0.40
3:Dp:86:HIS:ND1	3:Dp:86:HIS:C	2.77	0.40
3:Dr:100:TYR:HA	3:Dr:215:SER:O	2.21	0.40
3:Ds:119:LYS:HG2	3:Ds:147:ASP:CG	2.45	0.40
3:EA:64:VAL:HG13	3:EA:120:PHE:HE1	1.85	0.40
3:EA:175:THR:OG1	3:EA:178:ASN:CG	2.65	0.40
3:EB:18:VAL:O	3:EB:20:ASP:N	2.55	0.40
3:EB:45:ASP:O	3:EB:49:GLN:HG2	2.22	0.40
3:EB:175:THR:OG1	3:EB:178:ASN:CG	2.65	0.40
3:EC:29:VAL:HG13	3:ED:218:HIS:HE1	1.87	0.40
3:EC:100:TYR:HA	3:EC:215:SER:O	2.21	0.40
3:ED:115:ALA:CB	3:ED:194:THR:OG1	2.67	0.40
3:EE:175:THR:OG1	3:EE:178:ASN:CG	2.65	0.40
4:F9:32:ASN:HB3	4:F9:33:SER:H	1.58	0.40
4:Fa:31:GLN:HA	4:Fa:31:GLN:HE21	1.85	0.40
4:Fv:29:GLN:HB2	4:Fv:30:TYR:HD1	1.84	0.40
1:A0:17:HIS:O	1:A0:19:LEU:N	2.55	0.40
1:A0:49:THR:CG2	1:A0:50:GLY:N	2.83	0.40
1:A0:224:ILE:CD1	3:D1:89:TYR:CE1	3.04	0.40
1:A1:38:PHE:CD2	1:A1:68:TRP:HB2	2.56	0.40
1:A1:66:LEU:O	1:A1:68:TRP:N	2.55	0.40
1:A1:175:GLY:O	3:D3:176:VAL:HG12	2.21	0.40
1:A1:176:ALA:C	1:A1:178:THR:N	2.79	0.40
1:A1:195:ILE:HD13	1:A1:209:LEU:HD21	2.04	0.40
1:A2:113:THR:HG22	1:A2:114:LYS:N	2.36	0.40
1:A3:110:GLY:O	1:A4:241:THR:CG2	2.69	0.40
1:A3:243:ILE:H	1:A3:243:ILE:HG13	1.70	0.40
1:A4:38:PHE:CD2	1:A4:68:TRP:HB2	2.56	0.40
1:A4:42:THR:O	1:A4:42:THR:CG2	2.69	0.40
1:A4:144:PHE:CD1	1:A4:144:PHE:C	2.99	0.40
1:A4:175:GLY:O	3:D6:176:VAL:HG12	2.21	0.40
1:A4:176:ALA:C	1:A4:178:THR:N	2.79	0.40
1:A5:168:PRO:HB3	2:C6:180:PRO:HB3	2.03	0.40
1:A5:243:ILE:H	1:A5:243:ILE:HG13	1.70	0.40
1:A6:224:ILE:CG1	3:D7:89:TYR:CE1	3.05	0.40
1:A7:42:THR:O	1:A7:42:THR:CG2	2.69	0.40
1:A8:175:GLY:O	3:Da:176:VAL:HG12	2.21	0.40
1:A8:208:TYR:CE2	1:Ab:103:TRP:CZ2	3.06	0.40
1:A9:17:HIS:O	1:A9:19:LEU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:41:GLU:OE2	1:A9:211:TYR:OH	2.39	0.40
1:A9:108:PRO:O	1:An:242:ASN:ND2	2.54	0.40
1:A9:113:THR:HG22	1:A9:114:LYS:N	2.36	0.40
1:A9:144:PHE:CD1	1:A9:144:PHE:C	2.99	0.40
1:AB:38:PHE:CE2	1:AB:68:TRP:HB2	2.56	0.40
1:AB:76:THR:CB	1:AB:220:CYS:HB2	2.49	0.40
1:AB:140:PRO:HB3	3:DB:25:LEU:HB3	2.03	0.40
1:AB:225:PRO:HA	1:AB:226:PRO:HD2	1.88	0.40
1:AC:17:HIS:O	1:AC:19:LEU:N	2.55	0.40
1:AC:184:TYR:CE2	2:CC:139:ALA:CB	3.03	0.40
1:AD:17:HIS:O	1:AD:19:LEU:N	2.55	0.40
1:AD:144:PHE:CD1	1:AD:144:PHE:C	2.99	0.40
1:AD:184:TYR:HE2	2:CD:139:ALA:HB2	1.86	0.40
1:AF:234:LYS:HA	1:AF:234:LYS:HD3	1.89	0.40
1:AG:113:THR:HG22	1:AG:114:LYS:N	2.36	0.40
1:AI:38:PHE:CE2	1:AI:68:TRP:HB2	2.56	0.40
1:AI:55:HIS:O	1:AI:194:SER:HA	2.21	0.40
1:AI:184:TYR:HE2	2:CI:139:ALA:HB2	1.86	0.40
1:AI:191:HIS:HB2	1:AI:192:PHE:H	1.71	0.40
1:AJ:38:PHE:CD2	1:AJ:68:TRP:HB2	2.56	0.40
1:AJ:42:THR:O	1:AJ:42:THR:CG2	2.69	0.40
1:AJ:175:GLY:O	3:DF:176:VAL:HG12	2.22	0.40
1:AK:110:GLY:O	1:AL:241:THR:CG2	2.70	0.40
1:AK:175:GLY:O	3:DL:176:VAL:HG12	2.21	0.40
1:AL:112:PRO:CG	3:DM:223:PRO:HD3	2.50	0.40
1:AM:87:GLN:O	1:AM:88:PHE:CB	2.62	0.40
1:AN:121:LEU:HD21	1:AO:206:GLY:CA	2.47	0.40
1:AO:184:TYR:HE2	2:CO:139:ALA:HB3	1.84	0.40
1:AP:43:LEU:HD23	1:AP:43:LEU:H	1.81	0.40
1:AR:43:LEU:HD23	1:AR:43:LEU:H	1.81	0.40
1:AR:103:TRP:CZ2	1:Ao:208:TYR:CE2	3.06	0.40
1:AS:206:GLY:CA	1:Ao:121:LEU:HD21	2.47	0.40
1:AT:110:GLY:O	1:AU:241:THR:CG2	2.70	0.40
1:AT:138:MET:HE1	1:AU:71:LEU:HD11	2.02	0.40
1:AU:17:HIS:O	1:AU:19:LEU:N	2.55	0.40
1:AU:42:THR:O	1:AU:42:THR:CG2	2.69	0.40
1:AU:144:PHE:C	1:AU:144:PHE:CD1	2.99	0.40
1:AU:221:PRO:HA	3:DV:40:PHE:HE2	1.87	0.40
1:AV:108:PRO:O	1:AW:242:ASN:ND2	2.54	0.40
1:AV:175:GLY:O	3:DX:176:VAL:HG12	2.21	0.40
1:AW:55:HIS:O	1:AW:194:SER:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:66:LEU:C	1:AW:68:TRP:H	2.30	0.40
1:AW:66:LEU:O	1:AW:68:TRP:N	2.55	0.40
1:AW:140:PRO:HB3	3:DX:25:LEU:HB3	2.02	0.40
1:AW:176:ALA:C	1:AW:178:THR:N	2.79	0.40
1:AX:17:HIS:O	1:AX:19:LEU:N	2.55	0.40
1:AX:82:LEU:HG	1:AX:83:GLU:H	1.86	0.40
1:AY:49:THR:CG2	1:AY:50:GLY:N	2.83	0.40
1:Aa:144:PHE:CD1	1:Aa:144:PHE:C	2.99	0.40
1:Ab:174:TRP:CD1	1:Ab:184:TYR:HA	2.56	0.40
1:Ac:224:ILE:CD1	3:De:89:TYR:CE1	3.04	0.40
1:Ac:224:ILE:CG1	3:De:89:TYR:CE1	3.05	0.40
1:Ad:24:MET:O	1:Ad:25:HIS:HB2	2.21	0.40
1:Ad:40:VAL:HG13	1:Ad:211:TYR:HD1	1.86	0.40
1:Ad:103:TRP:CZ2	1:Ae:208:TYR:CE2	3.06	0.40
1:Ad:176:ALA:C	1:Ad:178:THR:N	2.79	0.40
1:Ae:224:ILE:CD1	3:Dg:89:TYR:CE1	3.04	0.40
1:Af:41:GLU:OE2	1:Af:211:TYR:OH	2.39	0.40
1:Af:174:TRP:CD1	1:Af:184:TYR:HA	2.56	0.40
1:Af:219:TYR:HD2	3:Dh:39:ARG:HB2	1.79	0.40
1:Ag:43:LEU:HD23	1:Ag:43:LEU:H	1.81	0.40
1:Ag:131:GLN:O	1:Ag:132:GLN:C	2.65	0.40
1:Ah:24:MET:O	1:Ah:25:HIS:HB2	2.21	0.40
1:Ah:62:SER:HB2	1:Ah:73:ASN:ND2	2.27	0.40
1:Ah:160:TYR:OH	1:Ah:167:VAL:HG23	2.21	0.40
1:Ai:224:ILE:CD1	3:Dk:89:TYR:CE1	3.04	0.40
1:Aj:38:PHE:CD2	1:Aj:68:TRP:HB2	2.56	0.40
1:Aj:92:THR:HB	1:Aj:93:THR:H	1.62	0.40
1:Aj:131:GLN:O	1:Aj:132:GLN:C	2.65	0.40
1:Ak:17:HIS:O	1:Ak:19:LEU:N	2.55	0.40
1:Ak:176:ALA:C	1:Ak:178:THR:N	2.79	0.40
1:Ak:219:TYR:CE2	3:Dm:39:ARG:HD2	2.55	0.40
1:Al:131:GLN:O	1:Al:132:GLN:C	2.65	0.40
1:Al:174:TRP:CD1	1:Al:184:TYR:HA	2.56	0.40
1:Am:146:ILE:HD13	1:Am:146:ILE:HG21	1.74	0.40
1:Am:224:ILE:CD1	3:Do:89:TYR:CE1	3.04	0.40
1:Am:242:ASN:ND2	1:BD:108:PRO:O	2.54	0.40
1:An:107:PHE:CE1	1:An:196:LEU:HB2	2.55	0.40
1:An:170:PHE:HD2	1:An:222:ARG:NH1	2.17	0.40
1:Ao:6:GLU:O	2:CS:162:LEU:N	2.53	0.40
1:Ao:88:PHE:CA	1:Ao:207:CYS:HA	2.48	0.40
1:BA:66:LEU:O	1:BA:68:TRP:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:110:GLY:O	1:BB:241:THR:CG2	2.70	0.40
1:BC:49:THR:CG2	1:BC:50:GLY:N	2.83	0.40
1:BC:110:GLY:O	1:BD:241:THR:CG2	2.70	0.40
1:BC:138:MET:HE1	1:BD:71:LEU:HD11	2.02	0.40
1:BC:224:ILE:CD1	3:Dr:89:TYR:CE1	3.04	0.40
1:BD:87:GLN:HA	1:BD:153:ALA:HB2	2.02	0.40
1:BD:224:ILE:HD11	3:Ds:89:TYR:CE1	2.55	0.40
1:BE:66:LEU:C	1:BE:68:TRP:H	2.30	0.40
1:BE:71:LEU:HD11	1:BI:138:MET:HE1	2.03	0.40
1:BE:108:PRO:O	1:BF:242:ASN:ND2	2.54	0.40
1:BE:241:THR:CG2	1:BI:110:GLY:O	2.70	0.40
1:BF:40:VAL:HG13	1:BF:211:TYR:HD1	1.86	0.40
1:BG:66:LEU:C	1:BG:68:TRP:H	2.30	0.40
1:BG:107:PHE:CE1	1:BG:196:LEU:HB2	2.55	0.40
1:BG:172:ASN:OD1	1:BG:184:TYR:OH	2.27	0.40
1:BH:38:PHE:CD2	1:BH:68:TRP:HB2	2.56	0.40
1:BH:103:TRP:CZ2	1:BI:208:TYR:CE2	3.06	0.40
1:BH:121:LEU:HD21	1:BI:206:GLY:CA	2.47	0.40
1:BH:138:MET:HE1	1:BI:71:LEU:HD11	2.03	0.40
1:BI:17:HIS:O	1:BI:19:LEU:N	2.55	0.40
1:BI:24:MET:O	1:BI:25:HIS:HB2	2.21	0.40
1:BI:66:LEU:O	1:BI:68:TRP:N	2.55	0.40
1:BI:176:ALA:C	1:BI:178:THR:N	2.79	0.40
2:C0:54:LEU:HA	2:C0:54:LEU:HD23	1.84	0.40
2:C0:152:TYR:HB3	2:C0:197:LEU:CD2	2.51	0.40
2:C0:153:GLN:HE22	3:D0:55:SER:N	2.19	0.40
2:C2:69:TRP:CZ3	2:C2:124:LEU:HD21	2.56	0.40
2:C2:153:GLN:NE2	3:D2:53:PHE:O	2.50	0.40
2:C3:15:GLU:CB	2:C3:29:SER:HB2	2.52	0.40
2:C3:64:PHE:CD1	2:C3:64:PHE:N	2.90	0.40
2:C3:69:TRP:CZ3	2:C3:124:LEU:HD21	2.56	0.40
2:C3:152:TYR:HB3	2:C3:197:LEU:CD2	2.51	0.40
2:C4:88:LEU:C	2:C4:90:LYS:N	2.79	0.40
2:C4:215:VAL:HG12	2:C4:216:ALA:N	2.36	0.40
2:C5:64:PHE:CD1	2:C5:64:PHE:N	2.90	0.40
2:C5:69:TRP:CZ3	2:C5:124:LEU:HD21	2.56	0.40
2:C5:215:VAL:HG12	2:C5:216:ALA:N	2.36	0.40
2:C6:54:LEU:HD23	2:C6:54:LEU:HA	1.84	0.40
2:C6:68:GLU:O	2:C6:69:TRP:C	2.63	0.40
2:C7:149:ALA:O	2:C7:152:TYR:CD2	2.74	0.40
2:C7:152:TYR:HB3	2:C7:197:LEU:CD2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:160:HIS:N	2:CA:160:HIS:ND1	2.70	0.40
2:CA:215:VAL:HG12	2:CA:216:ALA:N	2.36	0.40
2:CC:69:TRP:CZ3	2:CC:124:LEU:HD21	2.56	0.40
2:CC:69:TRP:CD1	2:CC:70:PRO:N	2.89	0.40
2:CC:215:VAL:HG12	2:CC:216:ALA:N	2.36	0.40
2:CD:15:GLU:CB	2:CD:29:SER:HB2	2.52	0.40
2:CD:149:ALA:O	2:CD:152:TYR:CD2	2.74	0.40
2:CE:152:TYR:HB3	2:CE:197:LEU:CD2	2.51	0.40
2:CF:28:GLY:O	2:CF:168:ASN:HB2	2.21	0.40
2:CF:117:SER:HB3	3:D6:192:THR:CG2	2.48	0.40
2:CH:152:TYR:HB3	2:CH:197:LEU:CD2	2.51	0.40
2:CI:68:GLU:O	2:CI:69:TRP:C	2.63	0.40
2:CI:215:VAL:HG12	2:CI:216:ALA:N	2.36	0.40
2:CK:56:PRO:C	2:CK:57:THR:O	2.59	0.40
2:CM:152:TYR:HB3	2:CM:197:LEU:CD2	2.51	0.40
2:CN:49:ASP:HA	2:CN:50:PRO:HD2	1.80	0.40
2:CN:152:TYR:HB3	2:CN:197:LEU:CD2	2.51	0.40
2:CO:15:GLU:CB	2:CO:29:SER:HB2	2.52	0.40
2:CP:160:HIS:ND1	2:CP:160:HIS:N	2.69	0.40
2:CQ:149:ALA:O	2:CQ:152:TYR:CD2	2.75	0.40
2:CR:69:TRP:CZ3	2:CR:124:LEU:HD21	2.56	0.40
2:CR:166:ARG:O	2:CR:166:ARG:HG3	2.22	0.40
2:CS:36:TYR:CE2	2:CS:130:PRO:CG	2.98	0.40
2:CT:49:ASP:HA	2:CT:50:PRO:HD2	1.80	0.40
2:CU:166:ARG:O	2:CU:166:ARG:HG3	2.22	0.40
2:CV:15:GLU:CB	2:CV:29:SER:HB2	2.52	0.40
2:CV:23:ILE:N	2:CV:23:ILE:CD1	2.81	0.40
2:CV:139:ALA:O	2:CV:140:LEU:HB2	2.21	0.40
2:CV:149:ALA:O	2:CV:152:TYR:CD2	2.74	0.40
2:CX:64:PHE:CD1	2:CX:64:PHE:N	2.90	0.40
2:CX:69:TRP:CD1	2:CX:70:PRO:N	2.89	0.40
2:CY:69:TRP:CD1	2:CY:70:PRO:N	2.89	0.40
2:Ca:139:ALA:O	2:Ca:140:LEU:HB2	2.21	0.40
2:Ca:160:HIS:ND1	2:Ca:160:HIS:N	2.69	0.40
2:Cb:13:ARG:HD3	2:Cb:13:ARG:HA	1.72	0.40
2:Cb:23:ILE:N	2:Cb:23:ILE:CD1	2.81	0.40
2:Cc:46:THR:CG2	3:Dd:165:ASP:HA	2.38	0.40
2:Cc:64:PHE:CD1	2:Cc:64:PHE:N	2.89	0.40
2:Cd:26:SER:O	2:Cd:27:GLN:C	2.64	0.40
2:Cd:69:TRP:CZ3	2:Cd:124:LEU:HD21	2.56	0.40
2:Cd:103:LEU:HD12	2:Cd:223:ASN:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cf:15:GLU:CB	2:Cf:29:SER:HB2	2.52	0.40
2:Cf:87:LYS:HG3	2:Cf:142:TRP:CG	2.57	0.40
2:Cf:149:ALA:O	2:Cf:152:TYR:CD2	2.75	0.40
2:Ch:58:LEU:HB3	2:Ch:59:SER:H	1.65	0.40
2:Cj:215:VAL:HG12	2:Cj:216:ALA:N	2.36	0.40
2:Ck:153:GLN:HE22	3:Dk:55:SER:N	2.19	0.40
2:Ck:213:MET:HE2	2:Ck:215:VAL:CG2	2.47	0.40
2:Cl:215:VAL:HG12	2:Cl:216:ALA:N	2.36	0.40
2:Cn:87:LYS:HG3	2:Cn:142:TRP:CG	2.57	0.40
2:Cn:153:GLN:HE22	3:Dn:55:SER:N	2.19	0.40
2:Co:64:PHE:CD1	2:Co:64:PHE:N	2.90	0.40
2:Co:115:ASN:C	3:DR:119:LYS:NZ	2.77	0.40
2:Co:160:HIS:ND1	2:Co:160:HIS:N	2.70	0.40
2:Cp:166:ARG:O	2:Cp:166:ARG:HG3	2.22	0.40
2:Cs:15:GLU:CB	2:Cs:29:SER:HB2	2.52	0.40
2:Ct:69:TRP:CZ3	2:Ct:124:LEU:HD21	2.56	0.40
2:Cv:57:THR:O	2:Cv:58:LEU:CB	2.66	0.40
2:Cx:149:ALA:O	2:Cx:152:TYR:CD2	2.75	0.40
3:D1:175:THR:OG1	3:D1:178:ASN:CG	2.65	0.40
3:D1:223:PRO:HB2	3:D1:224:ASP:H	1.71	0.40
3:D2:18:VAL:O	3:D2:20:ASP:N	2.55	0.40
3:D3:18:VAL:O	3:D3:20:ASP:N	2.55	0.40
3:D3:103:SER:OG	3:D3:213:ASP:OD2	2.39	0.40
3:D4:47:ALA:HB2	3:D4:89:TYR:CD2	2.56	0.40
3:D5:6:VAL:HG12	3:D6:3:ILE:O	2.22	0.40
3:D5:169:VAL:O	3:D5:169:VAL:CG1	2.69	0.40
3:D5:175:THR:OG1	3:D5:178:ASN:CG	2.65	0.40
3:D6:101:ARG:HH12	3:D6:165:ASP:HB3	1.84	0.40
3:D6:103:SER:OG	3:D6:213:ASP:OD2	2.39	0.40
3:D7:29:VAL:HG13	3:D8:218:HIS:HE1	1.87	0.40
3:D8:100:TYR:HA	3:D8:215:SER:O	2.21	0.40
3:D8:152:SER:O	3:D8:153:ALA:HB2	2.21	0.40
3:DA:8:VAL:CG1	3:DA:9:PRO:HD2	2.39	0.40
3:DA:29:VAL:HG13	3:DB:218:HIS:HE1	1.87	0.40
3:DB:75:GLN:NE2	3:DB:184:GLN:OE1	2.49	0.40
3:DB:169:VAL:O	3:DB:169:VAL:CG1	2.69	0.40
3:DB:175:THR:OG1	3:DB:178:ASN:CG	2.65	0.40
3:DC:21:ASN:HB2	3:DC:22:SER:H	1.74	0.40
3:DC:157:ASN:ND2	3:DC:157:ASN:C	2.80	0.40
3:DD:134:THR:HG1	3:DD:137:GLU:HG3	1.86	0.40
3:DD:169:VAL:O	3:DD:169:VAL:CG1	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DE:138:ALA:O	3:DE:141:CYS:SG	2.78	0.40
3:DF:3:ILE:O	3:DJ:6:VAL:HG12	2.22	0.40
3:DF:218:HIS:HE1	3:DJ:29:VAL:HG13	1.87	0.40
3:DG:113:ALA:HB2	3:DG:199:ASN:CG	2.46	0.40
3:DJ:8:VAL:CG1	3:DJ:9:PRO:HD2	2.39	0.40
3:DK:3:ILE:O	3:DO:6:VAL:HG12	2.22	0.40
3:DK:6:VAL:HG12	3:DL:3:ILE:O	2.22	0.40
3:DK:29:VAL:HG13	3:DL:218:HIS:HE1	1.86	0.40
3:DL:18:VAL:O	3:DL:20:ASP:N	2.55	0.40
3:DM:29:VAL:HG13	3:DN:218:HIS:HE1	1.87	0.40
3:DM:79:SER:O	3:DM:81:SER:N	2.51	0.40
3:DM:168:ALA:C	3:DM:170:TYR:H	2.29	0.40
3:DP:31:VAL:CB	4:FP:34:ILE:O	2.69	0.40
3:DP:36:VAL:HA	3:DP:37:PRO:HD3	1.53	0.40
3:DQ:100:TYR:HA	3:DQ:215:SER:O	2.21	0.40
3:DQ:103:SER:OG	3:DQ:213:ASP:OD2	2.39	0.40
3:DR:223:PRO:HB2	3:DR:224:ASP:H	1.71	0.40
3:DS:115:ALA:CB	3:DS:194:THR:OG1	2.67	0.40
3:DS:119:LYS:HG2	3:DS:147:ASP:CG	2.45	0.40
3:DT:23:THR:HA	3:DT:24:PRO:HD3	1.89	0.40
3:DU:47:ALA:HB2	3:DU:89:TYR:CD2	2.56	0.40
3:DV:113:ALA:HB2	3:DV:199:ASN:CG	2.46	0.40
3:DV:119:LYS:HG2	3:DV:147:ASP:CG	2.45	0.40
3:DW:45:ASP:O	3:DW:49:GLN:HG2	2.22	0.40
3:DW:157:ASN:ND2	3:DW:157:ASN:C	2.80	0.40
3:DX:6:VAL:HG12	3:DY:3:ILE:O	2.22	0.40
3:DX:157:ASN:ND2	3:DX:157:ASN:C	2.80	0.40
3:DZ:100:TYR:HA	3:DZ:215:SER:O	2.21	0.40
3:DZ:175:THR:OG1	3:DZ:178:ASN:CG	2.65	0.40
3:Da:175:THR:OG1	3:Da:178:ASN:CG	2.65	0.40
3:Db:157:ASN:ND2	3:Db:157:ASN:C	2.79	0.40
3:Dc:6:VAL:HG12	3:Dd:3:ILE:O	2.22	0.40
3:Dc:103:SER:OG	3:Dc:213:ASP:OD2	2.39	0.40
3:Dc:157:ASN:ND2	3:Dc:157:ASN:C	2.80	0.40
3:Dc:175:THR:OG1	3:Dc:178:ASN:CG	2.65	0.40
3:Dd:103:SER:OG	3:Dd:213:ASP:OD2	2.39	0.40
3:Df:44:ILE:O	3:Df:45:ASP:C	2.65	0.40
3:Df:100:TYR:HA	3:Df:215:SER:O	2.21	0.40
3:Dg:44:ILE:O	3:Dg:45:ASP:C	2.65	0.40
3:Dg:45:ASP:O	3:Dg:49:GLN:HG2	2.22	0.40
3:Dg:175:THR:OG1	3:Dg:178:ASN:CG	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Dj:45:ASP:O	3:Dj:49:GLN:HG2	2.22	0.40
3:Dj:53:PHE:N	3:Dj:53:PHE:CD1	2.88	0.40
3:Dl:157:ASN:ND2	3:Dl:157:ASN:C	2.79	0.40
3:Dm:54:CYS:SG	3:Dm:208:VAL:HG21	2.61	0.40
3:Dm:115:ALA:CB	3:Dm:194:THR:OG1	2.67	0.40
3:Dm:152:SER:O	3:Dm:153:ALA:HB2	2.21	0.40
3:Dn:44:ILE:O	3:Dn:45:ASP:C	2.65	0.40
3:Do:44:ILE:O	3:Do:45:ASP:C	2.65	0.40
3:Do:54:CYS:SG	3:Do:208:VAL:HG21	2.61	0.40
3:Do:119:LYS:HG2	3:Do:147:ASP:CG	2.45	0.40
3:Dp:169:VAL:O	3:Dp:169:VAL:CG1	2.69	0.40
3:Dr:29:VAL:HG13	3:Ds:218:HIS:HE1	1.87	0.40
3:Dr:84:GLU:N	3:Dr:84:GLU:CD	2.79	0.40
3:Dr:115:ALA:CB	3:Dr:194:THR:OG1	2.67	0.40
3:Dr:175:THR:OG1	3:Dr:178:ASN:CG	2.65	0.40
3:Ds:152:SER:O	3:Ds:153:ALA:HB2	2.21	0.40
3:Ds:217:ARG:O	3:Ds:218:HIS:HB2	2.22	0.40
3:EA:44:ILE:O	3:EA:45:ASP:C	2.65	0.40
3:EA:113:ALA:HB2	3:EA:199:ASN:CG	2.46	0.40
3:EC:18:VAL:O	3:EC:20:ASP:N	2.55	0.40
3:EC:75:GLN:NE2	3:EC:184:GLN:OE1	2.49	0.40
3:ED:84:GLU:CD	3:ED:84:GLU:N	2.79	0.40
3:ED:217:ARG:O	3:ED:218:HIS:HB2	2.22	0.40
3:EE:217:ARG:O	3:EE:218:HIS:HB2	2.22	0.40
4:FQ:31:GLN:HB3	4:FQ:32:ASN:H	1.72	0.40
4:Fe:32:ASN:HB3	4:Fe:33:SER:H	1.58	0.40
1:A0:40:VAL:HG13	1:A0:211:TYR:HD1	1.86	0.40
1:A0:138:MET:HE1	1:A1:71:LEU:HD11	2.03	0.40
1:A0:174:TRP:CD1	1:A0:184:TYR:HA	2.56	0.40
1:A1:243:ILE:H	1:A1:243:ILE:HG13	1.70	0.40
1:A4:66:LEU:O	1:A4:68:TRP:N	2.55	0.40
1:A4:146:ILE:HG21	1:A4:146:ILE:HD13	1.74	0.40
1:A4:184:TYR:CE2	2:C5:139:ALA:CB	3.03	0.40
1:A4:221:PRO:HA	3:D5:40:PHE:HE2	1.87	0.40
1:A5:55:HIS:O	1:A5:194:SER:HA	2.21	0.40
1:A6:235:THR:HB	1:A6:236:ARG:H	1.65	0.40
1:A7:41:GLU:OE2	1:A7:211:TYR:OH	2.39	0.40
1:A8:17:HIS:O	1:A8:19:LEU:N	2.55	0.40
1:A8:82:LEU:HG	1:A8:83:GLU:H	1.86	0.40
1:A8:239:PHE:CD2	3:D9:226:GLN:NE2	2.87	0.40
1:AA:160:TYR:OH	1:AA:167:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:172:ASN:OD1	1:AA:184:TYR:OH	2.27	0.40
1:AA:176:ALA:C	1:AA:178:THR:N	2.79	0.40
1:AB:41:GLU:OE2	1:AB:211:TYR:OH	2.39	0.40
1:AB:131:GLN:O	1:AB:132:GLN:C	2.65	0.40
1:AC:24:MET:O	1:AC:25:HIS:HB2	2.21	0.40
1:AD:88:PHE:CA	1:AD:207:CYS:HA	2.48	0.40
1:AD:113:THR:HG22	1:AD:114:LYS:N	2.36	0.40
1:AD:172:ASN:OD1	1:AD:184:TYR:OH	2.27	0.40
1:AE:17:HIS:O	1:AE:19:LEU:N	2.55	0.40
1:AE:113:THR:HG22	1:AE:114:LYS:N	2.36	0.40
1:AE:175:GLY:O	3:DA:176:VAL:HG12	2.21	0.40
1:AF:43:LEU:HD23	1:AF:43:LEU:H	1.81	0.40
1:AF:138:MET:HE1	1:AG:71:LEU:HD11	2.03	0.40
1:AG:107:PHE:CE1	1:AG:196:LEU:HB2	2.55	0.40
1:AG:175:GLY:O	3:DH:176:VAL:HG12	2.21	0.40
1:AH:55:HIS:O	1:AH:194:SER:HA	2.21	0.40
1:AH:224:ILE:CD1	3:DH:89:TYR:CE1	3.04	0.40
1:AJ:24:MET:O	1:AJ:25:HIS:HB2	2.21	0.40
1:AJ:66:LEU:C	1:AJ:68:TRP:H	2.30	0.40
1:AJ:83:GLU:HA	1:AJ:156:PHE:O	2.22	0.40
1:AL:164:TRP:HE1	1:AL:187:LEU:CD1	2.28	0.40
1:AL:220:CYS:HA	1:AL:221:PRO:HD2	1.82	0.40
1:AM:176:ALA:C	1:AM:178:THR:N	2.79	0.40
1:AM:224:ILE:CD1	3:DM:89:TYR:CE1	3.04	0.40
1:AN:83:GLU:HA	1:AN:156:PHE:O	2.22	0.40
1:AN:112:PRO:CG	3:DO:223:PRO:HD3	2.50	0.40
1:AN:176:ALA:C	1:AN:178:THR:N	2.79	0.40
1:AN:224:ILE:CD1	3:DN:89:TYR:CE1	3.04	0.40
1:AO:17:HIS:O	1:AO:19:LEU:N	2.55	0.40
1:AO:42:THR:O	1:AO:42:THR:CG2	2.69	0.40
1:AP:38:PHE:CE2	1:AP:68:TRP:HB2	2.56	0.40
1:AP:55:HIS:O	1:AP:194:SER:HA	2.21	0.40
1:AP:66:LEU:C	1:AP:68:TRP:H	2.30	0.40
1:AP:175:GLY:O	3:DQ:176:VAL:HG12	2.21	0.40
1:AP:184:TYR:HE2	2:CP:139:ALA:HB2	1.86	0.40
1:AQ:101:PHE:CD2	1:AQ:143:VAL:CG1	2.91	0.40
1:AQ:160:TYR:OH	1:AQ:167:VAL:HG23	2.21	0.40
1:AQ:224:ILE:CG1	3:DQ:89:TYR:CE1	3.05	0.40
1:AR:17:HIS:O	1:AR:19:LEU:N	2.55	0.40
1:AS:40:VAL:HG13	1:AS:211:TYR:HD1	1.86	0.40
1:AS:75:CYS:CB	1:AS:218:MET:SD	3.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:140:PRO:HB3	3:DT:25:LEU:HB3	2.03	0.40
1:AS:184:TYR:CE2	2:CT:139:ALA:CB	3.03	0.40
1:AS:242:ASN:ND2	1:Ao:108:PRO:O	2.54	0.40
1:AT:17:HIS:O	1:AT:19:LEU:N	2.55	0.40
1:AT:76:THR:CB	1:AT:220:CYS:HB2	2.49	0.40
1:AT:108:PRO:O	1:AU:242:ASN:ND2	2.54	0.40
1:AU:138:MET:HE1	1:AV:71:LEU:HD11	2.02	0.40
1:AU:176:ALA:C	1:AU:178:THR:N	2.79	0.40
1:AV:17:HIS:O	1:AV:19:LEU:N	2.55	0.40
1:AV:93:THR:O	1:AV:95:SER:N	2.53	0.40
1:AV:131:GLN:O	1:AV:132:GLN:C	2.65	0.40
1:AV:140:PRO:HB3	3:DW:25:LEU:HB3	2.03	0.40
1:AW:108:PRO:O	1:AX:242:ASN:ND2	2.54	0.40
1:AW:138:MET:HE1	1:AX:71:LEU:HD11	2.03	0.40
1:AW:184:TYR:CE2	2:CX:139:ALA:CB	3.03	0.40
1:AW:224:ILE:CD1	3:DX:89:TYR:CE1	3.04	0.40
1:AX:140:PRO:HB3	3:DY:25:LEU:HB3	2.03	0.40
1:AY:83:GLU:HA	1:AY:156:PHE:O	2.22	0.40
1:AY:110:GLY:O	1:AZ:241:THR:CG2	2.70	0.40
1:AY:175:GLY:O	3:D0:176:VAL:HG12	2.22	0.40
1:AY:221:PRO:HA	3:DZ:40:PHE:HE2	1.87	0.40
1:AZ:66:LEU:C	1:AZ:68:TRP:H	2.30	0.40
1:AZ:147:ALA:C	1:AZ:149:SER:H	2.28	0.40
1:Aa:184:TYR:HE2	2:Cc:139:ALA:HB2	1.86	0.40
1:Aa:225:PRO:HA	1:Aa:226:PRO:HD2	1.88	0.40
1:Ab:88:PHE:CA	1:Ab:207:CYS:HA	2.48	0.40
1:Ab:101:PHE:O	1:Ab:199:SER:OG	2.33	0.40
1:Ab:140:PRO:HB3	3:Dd:25:LEU:HB3	2.03	0.40
1:Ac:82:LEU:HG	1:Ac:83:GLU:H	1.86	0.40
1:Ac:175:GLY:O	3:Df:176:VAL:HG12	2.21	0.40
1:Ad:108:PRO:O	1:Ae:242:ASN:ND2	2.54	0.40
1:Ad:110:GLY:O	1:Ae:241:THR:CG2	2.70	0.40
1:Ad:174:TRP:CD1	1:Ad:184:TYR:HA	2.56	0.40
1:Ad:175:GLY:O	3:Dg:176:VAL:HG12	2.21	0.40
1:Ae:40:VAL:HG13	1:Ae:211:TYR:HD1	1.86	0.40
1:Ae:175:GLY:O	3:Dh:176:VAL:HG12	2.21	0.40
1:Af:176:ALA:C	1:Af:178:THR:N	2.79	0.40
1:Ag:17:HIS:O	1:Ag:19:LEU:N	2.55	0.40
1:Ag:147:ALA:C	1:Ag:149:SER:H	2.28	0.40
1:Ag:221:PRO:HA	3:Di:40:PHE:HE2	1.87	0.40
1:Ah:38:PHE:CE2	1:Ah:68:TRP:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:138:MET:HE1	1:Ai:71:LEU:HD11	2.03	0.40
1:Ah:175:GLY:O	3:Dk:176:VAL:HG12	2.21	0.40
1:Ah:219:TYR:HD2	3:Dj:39:ARG:HB2	1.79	0.40
1:Ai:41:GLU:OE2	1:Ai:211:TYR:OH	2.39	0.40
1:Aj:17:HIS:O	1:Aj:19:LEU:N	2.55	0.40
1:Aj:147:ALA:C	1:Aj:149:SER:H	2.28	0.40
1:Ak:108:PRO:O	1:Al:242:ASN:ND2	2.54	0.40
1:Am:17:HIS:O	1:Am:19:LEU:N	2.55	0.40
1:Am:92:THR:HB	1:Am:93:THR:H	1.62	0.40
1:Am:174:TRP:CD1	1:Am:184:TYR:HA	2.56	0.40
1:An:40:VAL:HG13	1:An:211:TYR:HD1	1.86	0.40
1:Ao:24:MET:O	1:Ao:25:HIS:HB2	2.21	0.40
1:BA:41:GLU:OE2	1:BA:211:TYR:OH	2.39	0.40
1:BA:82:LEU:HG	1:BA:83:GLU:H	1.86	0.40
1:BA:224:ILE:CD1	3:Dp:89:TYR:CE1	3.04	0.40
1:BA:234:LYS:HA	1:BA:234:LYS:HD3	1.89	0.40
1:BB:103:TRP:CZ2	1:BC:208:TYR:CE2	3.06	0.40
1:BC:170:PHE:HD2	1:BC:222:ARG:NH1	2.17	0.40
1:BC:174:TRP:CD1	1:BC:184:TYR:HA	2.56	0.40
1:BD:17:HIS:O	1:BD:19:LEU:N	2.55	0.40
1:BE:66:LEU:O	1:BE:68:TRP:N	2.55	0.40
1:BE:82:LEU:HG	1:BE:83:GLU:H	1.87	0.40
1:BE:164:TRP:HE1	1:BE:187:LEU:CD1	2.28	0.40
1:BF:110:GLY:O	1:BG:241:THR:CG2	2.70	0.40
1:BF:121:LEU:HD21	1:BG:206:GLY:CA	2.47	0.40
1:BG:184:TYR:HE2	2:Cv:139:ALA:HB2	1.86	0.40
1:BH:224:ILE:CD1	3:ED:89:TYR:CE1	3.04	0.40
1:BI:83:GLU:HA	1:BI:156:PHE:O	2.22	0.40
1:BI:88:PHE:CA	1:BI:207:CYS:HA	2.48	0.40
1:BI:175:GLY:O	3:EA:176:VAL:HG12	2.22	0.40
2:C0:46:THR:CG2	3:D1:165:ASP:HA	2.38	0.40
2:C1:26:SER:C	3:DO:147:ASP:HB3	2.45	0.40
2:C2:139:ALA:O	2:C2:140:LEU:HB2	2.21	0.40
2:C2:160:HIS:N	2:C2:160:HIS:ND1	2.69	0.40
2:C4:80:ILE:HD13	2:C4:145:LEU:HB2	2.04	0.40
2:C4:152:TYR:HB3	2:C4:197:LEU:CD2	2.51	0.40
2:C5:83:LEU:HA	2:C5:84:PRO:HA	1.60	0.40
2:C5:152:TYR:HB3	2:C5:197:LEU:CD2	2.51	0.40
2:C7:58:LEU:HB3	2:C7:59:SER:H	1.65	0.40
2:C9:20:GLY:CA	2:C9:56:PRO:O	2.67	0.40
2:CA:69:TRP:CD1	2:CA:70:PRO:N	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:88:LEU:C	2:CA:90:LYS:N	2.79	0.40
2:CC:28:GLY:O	2:CC:168:ASN:HB2	2.21	0.40
2:CC:68:GLU:O	2:CC:69:TRP:C	2.63	0.40
2:CD:139:ALA:O	2:CD:140:LEU:HB2	2.21	0.40
2:CG:129:VAL:HA	2:CG:130:PRO:HD3	1.78	0.40
2:CG:215:VAL:HG12	2:CG:216:ALA:N	2.36	0.40
2:CH:153:GLN:HE22	3:DH:55:SER:N	2.19	0.40
2:CI:152:TYR:HB3	2:CI:197:LEU:CD2	2.51	0.40
2:CJ:64:PHE:CD1	2:CJ:64:PHE:N	2.89	0.40
2:CJ:69:TRP:CZ3	2:CJ:124:LEU:HD21	2.56	0.40
2:CK:139:ALA:O	2:CK:140:LEU:HB2	2.21	0.40
2:CM:49:ASP:HA	2:CM:50:PRO:HD2	1.80	0.40
2:CM:68:GLU:O	2:CM:69:TRP:C	2.63	0.40
2:CO:64:PHE:CD1	2:CO:64:PHE:N	2.90	0.40
2:CO:115:ASN:C	3:DP:119:LYS:NZ	2.77	0.40
2:CQ:103:LEU:HD12	2:CQ:223:ASN:HB2	2.02	0.40
2:CQ:139:ALA:O	2:CQ:140:LEU:HB2	2.21	0.40
2:CR:215:VAL:HG12	2:CR:216:ALA:N	2.36	0.40
2:CS:160:HIS:ND1	2:CS:160:HIS:N	2.69	0.40
2:CT:149:ALA:O	2:CT:152:TYR:CD2	2.75	0.40
2:CU:15:GLU:CB	2:CU:29:SER:HB2	2.52	0.40
2:CU:160:HIS:ND1	2:CU:160:HIS:N	2.69	0.40
2:CV:28:GLY:O	2:CV:168:ASN:HB2	2.21	0.40
2:CV:64:PHE:CD1	2:CV:64:PHE:N	2.90	0.40
2:CW:87:LYS:HG3	2:CW:142:TRP:CG	2.57	0.40
2:CX:58:LEU:HB3	2:CX:59:SER:H	1.65	0.40
2:CX:69:TRP:CZ3	2:CX:124:LEU:HD21	2.56	0.40
2:CY:208:THR:O	2:CY:209:VAL:CG2	2.69	0.40
2:CZ:160:HIS:ND1	2:CZ:160:HIS:N	2.70	0.40
2:Cb:160:HIS:ND1	2:Cb:160:HIS:N	2.69	0.40
2:Cc:20:GLY:CA	2:Cc:56:PRO:O	2.67	0.40
2:Cc:56:PRO:C	2:Cc:57:THR:O	2.59	0.40
2:Cd:87:LYS:HG3	2:Cd:142:TRP:CG	2.57	0.40
2:Ce:64:PHE:CD1	2:Ce:64:PHE:N	2.90	0.40
2:Cg:149:ALA:O	2:Cg:152:TYR:CD2	2.74	0.40
2:Cg:152:TYR:HB3	2:Cg:197:LEU:CD2	2.51	0.40
2:Ci:15:GLU:CB	2:Ci:29:SER:HB2	2.52	0.40
2:Ci:87:LYS:HG3	2:Ci:142:TRP:CG	2.57	0.40
2:Cj:103:LEU:HD12	2:Cj:223:ASN:HB2	2.02	0.40
2:Ck:15:GLU:CB	2:Ck:29:SER:HB2	2.52	0.40
2:Ck:215:VAL:HG12	2:Ck:216:ALA:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Cl:42:ARG:HA	2:Cl:43:PRO:HD2	1.64	0.40
2:Cl:152:TYR:HB3	2:Cl:197:LEU:CD2	2.51	0.40
2:Cm:15:GLU:CB	2:Cm:29:SER:HB2	2.52	0.40
2:Cq:149:ALA:O	2:Cq:152:TYR:CD2	2.75	0.40
2:Cs:55:GLY:HA2	2:Cs:56:PRO:HD3	1.80	0.40
2:Cs:139:ALA:O	2:Cs:140:LEU:HB2	2.21	0.40
2:Ct:15:GLU:CB	2:Ct:29:SER:HB2	2.52	0.40
2:Cu:15:GLU:CB	2:Cu:29:SER:HB2	2.52	0.40
2:Cv:26:SER:O	2:Cv:27:GLN:C	2.64	0.40
2:Cv:87:LYS:HG3	2:Cv:142:TRP:CG	2.57	0.40
2:Cv:160:HIS:N	2:Cv:160:HIS:ND1	2.70	0.40
2:Cx:160:HIS:ND1	2:Cx:160:HIS:N	2.70	0.40
3:D0:31:VAL:CB	4:F0:34:ILE:O	2.69	0.40
3:D1:84:GLU:CD	3:D1:84:GLU:N	2.79	0.40
3:D2:45:ASP:O	3:D2:49:GLN:HG2	2.22	0.40
3:D2:103:SER:OG	3:D2:213:ASP:OD2	2.39	0.40
3:D2:169:VAL:O	3:D2:169:VAL:CG1	2.69	0.40
3:D4:45:ASP:O	3:D4:49:GLN:HG2	2.22	0.40
3:D4:152:SER:O	3:D4:153:ALA:HB2	2.21	0.40
3:D5:152:SER:O	3:D5:153:ALA:HB2	2.21	0.40
3:D6:54:CYS:SG	3:D6:208:VAL:HG21	2.61	0.40
3:D6:64:VAL:HG13	3:D6:120:PHE:HE1	1.86	0.40
3:D6:75:GLN:NE2	3:D6:184:GLN:OE1	2.49	0.40
3:D6:157:ASN:ND2	3:D6:157:ASN:C	2.80	0.40
3:D8:84:GLU:CD	3:D8:84:GLU:N	2.79	0.40
3:D8:175:THR:OG1	3:D8:178:ASN:CG	2.65	0.40
3:DA:86:HIS:ND1	3:DA:86:HIS:C	2.77	0.40
3:DC:103:SER:OG	3:DC:213:ASP:OD2	2.39	0.40
3:DC:175:THR:OG1	3:DC:178:ASN:CG	2.65	0.40
3:DE:47:ALA:HB2	3:DE:89:TYR:CD2	2.56	0.40
3:DE:152:SER:O	3:DE:153:ALA:HB2	2.21	0.40
3:DH:29:VAL:HG13	3:DI:218:HIS:HE1	1.87	0.40
3:DI:100:TYR:HA	3:DI:215:SER:O	2.21	0.40
3:DI:103:SER:OG	3:DI:213:ASP:OD2	2.39	0.40
3:DJ:119:LYS:HG2	3:DJ:147:ASP:CG	2.45	0.40
3:DJ:169:VAL:O	3:DJ:169:VAL:CG1	2.69	0.40
3:DK:31:VAL:CB	4:FK:34:ILE:O	2.69	0.40
3:DK:75:GLN:NE2	3:DK:184:GLN:OE1	2.49	0.40
3:DK:169:VAL:O	3:DK:169:VAL:CG1	2.69	0.40
3:DL:157:ASN:ND2	3:DL:157:ASN:C	2.80	0.40
3:DN:44:ILE:O	3:DN:45:ASP:C	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DN:47:ALA:HB2	3:DN:89:TYR:CD2	2.56	0.40
3:DN:169:VAL:O	3:DN:169:VAL:CG1	2.69	0.40
3:DO:27:PRO:CB	4:FO:30:TYR:HA	2.51	0.40
3:DO:121:LEU:O	3:DO:186:TYR:N	2.39	0.40
3:DP:45:ASP:O	3:DP:49:GLN:HG2	2.22	0.40
3:DP:157:ASN:ND2	3:DP:157:ASN:C	2.80	0.40
3:DQ:152:SER:O	3:DQ:153:ALA:HB2	2.21	0.40
3:DQ:169:VAL:O	3:DQ:169:VAL:CG1	2.69	0.40
3:DR:44:ILE:O	3:DR:45:ASP:C	2.65	0.40
3:DS:6:VAL:HG12	3:DT:3:ILE:O	2.22	0.40
3:DV:84:GLU:CD	3:DV:84:GLU:N	2.79	0.40
3:DW:23:THR:HA	3:DW:24:PRO:HD3	1.89	0.40
3:DW:64:VAL:HG13	3:DW:120:PHE:HE1	1.86	0.40
3:DX:53:PHE:CD1	3:DX:53:PHE:N	2.88	0.40
3:DX:113:ALA:HB2	3:DX:199:ASN:CG	2.46	0.40
3:DY:45:ASP:O	3:DY:49:GLN:HG2	2.22	0.40
3:DY:152:SER:O	3:DY:153:ALA:HB2	2.21	0.40
3:DZ:115:ALA:CB	3:DZ:194:THR:OG1	2.67	0.40
3:DZ:121:LEU:O	3:DZ:186:TYR:N	2.39	0.40
3:Da:103:SER:OG	3:Da:213:ASP:OD2	2.39	0.40
3:Da:223:PRO:HB2	3:Da:224:ASP:H	1.71	0.40
3:Db:6:VAL:HG12	3:Dc:3:ILE:O	2.22	0.40
3:Dc:138:ALA:O	3:Dc:141:CYS:SG	2.78	0.40
3:Dd:75:GLN:NE2	3:Dd:184:GLN:OE1	2.49	0.40
3:Df:18:VAL:O	3:Df:20:ASP:N	2.55	0.40
3:Dh:18:VAL:O	3:Dh:20:ASP:N	2.55	0.40
3:Dh:169:VAL:O	3:Dh:169:VAL:CG1	2.69	0.40
3:Di:175:THR:OG1	3:Di:178:ASN:CG	2.65	0.40
3:Dj:18:VAL:O	3:Dj:20:ASP:N	2.55	0.40
3:Dj:64:VAL:HG13	3:Dj:120:PHE:HE1	1.86	0.40
3:Dj:175:THR:OG1	3:Dj:178:ASN:CG	2.65	0.40
3:Dk:138:ALA:O	3:Dk:141:CYS:SG	2.78	0.40
3:Dl:64:VAL:HG13	3:Dl:120:PHE:HE1	1.86	0.40
3:Dn:103:SER:OG	3:Dn:213:ASP:OD2	2.39	0.40
3:Dn:175:THR:OG1	3:Dn:178:ASN:CG	2.65	0.40
3:Do:100:TYR:HA	3:Do:215:SER:O	2.21	0.40
3:Dq:31:VAL:CB	4:Fq:34:ILE:O	2.69	0.40
3:Dq:168:ALA:C	3:Dq:170:TYR:H	2.29	0.40
3:Dq:169:VAL:O	3:Dq:169:VAL:CG1	2.70	0.40
3:Dr:6:VAL:HG12	3:Ds:3:ILE:O	2.22	0.40
3:Dr:152:SER:O	3:Dr:153:ALA:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ds:18:VAL:O	3:Ds:20:ASP:N	2.55	0.40
3:EA:100:TYR:HA	3:EA:215:SER:O	2.21	0.40
3:EB:6:VAL:HG12	3:EC:3:ILE:O	2.22	0.40
3:EB:84:GLU:CD	3:EB:84:GLU:N	2.79	0.40
3:EB:115:ALA:CB	3:EB:194:THR:OG1	2.67	0.40
3:EC:100:TYR:CD1	3:EC:100:TYR:C	2.99	0.40
3:ED:27:PRO:CB	4:Fw:30:TYR:HA	2.50	0.40
4:FF:31:GLN:HA	4:FF:31:GLN:HE21	1.85	0.40
4:FW:31:GLN:HA	4:FW:31:GLN:HE21	1.85	0.40
4:Fc:31:GLN:HB3	4:Fc:32:ASN:H	1.72	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	A1	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	A2	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	A3	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	A4	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	A5	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	A6	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	A7	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	A8	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	A9	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AA	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AB	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AC	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AD	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AE	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AF	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AG	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AH	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	AI	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	AJ	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AK	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	AL	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AM	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	AN	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AO	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AP	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AQ	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AR	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AS	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	AT	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AU	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AV	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AW	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AX	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AY	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	AZ	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	Aa	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	Ab	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	Ac	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	Ad	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	Ae	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	Af	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	Ag	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Ah	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	Ai	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	Aj	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	Ak	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	Al	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	Am	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	An	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	Ao	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	BA	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	BB	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	BC	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	BD	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	BE	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	2
1	BF	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	BG	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	BH	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
1	BI	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	2
2	C0	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	C1	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	C2	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	C3	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	C4	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	C5	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	C6	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	C7	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	C8	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	C9	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CA	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CB	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CC	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CD	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	CE	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CF	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CG	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CH	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CI	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CJ	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CK	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CL	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CM	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CN	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CO	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CP	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CQ	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CR	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CS	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CT	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CU	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CV	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CW	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CX	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CY	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	CZ	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Ca	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cb	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cc	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cd	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Ce	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cf	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cg	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Ch	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Ci	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	Cj	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Ck	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cl	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cm	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cn	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Co	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cp	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cq	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cr	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cs	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Ct	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cu	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cv	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cw	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
2	Cx	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	5
3	D0	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	D1	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	D2	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	D3	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	D4	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	D5	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	D6	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	D7	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	D8	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	D9	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DA	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DB	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DC	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DD	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DE	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DF	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	DG	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DH	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DI	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DJ	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DK	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DL	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DM	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DN	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DO	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DP	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DQ	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DR	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DS	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DT	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DU	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DV	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DW	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DX	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	DY	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	DZ	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	Da	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	Db	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	Dc	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	Dd	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	De	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	Df	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	Dg	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	Dh	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	Di	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	Dj	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	Dk	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	Dl	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	Dm	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	Dn	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	Do	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	Dp	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	Dq	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	Dr	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	Ds	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	EA	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	EB	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	EC	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
3	ED	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	0	6
3	EE	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	0	6
4	F0	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	F1	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	F2	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	F3	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	F4	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	F5	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	F6	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	F7	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	F8	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	F9	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FA	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FB	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FC	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FD	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FE	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FF	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FG	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FH	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	FI	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FJ	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FK	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FL	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FM	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FN	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FO	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FP	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FQ	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FR	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FS	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FT	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FU	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FV	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FW	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FX	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FY	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	FZ	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fa	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fb	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fc	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fd	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fe	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Ff	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fg	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fh	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fi	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fj	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fk	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fl	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fm	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	Fn	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fo	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fp	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fq	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fr	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fs	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Ft	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fu	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fv	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fw	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
4	Fx	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	2
All	All	38520/46920 (82%)	24801 (64%)	8679 (22%)	5040 (13%)	0	4

All (5040) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A0	10	PRO
1	A0	18	ALA
1	A0	22	VAL
1	A0	26	VAL
1	A0	63	THR
1	A0	67	ALA
1	A0	127	SER
1	A0	135	VAL
1	A0	162	SER
1	A0	179	LYS
1	A0	182	ALA
1	A0	226	PRO
1	A0	243	ILE
1	A1	10	PRO
1	A1	18	ALA
1	A1	22	VAL
1	A1	26	VAL
1	A1	63	THR
1	A1	67	ALA
1	A1	127	SER
1	A1	135	VAL
1	A1	162	SER

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Mol	Chain	Res	Type
1	A1	179	LYS
1	A1	182	ALA
1	A1	226	PRO
1	A1	243	ILE
1	A2	10	PRO
1	A2	18	ALA
1	A2	22	VAL
1	A2	26	VAL
1	A2	63	THR
1	A2	67	ALA
1	A2	127	SER
1	A2	135	VAL
1	A2	162	SER
1	A2	179	LYS
1	A2	182	ALA
1	A2	226	PRO
1	A2	243	ILE
1	A3	10	PRO
1	A3	18	ALA
1	A3	22	VAL
1	A3	26	VAL
1	A3	63	THR
1	A3	67	ALA
1	A3	127	SER
1	A3	135	VAL
1	A3	162	SER
1	A3	179	LYS
1	A3	182	ALA
1	A3	226	PRO
1	A3	243	ILE
1	A4	10	PRO
1	A4	18	ALA
1	A4	22	VAL
1	A4	26	VAL
1	A4	63	THR
1	A4	67	ALA
1	A4	127	SER
1	A4	135	VAL
1	A4	162	SER
1	A4	179	LYS
1	A4	182	ALA
1	A4	226	PRO

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Mol	Chain	Res	Type
1	A4	243	ILE
1	A5	10	PRO
1	A5	18	ALA
1	A5	22	VAL
1	A5	26	VAL
1	A5	63	THR
1	A5	67	ALA
1	A5	127	SER
1	A5	135	VAL
1	A5	162	SER
1	A5	179	LYS
1	A5	182	ALA
1	A5	226	PRO
1	A5	243	ILE
1	A6	10	PRO
1	A6	18	ALA
1	A6	22	VAL
1	A6	26	VAL
1	A6	63	THR
1	A6	67	ALA
1	A6	127	SER
1	A6	135	VAL
1	A6	162	SER
1	A6	179	LYS
1	A6	182	ALA
1	A6	226	PRO
1	A6	243	ILE
1	A7	10	PRO
1	A7	18	ALA
1	A7	22	VAL
1	A7	26	VAL
1	A7	63	THR
1	A7	67	ALA
1	A7	127	SER
1	A7	135	VAL
1	A7	162	SER
1	A7	179	LYS
1	A7	182	ALA
1	A7	226	PRO
1	A7	243	ILE
1	A8	10	PRO
1	A8	18	ALA

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Mol	Chain	Res	Type
1	A8	22	VAL
1	A8	26	VAL
1	A8	63	THR
1	A8	67	ALA
1	A8	127	SER
1	A8	135	VAL
1	A8	162	SER
1	A8	179	LYS
1	A8	182	ALA
1	A8	226	PRO
1	A8	243	ILE
1	A9	10	PRO
1	A9	18	ALA
1	A9	22	VAL
1	A9	26	VAL
1	A9	63	THR
1	A9	67	ALA
1	A9	127	SER
1	A9	135	VAL
1	A9	162	SER
1	A9	179	LYS
1	A9	182	ALA
1	A9	226	PRO
1	A9	243	ILE
1	AA	10	PRO
1	AA	18	ALA
1	AA	22	VAL
1	AA	26	VAL
1	AA	63	THR
1	AA	67	ALA
1	AA	127	SER
1	AA	135	VAL
1	AA	162	SER
1	AA	179	LYS
1	AA	182	ALA
1	AA	226	PRO
1	AA	243	ILE
1	AB	10	PRO
1	AB	18	ALA
1	AB	22	VAL
1	AB	26	VAL
1	AB	63	THR

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Mol	Chain	Res	Type
1	AB	67	ALA
1	AB	127	SER
1	AB	135	VAL
1	AB	162	SER
1	AB	179	LYS
1	AB	182	ALA
1	AB	226	PRO
1	AB	243	ILE
1	AC	10	PRO
1	AC	18	ALA
1	AC	22	VAL
1	AC	26	VAL
1	AC	63	THR
1	AC	67	ALA
1	AC	127	SER
1	AC	135	VAL
1	AC	162	SER
1	AC	179	LYS
1	AC	182	ALA
1	AC	226	PRO
1	AC	243	ILE
1	AD	10	PRO
1	AD	18	ALA
1	AD	22	VAL
1	AD	26	VAL
1	AD	63	THR
1	AD	67	ALA
1	AD	127	SER
1	AD	135	VAL
1	AD	162	SER
1	AD	179	LYS
1	AD	182	ALA
1	AD	226	PRO
1	AD	243	ILE
1	AE	10	PRO
1	AE	18	ALA
1	AE	22	VAL
1	AE	26	VAL
1	AE	63	THR
1	AE	67	ALA
1	AE	127	SER
1	AE	135	VAL

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Mol	Chain	Res	Type
1	AE	162	SER
1	AE	179	LYS
1	AE	182	ALA
1	AE	226	PRO
1	AE	243	ILE
1	AF	10	PRO
1	AF	18	ALA
1	AF	22	VAL
1	AF	26	VAL
1	AF	63	THR
1	AF	67	ALA
1	AF	127	SER
1	AF	135	VAL
1	AF	162	SER
1	AF	179	LYS
1	AF	182	ALA
1	AF	226	PRO
1	AF	243	ILE
1	AG	10	PRO
1	AG	18	ALA
1	AG	22	VAL
1	AG	26	VAL
1	AG	63	THR
1	AG	67	ALA
1	AG	127	SER
1	AG	135	VAL
1	AG	162	SER
1	AG	179	LYS
1	AG	182	ALA
1	AG	226	PRO
1	AG	243	ILE
1	AH	10	PRO
1	AH	18	ALA
1	AH	22	VAL
1	AH	26	VAL
1	AH	63	THR
1	AH	67	ALA
1	AH	127	SER
1	AH	135	VAL
1	AH	162	SER
1	AH	179	LYS
1	AH	182	ALA

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Mol	Chain	Res	Type
1	AH	226	PRO
1	AH	243	ILE
1	AI	10	PRO
1	AI	18	ALA
1	AI	22	VAL
1	AI	26	VAL
1	AI	63	THR
1	AI	67	ALA
1	AI	127	SER
1	AI	135	VAL
1	AI	162	SER
1	AI	179	LYS
1	AI	182	ALA
1	AI	226	PRO
1	AI	243	ILE
1	AJ	10	PRO
1	AJ	18	ALA
1	AJ	22	VAL
1	AJ	26	VAL
1	AJ	63	THR
1	AJ	67	ALA
1	AJ	127	SER
1	AJ	135	VAL
1	AJ	162	SER
1	AJ	179	LYS
1	AJ	182	ALA
1	AJ	226	PRO
1	AJ	243	ILE
1	AK	10	PRO
1	AK	18	ALA
1	AK	22	VAL
1	AK	26	VAL
1	AK	63	THR
1	AK	67	ALA
1	AK	127	SER
1	AK	135	VAL
1	AK	162	SER
1	AK	179	LYS
1	AK	182	ALA
1	AK	226	PRO
1	AK	243	ILE
1	AL	10	PRO

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Mol	Chain	Res	Type
1	AL	18	ALA
1	AL	22	VAL
1	AL	26	VAL
1	AL	63	THR
1	AL	67	ALA
1	AL	127	SER
1	AL	135	VAL
1	AL	162	SER
1	AL	179	LYS
1	AL	182	ALA
1	AL	226	PRO
1	AL	243	ILE
1	AM	10	PRO
1	AM	18	ALA
1	AM	22	VAL
1	AM	26	VAL
1	AM	63	THR
1	AM	67	ALA
1	AM	127	SER
1	AM	135	VAL
1	AM	162	SER
1	AM	179	LYS
1	AM	182	ALA
1	AM	226	PRO
1	AM	243	ILE
1	AN	10	PRO
1	AN	18	ALA
1	AN	22	VAL
1	AN	26	VAL
1	AN	63	THR
1	AN	67	ALA
1	AN	127	SER
1	AN	135	VAL
1	AN	162	SER
1	AN	179	LYS
1	AN	182	ALA
1	AN	226	PRO
1	AN	243	ILE
1	AO	10	PRO
1	AO	18	ALA
1	AO	22	VAL
1	AO	26	VAL

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Mol	Chain	Res	Type
1	AO	63	THR
1	AO	67	ALA
1	AO	127	SER
1	AO	135	VAL
1	AO	162	SER
1	AO	179	LYS
1	AO	182	ALA
1	AO	226	PRO
1	AO	243	ILE
1	AP	10	PRO
1	AP	18	ALA
1	AP	22	VAL
1	AP	26	VAL
1	AP	63	THR
1	AP	67	ALA
1	AP	127	SER
1	AP	135	VAL
1	AP	162	SER
1	AP	179	LYS
1	AP	182	ALA
1	AP	226	PRO
1	AP	243	ILE
1	AQ	10	PRO
1	AQ	18	ALA
1	AQ	22	VAL
1	AQ	26	VAL
1	AQ	63	THR
1	AQ	67	ALA
1	AQ	127	SER
1	AQ	135	VAL
1	AQ	162	SER
1	AQ	179	LYS
1	AQ	182	ALA
1	AQ	226	PRO
1	AQ	243	ILE
1	AR	10	PRO
1	AR	18	ALA
1	AR	22	VAL
1	AR	26	VAL
1	AR	63	THR
1	AR	67	ALA
1	AR	127	SER

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Mol	Chain	Res	Type
1	AR	135	VAL
1	AR	162	SER
1	AR	179	LYS
1	AR	182	ALA
1	AR	226	PRO
1	AR	243	ILE
1	AS	10	PRO
1	AS	18	ALA
1	AS	22	VAL
1	AS	26	VAL
1	AS	63	THR
1	AS	67	ALA
1	AS	127	SER
1	AS	135	VAL
1	AS	162	SER
1	AS	179	LYS
1	AS	182	ALA
1	AS	226	PRO
1	AS	243	ILE
1	AT	10	PRO
1	AT	18	ALA
1	AT	22	VAL
1	AT	26	VAL
1	AT	63	THR
1	AT	67	ALA
1	AT	127	SER
1	AT	135	VAL
1	AT	162	SER
1	AT	179	LYS
1	AT	182	ALA
1	AT	226	PRO
1	AT	243	ILE
1	AU	10	PRO
1	AU	18	ALA
1	AU	22	VAL
1	AU	26	VAL
1	AU	63	THR
1	AU	67	ALA
1	AU	127	SER
1	AU	135	VAL
1	AU	162	SER
1	AU	179	LYS

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Mol	Chain	Res	Type
1	AU	182	ALA
1	AU	226	PRO
1	AU	243	ILE
1	AV	10	PRO
1	AV	18	ALA
1	AV	22	VAL
1	AV	26	VAL
1	AV	63	THR
1	AV	67	ALA
1	AV	127	SER
1	AV	135	VAL
1	AV	162	SER
1	AV	179	LYS
1	AV	182	ALA
1	AV	226	PRO
1	AV	243	ILE
1	AW	10	PRO
1	AW	18	ALA
1	AW	22	VAL
1	AW	26	VAL
1	AW	63	THR
1	AW	67	ALA
1	AW	127	SER
1	AW	135	VAL
1	AW	162	SER
1	AW	179	LYS
1	AW	182	ALA
1	AW	226	PRO
1	AW	243	ILE
1	AX	10	PRO
1	AX	18	ALA
1	AX	22	VAL
1	AX	26	VAL
1	AX	63	THR
1	AX	67	ALA
1	AX	127	SER
1	AX	135	VAL
1	AX	162	SER
1	AX	179	LYS
1	AX	182	ALA
1	AX	226	PRO
1	AX	243	ILE

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Mol	Chain	Res	Type
1	AY	10	PRO
1	AY	18	ALA
1	AY	22	VAL
1	AY	26	VAL
1	AY	63	THR
1	AY	67	ALA
1	AY	127	SER
1	AY	135	VAL
1	AY	162	SER
1	AY	179	LYS
1	AY	182	ALA
1	AY	226	PRO
1	AY	243	ILE
1	AZ	10	PRO
1	AZ	18	ALA
1	AZ	22	VAL
1	AZ	26	VAL
1	AZ	63	THR
1	AZ	67	ALA
1	AZ	127	SER
1	AZ	135	VAL
1	AZ	162	SER
1	AZ	179	LYS
1	AZ	182	ALA
1	AZ	226	PRO
1	AZ	243	ILE
1	Aa	10	PRO
1	Aa	18	ALA
1	Aa	22	VAL
1	Aa	26	VAL
1	Aa	63	THR
1	Aa	67	ALA
1	Aa	127	SER
1	Aa	135	VAL
1	Aa	162	SER
1	Aa	179	LYS
1	Aa	182	ALA
1	Aa	226	PRO
1	Aa	243	ILE
1	Ab	10	PRO
1	Ab	18	ALA
1	Ab	22	VAL

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Mol	Chain	Res	Type
1	Ab	26	VAL
1	Ab	63	THR
1	Ab	67	ALA
1	Ab	127	SER
1	Ab	135	VAL
1	Ab	162	SER
1	Ab	179	LYS
1	Ab	182	ALA
1	Ab	226	PRO
1	Ab	243	ILE
1	Ac	10	PRO
1	Ac	18	ALA
1	Ac	22	VAL
1	Ac	26	VAL
1	Ac	63	THR
1	Ac	67	ALA
1	Ac	127	SER
1	Ac	135	VAL
1	Ac	162	SER
1	Ac	179	LYS
1	Ac	182	ALA
1	Ac	226	PRO
1	Ac	243	ILE
1	Ad	10	PRO
1	Ad	18	ALA
1	Ad	22	VAL
1	Ad	26	VAL
1	Ad	63	THR
1	Ad	67	ALA
1	Ad	127	SER
1	Ad	135	VAL
1	Ad	162	SER
1	Ad	179	LYS
1	Ad	182	ALA
1	Ad	226	PRO
1	Ad	243	ILE
1	Ae	10	PRO
1	Ae	18	ALA
1	Ae	22	VAL
1	Ae	26	VAL
1	Ae	63	THR
1	Ae	67	ALA

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Mol	Chain	Res	Type
1	Ae	127	SER
1	Ae	135	VAL
1	Ae	162	SER
1	Ae	179	LYS
1	Ae	182	ALA
1	Ae	226	PRO
1	Ae	243	ILE
1	Af	10	PRO
1	Af	18	ALA
1	Af	22	VAL
1	Af	26	VAL
1	Af	63	THR
1	Af	67	ALA
1	Af	127	SER
1	Af	135	VAL
1	Af	162	SER
1	Af	179	LYS
1	Af	182	ALA
1	Af	226	PRO
1	Af	243	ILE
1	Ag	10	PRO
1	Ag	18	ALA
1	Ag	22	VAL
1	Ag	26	VAL
1	Ag	63	THR
1	Ag	67	ALA
1	Ag	127	SER
1	Ag	135	VAL
1	Ag	162	SER
1	Ag	179	LYS
1	Ag	182	ALA
1	Ag	226	PRO
1	Ag	243	ILE
1	Ah	10	PRO
1	Ah	18	ALA
1	Ah	22	VAL
1	Ah	26	VAL
1	Ah	63	THR
1	Ah	67	ALA
1	Ah	127	SER
1	Ah	135	VAL
1	Ah	162	SER

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Mol	Chain	Res	Type
1	Ah	179	LYS
1	Ah	182	ALA
1	Ah	226	PRO
1	Ah	243	ILE
1	Ai	10	PRO
1	Ai	18	ALA
1	Ai	22	VAL
1	Ai	26	VAL
1	Ai	63	THR
1	Ai	67	ALA
1	Ai	127	SER
1	Ai	135	VAL
1	Ai	162	SER
1	Ai	179	LYS
1	Ai	182	ALA
1	Ai	226	PRO
1	Ai	243	ILE
1	Aj	10	PRO
1	Aj	18	ALA
1	Aj	22	VAL
1	Aj	26	VAL
1	Aj	63	THR
1	Aj	67	ALA
1	Aj	127	SER
1	Aj	135	VAL
1	Aj	162	SER
1	Aj	179	LYS
1	Aj	182	ALA
1	Aj	226	PRO
1	Aj	243	ILE
1	Ak	10	PRO
1	Ak	18	ALA
1	Ak	22	VAL
1	Ak	26	VAL
1	Ak	63	THR
1	Ak	67	ALA
1	Ak	127	SER
1	Ak	135	VAL
1	Ak	162	SER
1	Ak	179	LYS
1	Ak	182	ALA
1	Ak	226	PRO

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Mol	Chain	Res	Type
1	Ak	243	ILE
1	Al	10	PRO
1	Al	18	ALA
1	Al	22	VAL
1	Al	26	VAL
1	Al	63	THR
1	Al	67	ALA
1	Al	127	SER
1	Al	135	VAL
1	Al	162	SER
1	Al	179	LYS
1	Al	182	ALA
1	Al	226	PRO
1	Al	243	ILE
1	Am	10	PRO
1	Am	18	ALA
1	Am	22	VAL
1	Am	26	VAL
1	Am	63	THR
1	Am	67	ALA
1	Am	127	SER
1	Am	135	VAL
1	Am	162	SER
1	Am	179	LYS
1	Am	182	ALA
1	Am	226	PRO
1	Am	243	ILE
1	An	10	PRO
1	An	18	ALA
1	An	22	VAL
1	An	26	VAL
1	An	63	THR
1	An	67	ALA
1	An	127	SER
1	An	135	VAL
1	An	162	SER
1	An	179	LYS
1	An	182	ALA
1	An	226	PRO
1	An	243	ILE
1	Ao	10	PRO
1	Ao	18	ALA

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Mol	Chain	Res	Type
1	Ao	22	VAL
1	Ao	26	VAL
1	Ao	63	THR
1	Ao	67	ALA
1	Ao	127	SER
1	Ao	135	VAL
1	Ao	162	SER
1	Ao	179	LYS
1	Ao	182	ALA
1	Ao	226	PRO
1	Ao	243	ILE
1	BA	10	PRO
1	BA	18	ALA
1	BA	22	VAL
1	BA	26	VAL
1	BA	63	THR
1	BA	67	ALA
1	BA	127	SER
1	BA	135	VAL
1	BA	162	SER
1	BA	179	LYS
1	BA	182	ALA
1	BA	226	PRO
1	BA	243	ILE
1	BB	10	PRO
1	BB	18	ALA
1	BB	22	VAL
1	BB	26	VAL
1	BB	63	THR
1	BB	67	ALA
1	BB	127	SER
1	BB	135	VAL
1	BB	162	SER
1	BB	179	LYS
1	BB	182	ALA
1	BB	226	PRO
1	BB	243	ILE
1	BC	10	PRO
1	BC	18	ALA
1	BC	22	VAL
1	BC	26	VAL
1	BC	63	THR

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Mol	Chain	Res	Type
1	BC	67	ALA
1	BC	127	SER
1	BC	135	VAL
1	BC	162	SER
1	BC	179	LYS
1	BC	182	ALA
1	BC	226	PRO
1	BC	243	ILE
1	BD	10	PRO
1	BD	18	ALA
1	BD	22	VAL
1	BD	26	VAL
1	BD	63	THR
1	BD	67	ALA
1	BD	127	SER
1	BD	135	VAL
1	BD	162	SER
1	BD	179	LYS
1	BD	182	ALA
1	BD	226	PRO
1	BD	243	ILE
1	BE	10	PRO
1	BE	18	ALA
1	BE	22	VAL
1	BE	26	VAL
1	BE	63	THR
1	BE	67	ALA
1	BE	127	SER
1	BE	135	VAL
1	BE	162	SER
1	BE	179	LYS
1	BE	182	ALA
1	BE	226	PRO
1	BE	243	ILE
1	BF	10	PRO
1	BF	18	ALA
1	BF	22	VAL
1	BF	26	VAL
1	BF	63	THR
1	BF	67	ALA
1	BF	127	SER
1	BF	135	VAL

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Mol	Chain	Res	Type
1	BF	162	SER
1	BF	179	LYS
1	BF	182	ALA
1	BF	226	PRO
1	BF	243	ILE
1	BG	10	PRO
1	BG	18	ALA
1	BG	22	VAL
1	BG	26	VAL
1	BG	63	THR
1	BG	67	ALA
1	BG	127	SER
1	BG	135	VAL
1	BG	162	SER
1	BG	179	LYS
1	BG	182	ALA
1	BG	226	PRO
1	BG	243	ILE
1	BH	10	PRO
1	BH	18	ALA
1	BH	22	VAL
1	BH	26	VAL
1	BH	63	THR
1	BH	67	ALA
1	BH	127	SER
1	BH	135	VAL
1	BH	162	SER
1	BH	179	LYS
1	BH	182	ALA
1	BH	226	PRO
1	BH	243	ILE
1	BI	10	PRO
1	BI	18	ALA
1	BI	22	VAL
1	BI	26	VAL
1	BI	63	THR
1	BI	67	ALA
1	BI	127	SER
1	BI	135	VAL
1	BI	162	SER
1	BI	179	LYS
1	BI	182	ALA

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Mol	Chain	Res	Type
1	BI	226	PRO
1	BI	243	ILE
2	C0	27	GLN
2	C0	136	HIS
2	C0	208	THR
2	C0	209	VAL
2	C0	224	GLY
2	C1	27	GLN
2	C1	136	HIS
2	C1	208	THR
2	C1	209	VAL
2	C1	224	GLY
2	C2	27	GLN
2	C2	136	HIS
2	C2	208	THR
2	C2	209	VAL
2	C2	224	GLY
2	C3	27	GLN
2	C3	136	HIS
2	C3	208	THR
2	C3	209	VAL
2	C3	224	GLY
2	C4	27	GLN
2	C4	136	HIS
2	C4	208	THR
2	C4	209	VAL
2	C4	224	GLY
2	C5	27	GLN
2	C5	136	HIS
2	C5	208	THR
2	C5	209	VAL
2	C5	224	GLY
2	C6	27	GLN
2	C6	136	HIS
2	C6	208	THR
2	C6	209	VAL
2	C6	224	GLY
2	C7	27	GLN
2	C7	136	HIS
2	C7	208	THR
2	C7	209	VAL
2	C7	224	GLY

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Mol	Chain	Res	Type
2	C8	27	GLN
2	C8	136	HIS
2	C8	208	THR
2	C8	209	VAL
2	C8	224	GLY
2	C9	27	GLN
2	C9	136	HIS
2	C9	208	THR
2	C9	209	VAL
2	C9	224	GLY
2	CA	27	GLN
2	CA	136	HIS
2	CA	208	THR
2	CA	209	VAL
2	CA	224	GLY
2	CB	27	GLN
2	CB	136	HIS
2	CB	208	THR
2	CB	209	VAL
2	CB	224	GLY
2	CC	27	GLN
2	CC	136	HIS
2	CC	208	THR
2	CC	209	VAL
2	CC	224	GLY
2	CD	27	GLN
2	CD	136	HIS
2	CD	208	THR
2	CD	209	VAL
2	CD	224	GLY
2	CE	27	GLN
2	CE	136	HIS
2	CE	208	THR
2	CE	209	VAL
2	CE	224	GLY
2	CF	27	GLN
2	CF	136	HIS
2	CF	208	THR
2	CF	209	VAL
2	CF	224	GLY
2	CG	27	GLN
2	CG	136	HIS

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Mol	Chain	Res	Type
2	CG	208	THR
2	CG	209	VAL
2	CG	224	GLY
2	CH	27	GLN
2	CH	136	HIS
2	CH	208	THR
2	CH	209	VAL
2	CH	224	GLY
2	CI	27	GLN
2	CI	136	HIS
2	CI	208	THR
2	CI	209	VAL
2	CI	224	GLY
2	CJ	27	GLN
2	CJ	136	HIS
2	CJ	208	THR
2	CJ	209	VAL
2	CJ	224	GLY
2	CK	27	GLN
2	CK	136	HIS
2	CK	208	THR
2	CK	209	VAL
2	CK	224	GLY
2	CL	27	GLN
2	CL	136	HIS
2	CL	208	THR
2	CL	209	VAL
2	CL	224	GLY
2	CM	27	GLN
2	CM	136	HIS
2	CM	208	THR
2	CM	209	VAL
2	CM	224	GLY
2	CN	27	GLN
2	CN	136	HIS
2	CN	208	THR
2	CN	209	VAL
2	CN	224	GLY
2	CO	27	GLN
2	CO	136	HIS
2	CO	208	THR
2	CO	209	VAL

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Mol	Chain	Res	Type
2	CO	224	GLY
2	CP	27	GLN
2	CP	136	HIS
2	CP	208	THR
2	CP	209	VAL
2	CP	224	GLY
2	CQ	27	GLN
2	CQ	136	HIS
2	CQ	208	THR
2	CQ	209	VAL
2	CQ	224	GLY
2	CR	27	GLN
2	CR	136	HIS
2	CR	208	THR
2	CR	209	VAL
2	CR	224	GLY
2	CS	27	GLN
2	CS	136	HIS
2	CS	208	THR
2	CS	209	VAL
2	CS	224	GLY
2	CT	27	GLN
2	CT	136	HIS
2	CT	208	THR
2	CT	209	VAL
2	CT	224	GLY
2	CU	27	GLN
2	CU	136	HIS
2	CU	208	THR
2	CU	209	VAL
2	CU	224	GLY
2	CV	27	GLN
2	CV	136	HIS
2	CV	208	THR
2	CV	209	VAL
2	CV	224	GLY
2	CW	27	GLN
2	CW	136	HIS
2	CW	208	THR
2	CW	209	VAL
2	CW	224	GLY
2	CX	27	GLN

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Mol	Chain	Res	Type
2	CX	136	HIS
2	CX	208	THR
2	CX	209	VAL
2	CX	224	GLY
2	CY	27	GLN
2	CY	136	HIS
2	CY	208	THR
2	CY	209	VAL
2	CY	224	GLY
2	CZ	27	GLN
2	CZ	136	HIS
2	CZ	208	THR
2	CZ	209	VAL
2	CZ	224	GLY
2	Ca	27	GLN
2	Ca	136	HIS
2	Ca	208	THR
2	Ca	209	VAL
2	Ca	224	GLY
2	Cb	27	GLN
2	Cb	136	HIS
2	Cb	208	THR
2	Cb	209	VAL
2	Cb	224	GLY
2	Cc	27	GLN
2	Cc	136	HIS
2	Cc	208	THR
2	Cc	209	VAL
2	Cc	224	GLY
2	Cd	27	GLN
2	Cd	136	HIS
2	Cd	208	THR
2	Cd	209	VAL
2	Cd	224	GLY
2	Ce	27	GLN
2	Ce	136	HIS
2	Ce	208	THR
2	Ce	209	VAL
2	Ce	224	GLY
2	Cf	27	GLN
2	Cf	136	HIS
2	Cf	208	THR

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Mol	Chain	Res	Type
2	Cf	209	VAL
2	Cf	224	GLY
2	Cg	27	GLN
2	Cg	136	HIS
2	Cg	208	THR
2	Cg	209	VAL
2	Cg	224	GLY
2	Ch	27	GLN
2	Ch	136	HIS
2	Ch	208	THR
2	Ch	209	VAL
2	Ch	224	GLY
2	Ci	27	GLN
2	Ci	136	HIS
2	Ci	208	THR
2	Ci	209	VAL
2	Ci	224	GLY
2	Cj	27	GLN
2	Cj	136	HIS
2	Cj	208	THR
2	Cj	209	VAL
2	Cj	224	GLY
2	Ck	27	GLN
2	Ck	136	HIS
2	Ck	208	THR
2	Ck	209	VAL
2	Ck	224	GLY
2	Cl	27	GLN
2	Cl	136	HIS
2	Cl	208	THR
2	Cl	209	VAL
2	Cl	224	GLY
2	Cm	27	GLN
2	Cm	136	HIS
2	Cm	208	THR
2	Cm	209	VAL
2	Cm	224	GLY
2	Cn	27	GLN
2	Cn	136	HIS
2	Cn	208	THR
2	Cn	209	VAL
2	Cn	224	GLY

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Mol	Chain	Res	Type
2	Co	27	GLN
2	Co	136	HIS
2	Co	208	THR
2	Co	209	VAL
2	Co	224	GLY
2	Cp	27	GLN
2	Cp	136	HIS
2	Cp	208	THR
2	Cp	209	VAL
2	Cp	224	GLY
2	Cq	27	GLN
2	Cq	136	HIS
2	Cq	208	THR
2	Cq	209	VAL
2	Cq	224	GLY
2	Cr	27	GLN
2	Cr	136	HIS
2	Cr	208	THR
2	Cr	209	VAL
2	Cr	224	GLY
2	Cs	27	GLN
2	Cs	136	HIS
2	Cs	208	THR
2	Cs	209	VAL
2	Cs	224	GLY
2	Ct	27	GLN
2	Ct	136	HIS
2	Ct	208	THR
2	Ct	209	VAL
2	Ct	224	GLY
2	Cu	27	GLN
2	Cu	136	HIS
2	Cu	208	THR
2	Cu	209	VAL
2	Cu	224	GLY
2	Cv	27	GLN
2	Cv	136	HIS
2	Cv	208	THR
2	Cv	209	VAL
2	Cv	224	GLY
2	Cw	27	GLN
2	Cw	136	HIS

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Mol	Chain	Res	Type
2	Cw	208	THR
2	Cw	209	VAL
2	Cw	224	GLY
2	Cx	27	GLN
2	Cx	136	HIS
2	Cx	208	THR
2	Cx	209	VAL
2	Cx	224	GLY
3	D0	20	ASP
3	D0	21	ASN
3	D0	27	PRO
3	D0	78	VAL
3	D0	80	LEU
3	D0	120	PHE
3	D0	153	ALA
3	D0	191	LEU
3	D1	20	ASP
3	D1	21	ASN
3	D1	27	PRO
3	D1	78	VAL
3	D1	80	LEU
3	D1	120	PHE
3	D1	153	ALA
3	D1	191	LEU
3	D2	20	ASP
3	D2	21	ASN
3	D2	27	PRO
3	D2	78	VAL
3	D2	80	LEU
3	D2	120	PHE
3	D2	153	ALA
3	D2	191	LEU
3	D3	20	ASP
3	D3	21	ASN
3	D3	27	PRO
3	D3	78	VAL
3	D3	80	LEU
3	D3	120	PHE
3	D3	153	ALA
3	D3	191	LEU
3	D4	20	ASP
3	D4	21	ASN

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Mol	Chain	Res	Type
3	D4	27	PRO
3	D4	78	VAL
3	D4	80	LEU
3	D4	120	PHE
3	D4	153	ALA
3	D4	191	LEU
3	D5	20	ASP
3	D5	21	ASN
3	D5	27	PRO
3	D5	78	VAL
3	D5	80	LEU
3	D5	120	PHE
3	D5	153	ALA
3	D5	191	LEU
3	D6	20	ASP
3	D6	21	ASN
3	D6	27	PRO
3	D6	78	VAL
3	D6	80	LEU
3	D6	120	PHE
3	D6	153	ALA
3	D6	191	LEU
3	D7	20	ASP
3	D7	21	ASN
3	D7	27	PRO
3	D7	78	VAL
3	D7	80	LEU
3	D7	120	PHE
3	D7	153	ALA
3	D7	191	LEU
3	D8	20	ASP
3	D8	21	ASN
3	D8	27	PRO
3	D8	78	VAL
3	D8	80	LEU
3	D8	120	PHE
3	D8	153	ALA
3	D8	191	LEU
3	D9	20	ASP
3	D9	21	ASN
3	D9	27	PRO
3	D9	78	VAL

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Mol	Chain	Res	Type
3	D9	80	LEU
3	D9	120	PHE
3	D9	153	ALA
3	D9	191	LEU
3	DA	20	ASP
3	DA	21	ASN
3	DA	27	PRO
3	DA	78	VAL
3	DA	80	LEU
3	DA	120	PHE
3	DA	153	ALA
3	DA	191	LEU
3	DB	20	ASP
3	DB	21	ASN
3	DB	27	PRO
3	DB	78	VAL
3	DB	80	LEU
3	DB	120	PHE
3	DB	153	ALA
3	DB	191	LEU
3	DC	20	ASP
3	DC	21	ASN
3	DC	27	PRO
3	DC	78	VAL
3	DC	80	LEU
3	DC	120	PHE
3	DC	153	ALA
3	DC	191	LEU
3	DD	20	ASP
3	DD	21	ASN
3	DD	27	PRO
3	DD	78	VAL
3	DD	80	LEU
3	DD	120	PHE
3	DD	153	ALA
3	DD	191	LEU
3	DE	20	ASP
3	DE	21	ASN
3	DE	27	PRO
3	DE	78	VAL
3	DE	80	LEU
3	DE	120	PHE

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Mol	Chain	Res	Type
3	DE	153	ALA
3	DE	191	LEU
3	DF	20	ASP
3	DF	21	ASN
3	DF	27	PRO
3	DF	78	VAL
3	DF	80	LEU
3	DF	120	PHE
3	DF	153	ALA
3	DF	191	LEU
3	DG	20	ASP
3	DG	21	ASN
3	DG	27	PRO
3	DG	78	VAL
3	DG	80	LEU
3	DG	120	PHE
3	DG	153	ALA
3	DG	191	LEU
3	DH	20	ASP
3	DH	21	ASN
3	DH	27	PRO
3	DH	78	VAL
3	DH	80	LEU
3	DH	120	PHE
3	DH	153	ALA
3	DH	191	LEU
3	DI	20	ASP
3	DI	21	ASN
3	DI	27	PRO
3	DI	78	VAL
3	DI	80	LEU
3	DI	120	PHE
3	DI	153	ALA
3	DI	191	LEU
3	DJ	20	ASP
3	DJ	21	ASN
3	DJ	27	PRO
3	DJ	78	VAL
3	DJ	80	LEU
3	DJ	120	PHE
3	DJ	153	ALA
3	DJ	191	LEU

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Mol	Chain	Res	Type
3	DK	20	ASP
3	DK	21	ASN
3	DK	27	PRO
3	DK	78	VAL
3	DK	80	LEU
3	DK	120	PHE
3	DK	153	ALA
3	DK	191	LEU
3	DL	20	ASP
3	DL	21	ASN
3	DL	27	PRO
3	DL	78	VAL
3	DL	80	LEU
3	DL	120	PHE
3	DL	153	ALA
3	DL	191	LEU
3	DM	20	ASP
3	DM	21	ASN
3	DM	27	PRO
3	DM	78	VAL
3	DM	80	LEU
3	DM	120	PHE
3	DM	153	ALA
3	DM	191	LEU
3	DN	20	ASP
3	DN	21	ASN
3	DN	27	PRO
3	DN	78	VAL
3	DN	80	LEU
3	DN	120	PHE
3	DN	153	ALA
3	DN	191	LEU
3	DO	20	ASP
3	DO	21	ASN
3	DO	27	PRO
3	DO	78	VAL
3	DO	80	LEU
3	DO	120	PHE
3	DO	153	ALA
3	DO	191	LEU
3	DP	20	ASP
3	DP	21	ASN

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Mol	Chain	Res	Type
3	DP	27	PRO
3	DP	78	VAL
3	DP	80	LEU
3	DP	120	PHE
3	DP	153	ALA
3	DP	191	LEU
3	DQ	20	ASP
3	DQ	21	ASN
3	DQ	27	PRO
3	DQ	78	VAL
3	DQ	80	LEU
3	DQ	120	PHE
3	DQ	153	ALA
3	DQ	191	LEU
3	DR	20	ASP
3	DR	21	ASN
3	DR	27	PRO
3	DR	78	VAL
3	DR	80	LEU
3	DR	120	PHE
3	DR	153	ALA
3	DR	191	LEU
3	DS	20	ASP
3	DS	21	ASN
3	DS	27	PRO
3	DS	78	VAL
3	DS	80	LEU
3	DS	120	PHE
3	DS	153	ALA
3	DS	191	LEU
3	DT	20	ASP
3	DT	21	ASN
3	DT	27	PRO
3	DT	78	VAL
3	DT	80	LEU
3	DT	120	PHE
3	DT	153	ALA
3	DT	191	LEU
3	DU	20	ASP
3	DU	21	ASN
3	DU	27	PRO
3	DU	78	VAL

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Mol	Chain	Res	Type
3	DU	80	LEU
3	DU	120	PHE
3	DU	153	ALA
3	DU	191	LEU
3	DV	20	ASP
3	DV	21	ASN
3	DV	27	PRO
3	DV	78	VAL
3	DV	80	LEU
3	DV	120	PHE
3	DV	153	ALA
3	DV	191	LEU
3	DW	20	ASP
3	DW	21	ASN
3	DW	27	PRO
3	DW	78	VAL
3	DW	80	LEU
3	DW	120	PHE
3	DW	153	ALA
3	DW	191	LEU
3	DX	20	ASP
3	DX	21	ASN
3	DX	27	PRO
3	DX	78	VAL
3	DX	80	LEU
3	DX	120	PHE
3	DX	153	ALA
3	DX	191	LEU
3	DY	20	ASP
3	DY	21	ASN
3	DY	27	PRO
3	DY	78	VAL
3	DY	80	LEU
3	DY	120	PHE
3	DY	153	ALA
3	DY	191	LEU
3	DZ	20	ASP
3	DZ	21	ASN
3	DZ	27	PRO
3	DZ	78	VAL
3	DZ	80	LEU
3	DZ	120	PHE

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Mol	Chain	Res	Type
3	DZ	153	ALA
3	DZ	191	LEU
3	Da	20	ASP
3	Da	21	ASN
3	Da	27	PRO
3	Da	78	VAL
3	Da	80	LEU
3	Da	120	PHE
3	Da	153	ALA
3	Da	191	LEU
3	Db	20	ASP
3	Db	21	ASN
3	Db	27	PRO
3	Db	78	VAL
3	Db	80	LEU
3	Db	120	PHE
3	Db	153	ALA
3	Db	191	LEU
3	Dc	20	ASP
3	Dc	21	ASN
3	Dc	27	PRO
3	Dc	78	VAL
3	Dc	80	LEU
3	Dc	120	PHE
3	Dc	153	ALA
3	Dc	191	LEU
3	Dd	20	ASP
3	Dd	21	ASN
3	Dd	27	PRO
3	Dd	78	VAL
3	Dd	80	LEU
3	Dd	120	PHE
3	Dd	153	ALA
3	Dd	191	LEU
3	De	20	ASP
3	De	21	ASN
3	De	27	PRO
3	De	78	VAL
3	De	80	LEU
3	De	120	PHE
3	De	153	ALA
3	De	191	LEU

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Mol	Chain	Res	Type
3	Df	20	ASP
3	Df	21	ASN
3	Df	27	PRO
3	Df	78	VAL
3	Df	80	LEU
3	Df	120	PHE
3	Df	153	ALA
3	Df	191	LEU
3	Dg	20	ASP
3	Dg	21	ASN
3	Dg	27	PRO
3	Dg	78	VAL
3	Dg	80	LEU
3	Dg	120	PHE
3	Dg	153	ALA
3	Dg	191	LEU
3	Dh	20	ASP
3	Dh	21	ASN
3	Dh	27	PRO
3	Dh	78	VAL
3	Dh	80	LEU
3	Dh	120	PHE
3	Dh	153	ALA
3	Dh	191	LEU
3	Di	20	ASP
3	Di	21	ASN
3	Di	27	PRO
3	Di	78	VAL
3	Di	80	LEU
3	Di	120	PHE
3	Di	153	ALA
3	Di	191	LEU
3	Dj	20	ASP
3	Dj	21	ASN
3	Dj	27	PRO
3	Dj	78	VAL
3	Dj	80	LEU
3	Dj	120	PHE
3	Dj	153	ALA
3	Dj	191	LEU
3	Dk	20	ASP
3	Dk	21	ASN

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Mol	Chain	Res	Type
3	Dk	27	PRO
3	Dk	78	VAL
3	Dk	80	LEU
3	Dk	120	PHE
3	Dk	153	ALA
3	Dk	191	LEU
3	Dl	20	ASP
3	Dl	21	ASN
3	Dl	27	PRO
3	Dl	78	VAL
3	Dl	80	LEU
3	Dl	120	PHE
3	Dl	153	ALA
3	Dl	191	LEU
3	Dm	20	ASP
3	Dm	21	ASN
3	Dm	27	PRO
3	Dm	78	VAL
3	Dm	80	LEU
3	Dm	120	PHE
3	Dm	153	ALA
3	Dm	191	LEU
3	Dn	20	ASP
3	Dn	21	ASN
3	Dn	27	PRO
3	Dn	78	VAL
3	Dn	80	LEU
3	Dn	120	PHE
3	Dn	153	ALA
3	Dn	191	LEU
3	Do	20	ASP
3	Do	21	ASN
3	Do	27	PRO
3	Do	78	VAL
3	Do	80	LEU
3	Do	120	PHE
3	Do	153	ALA
3	Do	191	LEU
3	Dp	20	ASP
3	Dp	21	ASN
3	Dp	27	PRO
3	Dp	78	VAL

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Mol	Chain	Res	Type
3	Dp	80	LEU
3	Dp	120	PHE
3	Dp	153	ALA
3	Dp	191	LEU
3	Dq	20	ASP
3	Dq	21	ASN
3	Dq	27	PRO
3	Dq	78	VAL
3	Dq	80	LEU
3	Dq	120	PHE
3	Dq	153	ALA
3	Dq	191	LEU
3	Dr	20	ASP
3	Dr	21	ASN
3	Dr	27	PRO
3	Dr	78	VAL
3	Dr	80	LEU
3	Dr	120	PHE
3	Dr	153	ALA
3	Dr	191	LEU
3	Ds	20	ASP
3	Ds	21	ASN
3	Ds	27	PRO
3	Ds	78	VAL
3	Ds	80	LEU
3	Ds	120	PHE
3	Ds	153	ALA
3	Ds	191	LEU
3	EA	20	ASP
3	EA	21	ASN
3	EA	27	PRO
3	EA	78	VAL
3	EA	80	LEU
3	EA	120	PHE
3	EA	153	ALA
3	EA	191	LEU
3	EB	20	ASP
3	EB	21	ASN
3	EB	27	PRO
3	EB	78	VAL
3	EB	80	LEU
3	EB	120	PHE

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Mol	Chain	Res	Type
3	EB	153	ALA
3	EB	191	LEU
3	EC	20	ASP
3	EC	21	ASN
3	EC	27	PRO
3	EC	78	VAL
3	EC	80	LEU
3	EC	120	PHE
3	EC	153	ALA
3	EC	191	LEU
3	ED	20	ASP
3	ED	21	ASN
3	ED	27	PRO
3	ED	78	VAL
3	ED	80	LEU
3	ED	120	PHE
3	ED	153	ALA
3	ED	191	LEU
3	EE	20	ASP
3	EE	21	ASN
3	EE	27	PRO
3	EE	78	VAL
3	EE	80	LEU
3	EE	120	PHE
3	EE	153	ALA
3	EE	191	LEU
4	F0	17	ASN
4	F1	17	ASN
4	F2	17	ASN
4	F3	17	ASN
4	F4	17	ASN
4	F5	17	ASN
4	F6	17	ASN
4	F7	17	ASN
4	F8	17	ASN
4	F9	17	ASN
4	FA	17	ASN
4	FB	17	ASN
4	FC	17	ASN
4	FD	17	ASN
4	FE	17	ASN
4	FF	17	ASN

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Mol	Chain	Res	Type
4	FG	17	ASN
4	FH	17	ASN
4	FI	17	ASN
4	FJ	17	ASN
4	FK	17	ASN
4	FL	17	ASN
4	FM	17	ASN
4	FN	17	ASN
4	FO	17	ASN
4	FP	17	ASN
4	FQ	17	ASN
4	FR	17	ASN
4	FS	17	ASN
4	FT	17	ASN
4	FU	17	ASN
4	FV	17	ASN
4	FW	17	ASN
4	FX	17	ASN
4	FY	17	ASN
4	FZ	17	ASN
4	Fa	17	ASN
4	Fb	17	ASN
4	Fc	17	ASN
4	Fd	17	ASN
4	Fe	17	ASN
4	Ff	17	ASN
4	Fg	17	ASN
4	Fh	17	ASN
4	Fi	17	ASN
4	Fj	17	ASN
4	Fk	17	ASN
4	Fl	17	ASN
4	Fm	17	ASN
4	Fn	17	ASN
4	Fo	17	ASN
4	Fp	17	ASN
4	Fq	17	ASN
4	Fr	17	ASN
4	Fs	17	ASN
4	Ft	17	ASN
4	Fu	17	ASN
4	Fv	17	ASN

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Mol	Chain	Res	Type
4	Fw	17	ASN
4	Fx	17	ASN
1	A0	42	THR
1	A0	71	LEU
1	A0	88	PHE
1	A0	99	GLU
1	A0	100	GLY
1	A0	114	LYS
1	A0	118	ALA
1	A0	140	PRO
1	A0	150	ARG
1	A0	151	SER
1	A0	207	CYS
1	A1	42	THR
1	A1	71	LEU
1	A1	88	PHE
1	A1	99	GLU
1	A1	100	GLY
1	A1	114	LYS
1	A1	118	ALA
1	A1	140	PRO
1	A1	150	ARG
1	A1	151	SER
1	A1	207	CYS
1	A2	21	PRO
1	A2	42	THR
1	A2	71	LEU
1	A2	88	PHE
1	A2	99	GLU
1	A2	100	GLY
1	A2	114	LYS
1	A2	118	ALA
1	A2	140	PRO
1	A2	150	ARG
1	A2	151	SER
1	A2	207	CYS
1	A3	21	PRO
1	A3	42	THR
1	A3	71	LEU
1	A3	88	PHE
1	A3	99	GLU
1	A3	100	GLY

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Mol	Chain	Res	Type
1	A3	114	LYS
1	A3	118	ALA
1	A3	140	PRO
1	A3	150	ARG
1	A3	151	SER
1	A3	207	CYS
1	A4	21	PRO
1	A4	42	THR
1	A4	71	LEU
1	A4	88	PHE
1	A4	99	GLU
1	A4	100	GLY
1	A4	114	LYS
1	A4	118	ALA
1	A4	140	PRO
1	A4	150	ARG
1	A4	151	SER
1	A4	207	CYS
1	A5	21	PRO
1	A5	42	THR
1	A5	71	LEU
1	A5	88	PHE
1	A5	99	GLU
1	A5	100	GLY
1	A5	114	LYS
1	A5	118	ALA
1	A5	140	PRO
1	A5	150	ARG
1	A5	151	SER
1	A5	207	CYS
1	A6	21	PRO
1	A6	42	THR
1	A6	71	LEU
1	A6	88	PHE
1	A6	99	GLU
1	A6	100	GLY
1	A6	114	LYS
1	A6	118	ALA
1	A6	140	PRO
1	A6	150	ARG
1	A6	151	SER
1	A6	207	CYS

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Mol	Chain	Res	Type
1	A7	42	THR
1	A7	71	LEU
1	A7	88	PHE
1	A7	99	GLU
1	A7	100	GLY
1	A7	114	LYS
1	A7	118	ALA
1	A7	140	PRO
1	A7	150	ARG
1	A7	151	SER
1	A7	207	CYS
1	A8	21	PRO
1	A8	42	THR
1	A8	71	LEU
1	A8	88	PHE
1	A8	99	GLU
1	A8	100	GLY
1	A8	114	LYS
1	A8	118	ALA
1	A8	140	PRO
1	A8	150	ARG
1	A8	151	SER
1	A8	207	CYS
1	A9	42	THR
1	A9	71	LEU
1	A9	88	PHE
1	A9	99	GLU
1	A9	100	GLY
1	A9	114	LYS
1	A9	118	ALA
1	A9	140	PRO
1	A9	150	ARG
1	A9	151	SER
1	A9	207	CYS
1	AA	21	PRO
1	AA	42	THR
1	AA	71	LEU
1	AA	88	PHE
1	AA	99	GLU
1	AA	100	GLY
1	AA	114	LYS
1	AA	118	ALA

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Mol	Chain	Res	Type
1	AA	140	PRO
1	AA	150	ARG
1	AA	151	SER
1	AA	207	CYS
1	AB	21	PRO
1	AB	42	THR
1	AB	71	LEU
1	AB	88	PHE
1	AB	99	GLU
1	AB	100	GLY
1	AB	114	LYS
1	AB	118	ALA
1	AB	140	PRO
1	AB	150	ARG
1	AB	151	SER
1	AB	207	CYS
1	AC	21	PRO
1	AC	42	THR
1	AC	71	LEU
1	AC	88	PHE
1	AC	99	GLU
1	AC	100	GLY
1	AC	114	LYS
1	AC	118	ALA
1	AC	140	PRO
1	AC	150	ARG
1	AC	151	SER
1	AC	207	CYS
1	AD	21	PRO
1	AD	42	THR
1	AD	71	LEU
1	AD	88	PHE
1	AD	99	GLU
1	AD	100	GLY
1	AD	114	LYS
1	AD	118	ALA
1	AD	140	PRO
1	AD	150	ARG
1	AD	151	SER
1	AD	207	CYS
1	AE	42	THR
1	AE	71	LEU

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Mol	Chain	Res	Type
1	AE	88	PHE
1	AE	99	GLU
1	AE	100	GLY
1	AE	114	LYS
1	AE	118	ALA
1	AE	140	PRO
1	AE	150	ARG
1	AE	151	SER
1	AE	207	CYS
1	AF	42	THR
1	AF	71	LEU
1	AF	88	PHE
1	AF	99	GLU
1	AF	100	GLY
1	AF	114	LYS
1	AF	118	ALA
1	AF	140	PRO
1	AF	150	ARG
1	AF	151	SER
1	AF	207	CYS
1	AG	21	PRO
1	AG	42	THR
1	AG	71	LEU
1	AG	88	PHE
1	AG	99	GLU
1	AG	100	GLY
1	AG	114	LYS
1	AG	118	ALA
1	AG	140	PRO
1	AG	150	ARG
1	AG	151	SER
1	AG	207	CYS
1	AH	42	THR
1	AH	71	LEU
1	AH	88	PHE
1	AH	99	GLU
1	AH	100	GLY
1	AH	114	LYS
1	AH	118	ALA
1	AH	140	PRO
1	AH	150	ARG
1	AH	151	SER

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Mol	Chain	Res	Type
1	AH	207	CYS
1	AI	42	THR
1	AI	71	LEU
1	AI	88	PHE
1	AI	99	GLU
1	AI	100	GLY
1	AI	114	LYS
1	AI	118	ALA
1	AI	140	PRO
1	AI	150	ARG
1	AI	151	SER
1	AI	207	CYS
1	AJ	42	THR
1	AJ	71	LEU
1	AJ	88	PHE
1	AJ	99	GLU
1	AJ	100	GLY
1	AJ	114	LYS
1	AJ	118	ALA
1	AJ	140	PRO
1	AJ	150	ARG
1	AJ	151	SER
1	AJ	207	CYS
1	AK	42	THR
1	AK	71	LEU
1	AK	88	PHE
1	AK	99	GLU
1	AK	100	GLY
1	AK	114	LYS
1	AK	118	ALA
1	AK	140	PRO
1	AK	150	ARG
1	AK	151	SER
1	AK	207	CYS
1	AL	42	THR
1	AL	71	LEU
1	AL	88	PHE
1	AL	99	GLU
1	AL	100	GLY
1	AL	114	LYS
1	AL	118	ALA
1	AL	140	PRO

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Mol	Chain	Res	Type
1	AL	150	ARG
1	AL	151	SER
1	AL	207	CYS
1	AM	42	THR
1	AM	71	LEU
1	AM	88	PHE
1	AM	99	GLU
1	AM	100	GLY
1	AM	114	LYS
1	AM	118	ALA
1	AM	140	PRO
1	AM	150	ARG
1	AM	151	SER
1	AM	207	CYS
1	AN	42	THR
1	AN	71	LEU
1	AN	88	PHE
1	AN	99	GLU
1	AN	100	GLY
1	AN	114	LYS
1	AN	118	ALA
1	AN	140	PRO
1	AN	150	ARG
1	AN	151	SER
1	AN	207	CYS
1	AO	42	THR
1	AO	71	LEU
1	AO	88	PHE
1	AO	99	GLU
1	AO	100	GLY
1	AO	114	LYS
1	AO	118	ALA
1	AO	140	PRO
1	AO	150	ARG
1	AO	151	SER
1	AO	207	CYS
1	AP	21	PRO
1	AP	42	THR
1	AP	71	LEU
1	AP	88	PHE
1	AP	99	GLU
1	AP	100	GLY

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Mol	Chain	Res	Type
1	AP	114	LYS
1	AP	118	ALA
1	AP	140	PRO
1	AP	150	ARG
1	AP	151	SER
1	AP	207	CYS
1	AQ	21	PRO
1	AQ	42	THR
1	AQ	71	LEU
1	AQ	88	PHE
1	AQ	99	GLU
1	AQ	100	GLY
1	AQ	114	LYS
1	AQ	118	ALA
1	AQ	140	PRO
1	AQ	150	ARG
1	AQ	151	SER
1	AQ	207	CYS
1	AR	21	PRO
1	AR	42	THR
1	AR	71	LEU
1	AR	88	PHE
1	AR	99	GLU
1	AR	100	GLY
1	AR	114	LYS
1	AR	118	ALA
1	AR	140	PRO
1	AR	150	ARG
1	AR	151	SER
1	AR	207	CYS
1	AS	21	PRO
1	AS	42	THR
1	AS	71	LEU
1	AS	88	PHE
1	AS	99	GLU
1	AS	100	GLY
1	AS	114	LYS
1	AS	118	ALA
1	AS	140	PRO
1	AS	150	ARG
1	AS	151	SER
1	AS	207	CYS

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Mol	Chain	Res	Type
1	AT	21	PRO
1	AT	42	THR
1	AT	71	LEU
1	AT	88	PHE
1	AT	99	GLU
1	AT	100	GLY
1	AT	114	LYS
1	AT	118	ALA
1	AT	140	PRO
1	AT	150	ARG
1	AT	151	SER
1	AT	207	CYS
1	AU	21	PRO
1	AU	42	THR
1	AU	71	LEU
1	AU	88	PHE
1	AU	99	GLU
1	AU	100	GLY
1	AU	114	LYS
1	AU	118	ALA
1	AU	140	PRO
1	AU	150	ARG
1	AU	151	SER
1	AU	207	CYS
1	AV	21	PRO
1	AV	42	THR
1	AV	71	LEU
1	AV	88	PHE
1	AV	99	GLU
1	AV	100	GLY
1	AV	114	LYS
1	AV	118	ALA
1	AV	140	PRO
1	AV	150	ARG
1	AV	151	SER
1	AV	207	CYS
1	AW	42	THR
1	AW	71	LEU
1	AW	88	PHE
1	AW	99	GLU
1	AW	100	GLY
1	AW	114	LYS

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Mol	Chain	Res	Type
1	AW	118	ALA
1	AW	140	PRO
1	AW	150	ARG
1	AW	151	SER
1	AW	207	CYS
1	AX	21	PRO
1	AX	42	THR
1	AX	71	LEU
1	AX	88	PHE
1	AX	99	GLU
1	AX	100	GLY
1	AX	114	LYS
1	AX	118	ALA
1	AX	140	PRO
1	AX	150	ARG
1	AX	151	SER
1	AX	207	CYS
1	AY	42	THR
1	AY	71	LEU
1	AY	88	PHE
1	AY	99	GLU
1	AY	100	GLY
1	AY	114	LYS
1	AY	118	ALA
1	AY	140	PRO
1	AY	150	ARG
1	AY	151	SER
1	AY	207	CYS
1	AZ	42	THR
1	AZ	71	LEU
1	AZ	88	PHE
1	AZ	99	GLU
1	AZ	100	GLY
1	AZ	114	LYS
1	AZ	118	ALA
1	AZ	140	PRO
1	AZ	150	ARG
1	AZ	151	SER
1	AZ	207	CYS
1	Aa	21	PRO
1	Aa	42	THR
1	Aa	71	LEU

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Mol	Chain	Res	Type
1	Aa	88	PHE
1	Aa	99	GLU
1	Aa	100	GLY
1	Aa	114	LYS
1	Aa	118	ALA
1	Aa	140	PRO
1	Aa	150	ARG
1	Aa	151	SER
1	Aa	207	CYS
1	Ab	21	PRO
1	Ab	42	THR
1	Ab	71	LEU
1	Ab	88	PHE
1	Ab	99	GLU
1	Ab	100	GLY
1	Ab	114	LYS
1	Ab	118	ALA
1	Ab	140	PRO
1	Ab	150	ARG
1	Ab	151	SER
1	Ab	207	CYS
1	Ac	42	THR
1	Ac	71	LEU
1	Ac	88	PHE
1	Ac	99	GLU
1	Ac	100	GLY
1	Ac	114	LYS
1	Ac	118	ALA
1	Ac	140	PRO
1	Ac	150	ARG
1	Ac	151	SER
1	Ac	207	CYS
1	Ad	21	PRO
1	Ad	42	THR
1	Ad	71	LEU
1	Ad	88	PHE
1	Ad	99	GLU
1	Ad	100	GLY
1	Ad	114	LYS
1	Ad	118	ALA
1	Ad	140	PRO
1	Ad	150	ARG

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Mol	Chain	Res	Type
1	Ad	151	SER
1	Ad	207	CYS
1	Ae	42	THR
1	Ae	71	LEU
1	Ae	88	PHE
1	Ae	99	GLU
1	Ae	100	GLY
1	Ae	114	LYS
1	Ae	118	ALA
1	Ae	140	PRO
1	Ae	150	ARG
1	Ae	151	SER
1	Ae	207	CYS
1	Af	42	THR
1	Af	71	LEU
1	Af	88	PHE
1	Af	99	GLU
1	Af	100	GLY
1	Af	114	LYS
1	Af	118	ALA
1	Af	140	PRO
1	Af	150	ARG
1	Af	151	SER
1	Af	207	CYS
1	Ag	21	PRO
1	Ag	42	THR
1	Ag	71	LEU
1	Ag	88	PHE
1	Ag	99	GLU
1	Ag	100	GLY
1	Ag	114	LYS
1	Ag	118	ALA
1	Ag	140	PRO
1	Ag	150	ARG
1	Ag	151	SER
1	Ag	207	CYS
1	Ah	21	PRO
1	Ah	42	THR
1	Ah	71	LEU
1	Ah	88	PHE
1	Ah	99	GLU
1	Ah	100	GLY

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Mol	Chain	Res	Type
1	Ah	114	LYS
1	Ah	118	ALA
1	Ah	140	PRO
1	Ah	150	ARG
1	Ah	151	SER
1	Ah	207	CYS
1	Ai	42	THR
1	Ai	71	LEU
1	Ai	88	PHE
1	Ai	99	GLU
1	Ai	100	GLY
1	Ai	114	LYS
1	Ai	118	ALA
1	Ai	140	PRO
1	Ai	150	ARG
1	Ai	151	SER
1	Ai	207	CYS
1	Aj	42	THR
1	Aj	71	LEU
1	Aj	88	PHE
1	Aj	99	GLU
1	Aj	100	GLY
1	Aj	114	LYS
1	Aj	118	ALA
1	Aj	140	PRO
1	Aj	150	ARG
1	Aj	151	SER
1	Aj	207	CYS
1	Ak	21	PRO
1	Ak	42	THR
1	Ak	71	LEU
1	Ak	88	PHE
1	Ak	99	GLU
1	Ak	100	GLY
1	Ak	114	LYS
1	Ak	118	ALA
1	Ak	140	PRO
1	Ak	150	ARG
1	Ak	151	SER
1	Ak	207	CYS
1	Al	42	THR
1	Al	71	LEU

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Mol	Chain	Res	Type
1	Al	88	PHE
1	Al	99	GLU
1	Al	100	GLY
1	Al	114	LYS
1	Al	118	ALA
1	Al	140	PRO
1	Al	150	ARG
1	Al	151	SER
1	Al	207	CYS
1	Am	42	THR
1	Am	71	LEU
1	Am	88	PHE
1	Am	99	GLU
1	Am	100	GLY
1	Am	114	LYS
1	Am	118	ALA
1	Am	140	PRO
1	Am	150	ARG
1	Am	151	SER
1	Am	207	CYS
1	An	21	PRO
1	An	42	THR
1	An	71	LEU
1	An	88	PHE
1	An	99	GLU
1	An	100	GLY
1	An	114	LYS
1	An	118	ALA
1	An	140	PRO
1	An	150	ARG
1	An	151	SER
1	An	207	CYS
1	Ao	21	PRO
1	Ao	42	THR
1	Ao	71	LEU
1	Ao	88	PHE
1	Ao	99	GLU
1	Ao	100	GLY
1	Ao	114	LYS
1	Ao	118	ALA
1	Ao	140	PRO
1	Ao	150	ARG

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Mol	Chain	Res	Type
1	Ao	151	SER
1	Ao	207	CYS
1	BA	42	THR
1	BA	71	LEU
1	BA	88	PHE
1	BA	99	GLU
1	BA	100	GLY
1	BA	114	LYS
1	BA	118	ALA
1	BA	140	PRO
1	BA	150	ARG
1	BA	151	SER
1	BA	207	CYS
1	BB	42	THR
1	BB	71	LEU
1	BB	88	PHE
1	BB	99	GLU
1	BB	100	GLY
1	BB	114	LYS
1	BB	118	ALA
1	BB	140	PRO
1	BB	150	ARG
1	BB	151	SER
1	BB	207	CYS
1	BC	21	PRO
1	BC	42	THR
1	BC	71	LEU
1	BC	88	PHE
1	BC	99	GLU
1	BC	100	GLY
1	BC	114	LYS
1	BC	118	ALA
1	BC	140	PRO
1	BC	150	ARG
1	BC	151	SER
1	BC	207	CYS
1	BD	21	PRO
1	BD	42	THR
1	BD	71	LEU
1	BD	88	PHE
1	BD	99	GLU
1	BD	100	GLY

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Mol	Chain	Res	Type
1	BD	114	LYS
1	BD	118	ALA
1	BD	140	PRO
1	BD	150	ARG
1	BD	151	SER
1	BD	207	CYS
1	BE	21	PRO
1	BE	42	THR
1	BE	71	LEU
1	BE	88	PHE
1	BE	99	GLU
1	BE	100	GLY
1	BE	114	LYS
1	BE	118	ALA
1	BE	140	PRO
1	BE	150	ARG
1	BE	151	SER
1	BE	207	CYS
1	BF	21	PRO
1	BF	42	THR
1	BF	71	LEU
1	BF	88	PHE
1	BF	99	GLU
1	BF	100	GLY
1	BF	114	LYS
1	BF	118	ALA
1	BF	140	PRO
1	BF	150	ARG
1	BF	151	SER
1	BF	207	CYS
1	BG	21	PRO
1	BG	42	THR
1	BG	71	LEU
1	BG	88	PHE
1	BG	99	GLU
1	BG	100	GLY
1	BG	114	LYS
1	BG	118	ALA
1	BG	140	PRO
1	BG	150	ARG
1	BG	151	SER
1	BG	207	CYS

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Mol	Chain	Res	Type
1	BH	21	PRO
1	BH	42	THR
1	BH	71	LEU
1	BH	88	PHE
1	BH	99	GLU
1	BH	100	GLY
1	BH	114	LYS
1	BH	118	ALA
1	BH	140	PRO
1	BH	150	ARG
1	BH	151	SER
1	BH	207	CYS
1	BI	42	THR
1	BI	71	LEU
1	BI	88	PHE
1	BI	99	GLU
1	BI	100	GLY
1	BI	114	LYS
1	BI	118	ALA
1	BI	140	PRO
1	BI	150	ARG
1	BI	151	SER
1	BI	207	CYS
2	C0	28	GLY
2	C0	43	PRO
2	C0	134	HIS
2	C0	135	THR
2	C1	28	GLY
2	C1	43	PRO
2	C1	134	HIS
2	C1	135	THR
2	C2	28	GLY
2	C2	43	PRO
2	C2	134	HIS
2	C2	135	THR
2	C3	28	GLY
2	C3	43	PRO
2	C3	134	HIS
2	C3	135	THR
2	C4	28	GLY
2	C4	43	PRO
2	C4	134	HIS

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Mol	Chain	Res	Type
2	C4	135	THR
2	C5	28	GLY
2	C5	43	PRO
2	C5	134	HIS
2	C5	135	THR
2	C6	28	GLY
2	C6	43	PRO
2	C6	134	HIS
2	C6	135	THR
2	C7	28	GLY
2	C7	43	PRO
2	C7	134	HIS
2	C7	135	THR
2	C8	28	GLY
2	C8	43	PRO
2	C8	134	HIS
2	C8	135	THR
2	C9	28	GLY
2	C9	43	PRO
2	C9	134	HIS
2	C9	135	THR
2	CA	28	GLY
2	CA	43	PRO
2	CA	134	HIS
2	CA	135	THR
2	CB	28	GLY
2	CB	43	PRO
2	CB	134	HIS
2	CB	135	THR
2	CC	28	GLY
2	CC	43	PRO
2	CC	134	HIS
2	CC	135	THR
2	CD	28	GLY
2	CD	43	PRO
2	CD	134	HIS
2	CD	135	THR
2	CE	28	GLY
2	CE	43	PRO
2	CE	134	HIS
2	CE	135	THR
2	CF	28	GLY

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Mol	Chain	Res	Type
2	CF	43	PRO
2	CF	134	HIS
2	CF	135	THR
2	CG	28	GLY
2	CG	43	PRO
2	CG	134	HIS
2	CG	135	THR
2	CH	28	GLY
2	CH	43	PRO
2	CH	134	HIS
2	CH	135	THR
2	CI	28	GLY
2	CI	43	PRO
2	CI	134	HIS
2	CI	135	THR
2	CJ	28	GLY
2	CJ	43	PRO
2	CJ	134	HIS
2	CJ	135	THR
2	CK	28	GLY
2	CK	43	PRO
2	CK	134	HIS
2	CK	135	THR
2	CL	28	GLY
2	CL	43	PRO
2	CL	134	HIS
2	CL	135	THR
2	CM	28	GLY
2	CM	43	PRO
2	CM	134	HIS
2	CM	135	THR
2	CN	28	GLY
2	CN	43	PRO
2	CN	134	HIS
2	CN	135	THR
2	CO	28	GLY
2	CO	43	PRO
2	CO	134	HIS
2	CO	135	THR
2	CP	28	GLY
2	CP	43	PRO
2	CP	134	HIS

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Mol	Chain	Res	Type
2	CP	135	THR
2	CQ	28	GLY
2	CQ	43	PRO
2	CQ	134	HIS
2	CQ	135	THR
2	CR	28	GLY
2	CR	43	PRO
2	CR	134	HIS
2	CR	135	THR
2	CS	28	GLY
2	CS	43	PRO
2	CS	134	HIS
2	CS	135	THR
2	CT	28	GLY
2	CT	43	PRO
2	CT	134	HIS
2	CT	135	THR
2	CU	28	GLY
2	CU	43	PRO
2	CU	134	HIS
2	CU	135	THR
2	CV	28	GLY
2	CV	43	PRO
2	CV	134	HIS
2	CV	135	THR
2	CW	28	GLY
2	CW	43	PRO
2	CW	134	HIS
2	CW	135	THR
2	CX	28	GLY
2	CX	43	PRO
2	CX	134	HIS
2	CX	135	THR
2	CY	28	GLY
2	CY	43	PRO
2	CY	134	HIS
2	CY	135	THR
2	CZ	28	GLY
2	CZ	43	PRO
2	CZ	134	HIS
2	CZ	135	THR
2	Ca	28	GLY

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Mol	Chain	Res	Type
2	Ca	43	PRO
2	Ca	134	HIS
2	Ca	135	THR
2	Cb	28	GLY
2	Cb	43	PRO
2	Cb	134	HIS
2	Cb	135	THR
2	Cc	28	GLY
2	Cc	43	PRO
2	Cc	134	HIS
2	Cc	135	THR
2	Cd	28	GLY
2	Cd	43	PRO
2	Cd	134	HIS
2	Cd	135	THR
2	Ce	28	GLY
2	Ce	43	PRO
2	Ce	134	HIS
2	Ce	135	THR
2	Cf	28	GLY
2	Cf	43	PRO
2	Cf	134	HIS
2	Cf	135	THR
2	Cg	28	GLY
2	Cg	43	PRO
2	Cg	134	HIS
2	Cg	135	THR
2	Ch	28	GLY
2	Ch	43	PRO
2	Ch	134	HIS
2	Ch	135	THR
2	Ci	28	GLY
2	Ci	43	PRO
2	Ci	134	HIS
2	Ci	135	THR
2	Cj	28	GLY
2	Cj	43	PRO
2	Cj	134	HIS
2	Cj	135	THR
2	Ck	28	GLY
2	Ck	43	PRO
2	Ck	134	HIS

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Mol	Chain	Res	Type
2	Ck	135	THR
2	Cl	28	GLY
2	Cl	43	PRO
2	Cl	134	HIS
2	Cl	135	THR
2	Cm	28	GLY
2	Cm	43	PRO
2	Cm	134	HIS
2	Cm	135	THR
2	Cn	28	GLY
2	Cn	43	PRO
2	Cn	134	HIS
2	Cn	135	THR
2	Co	28	GLY
2	Co	43	PRO
2	Co	134	HIS
2	Co	135	THR
2	Cp	28	GLY
2	Cp	43	PRO
2	Cp	134	HIS
2	Cp	135	THR
2	Cq	28	GLY
2	Cq	43	PRO
2	Cq	134	HIS
2	Cq	135	THR
2	Cr	28	GLY
2	Cr	43	PRO
2	Cr	134	HIS
2	Cr	135	THR
2	Cs	28	GLY
2	Cs	43	PRO
2	Cs	134	HIS
2	Cs	135	THR
2	Ct	28	GLY
2	Ct	43	PRO
2	Ct	134	HIS
2	Ct	135	THR
2	Cu	28	GLY
2	Cu	43	PRO
2	Cu	134	HIS
2	Cu	135	THR
2	Cv	28	GLY

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Mol	Chain	Res	Type
2	Cv	43	PRO
2	Cv	134	HIS
2	Cv	135	THR
2	Cw	28	GLY
2	Cw	43	PRO
2	Cw	134	HIS
2	Cw	135	THR
2	Cx	28	GLY
2	Cx	43	PRO
2	Cx	134	HIS
2	Cx	135	THR
3	D0	14	PHE
3	D0	15	MET
3	D0	113	ALA
3	D0	128	HIS
3	D0	129	SER
3	D0	150	LEU
3	D0	152	SER
3	D1	14	PHE
3	D1	15	MET
3	D1	113	ALA
3	D1	128	HIS
3	D1	129	SER
3	D1	150	LEU
3	D1	152	SER
3	D2	14	PHE
3	D2	15	MET
3	D2	113	ALA
3	D2	128	HIS
3	D2	129	SER
3	D2	150	LEU
3	D2	152	SER
3	D3	14	PHE
3	D3	15	MET
3	D3	113	ALA
3	D3	128	HIS
3	D3	129	SER
3	D3	150	LEU
3	D3	152	SER
3	D4	14	PHE
3	D4	15	MET
3	D4	113	ALA

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Mol	Chain	Res	Type
3	D4	128	HIS
3	D4	129	SER
3	D4	150	LEU
3	D4	152	SER
3	D5	14	PHE
3	D5	15	MET
3	D5	113	ALA
3	D5	128	HIS
3	D5	129	SER
3	D5	150	LEU
3	D5	152	SER
3	D6	14	PHE
3	D6	15	MET
3	D6	113	ALA
3	D6	128	HIS
3	D6	129	SER
3	D6	150	LEU
3	D6	152	SER
3	D7	14	PHE
3	D7	15	MET
3	D7	113	ALA
3	D7	128	HIS
3	D7	129	SER
3	D7	150	LEU
3	D7	152	SER
3	D8	14	PHE
3	D8	15	MET
3	D8	113	ALA
3	D8	128	HIS
3	D8	129	SER
3	D8	150	LEU
3	D8	152	SER
3	D9	14	PHE
3	D9	15	MET
3	D9	113	ALA
3	D9	128	HIS
3	D9	129	SER
3	D9	150	LEU
3	D9	152	SER
3	DA	14	PHE
3	DA	15	MET
3	DA	113	ALA

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Mol	Chain	Res	Type
3	DA	128	HIS
3	DA	129	SER
3	DA	150	LEU
3	DA	152	SER
3	DB	14	PHE
3	DB	15	MET
3	DB	113	ALA
3	DB	128	HIS
3	DB	129	SER
3	DB	150	LEU
3	DB	152	SER
3	DC	14	PHE
3	DC	15	MET
3	DC	113	ALA
3	DC	128	HIS
3	DC	129	SER
3	DC	150	LEU
3	DC	152	SER
3	DD	14	PHE
3	DD	15	MET
3	DD	113	ALA
3	DD	128	HIS
3	DD	129	SER
3	DD	150	LEU
3	DD	152	SER
3	DE	14	PHE
3	DE	15	MET
3	DE	113	ALA
3	DE	128	HIS
3	DE	129	SER
3	DE	150	LEU
3	DE	152	SER
3	DF	14	PHE
3	DF	15	MET
3	DF	113	ALA
3	DF	128	HIS
3	DF	129	SER
3	DF	150	LEU
3	DF	152	SER
3	DG	14	PHE
3	DG	15	MET
3	DG	113	ALA

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Mol	Chain	Res	Type
3	DG	128	HIS
3	DG	129	SER
3	DG	150	LEU
3	DG	152	SER
3	DH	14	PHE
3	DH	15	MET
3	DH	113	ALA
3	DH	128	HIS
3	DH	129	SER
3	DH	150	LEU
3	DH	152	SER
3	DI	14	PHE
3	DI	15	MET
3	DI	113	ALA
3	DI	128	HIS
3	DI	129	SER
3	DI	150	LEU
3	DI	152	SER
3	DJ	14	PHE
3	DJ	15	MET
3	DJ	113	ALA
3	DJ	128	HIS
3	DJ	129	SER
3	DJ	150	LEU
3	DJ	152	SER
3	DK	14	PHE
3	DK	15	MET
3	DK	113	ALA
3	DK	128	HIS
3	DK	129	SER
3	DK	150	LEU
3	DK	152	SER
3	DL	14	PHE
3	DL	15	MET
3	DL	113	ALA
3	DL	128	HIS
3	DL	129	SER
3	DL	150	LEU
3	DL	152	SER
3	DM	14	PHE
3	DM	15	MET
3	DM	113	ALA

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Mol	Chain	Res	Type
3	DM	128	HIS
3	DM	129	SER
3	DM	150	LEU
3	DM	152	SER
3	DN	14	PHE
3	DN	15	MET
3	DN	113	ALA
3	DN	128	HIS
3	DN	129	SER
3	DN	150	LEU
3	DN	152	SER
3	DO	14	PHE
3	DO	15	MET
3	DO	113	ALA
3	DO	128	HIS
3	DO	129	SER
3	DO	150	LEU
3	DO	152	SER
3	DP	14	PHE
3	DP	15	MET
3	DP	113	ALA
3	DP	128	HIS
3	DP	129	SER
3	DP	150	LEU
3	DP	152	SER
3	DQ	14	PHE
3	DQ	15	MET
3	DQ	113	ALA
3	DQ	128	HIS
3	DQ	129	SER
3	DQ	150	LEU
3	DQ	152	SER
3	DR	14	PHE
3	DR	15	MET
3	DR	113	ALA
3	DR	128	HIS
3	DR	129	SER
3	DR	150	LEU
3	DR	152	SER
3	DS	14	PHE
3	DS	15	MET
3	DS	113	ALA

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Mol	Chain	Res	Type
3	DS	128	HIS
3	DS	129	SER
3	DS	150	LEU
3	DS	152	SER
3	DT	14	PHE
3	DT	15	MET
3	DT	113	ALA
3	DT	128	HIS
3	DT	129	SER
3	DT	150	LEU
3	DT	152	SER
3	DU	14	PHE
3	DU	15	MET
3	DU	113	ALA
3	DU	128	HIS
3	DU	129	SER
3	DU	150	LEU
3	DU	152	SER
3	DV	14	PHE
3	DV	15	MET
3	DV	113	ALA
3	DV	128	HIS
3	DV	129	SER
3	DV	150	LEU
3	DV	152	SER
3	DW	14	PHE
3	DW	15	MET
3	DW	113	ALA
3	DW	128	HIS
3	DW	129	SER
3	DW	150	LEU
3	DW	152	SER
3	DX	14	PHE
3	DX	15	MET
3	DX	113	ALA
3	DX	128	HIS
3	DX	129	SER
3	DX	150	LEU
3	DX	152	SER
3	DY	14	PHE
3	DY	15	MET
3	DY	113	ALA

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Mol	Chain	Res	Type
3	DY	128	HIS
3	DY	129	SER
3	DY	150	LEU
3	DY	152	SER
3	DZ	14	PHE
3	DZ	15	MET
3	DZ	113	ALA
3	DZ	128	HIS
3	DZ	129	SER
3	DZ	150	LEU
3	DZ	152	SER
3	Da	14	PHE
3	Da	15	MET
3	Da	113	ALA
3	Da	128	HIS
3	Da	129	SER
3	Da	150	LEU
3	Da	152	SER
3	Db	14	PHE
3	Db	15	MET
3	Db	113	ALA
3	Db	128	HIS
3	Db	129	SER
3	Db	150	LEU
3	Db	152	SER
3	Dc	14	PHE
3	Dc	15	MET
3	Dc	113	ALA
3	Dc	128	HIS
3	Dc	129	SER
3	Dc	150	LEU
3	Dc	152	SER
3	Dd	14	PHE
3	Dd	15	MET
3	Dd	113	ALA
3	Dd	128	HIS
3	Dd	129	SER
3	Dd	150	LEU
3	Dd	152	SER
3	De	14	PHE
3	De	15	MET
3	De	113	ALA

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Mol	Chain	Res	Type
3	De	128	HIS
3	De	129	SER
3	De	150	LEU
3	De	152	SER
3	Df	14	PHE
3	Df	15	MET
3	Df	113	ALA
3	Df	128	HIS
3	Df	129	SER
3	Df	150	LEU
3	Df	152	SER
3	Dg	14	PHE
3	Dg	15	MET
3	Dg	113	ALA
3	Dg	128	HIS
3	Dg	129	SER
3	Dg	150	LEU
3	Dg	152	SER
3	Dh	14	PHE
3	Dh	15	MET
3	Dh	113	ALA
3	Dh	128	HIS
3	Dh	129	SER
3	Dh	150	LEU
3	Dh	152	SER
3	Di	14	PHE
3	Di	15	MET
3	Di	113	ALA
3	Di	128	HIS
3	Di	129	SER
3	Di	150	LEU
3	Di	152	SER
3	Dj	14	PHE
3	Dj	15	MET
3	Dj	113	ALA
3	Dj	128	HIS
3	Dj	129	SER
3	Dj	150	LEU
3	Dj	152	SER
3	Dk	14	PHE
3	Dk	15	MET
3	Dk	113	ALA

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Mol	Chain	Res	Type
3	Dk	128	HIS
3	Dk	129	SER
3	Dk	150	LEU
3	Dk	152	SER
3	Dl	14	PHE
3	Dl	15	MET
3	Dl	113	ALA
3	Dl	128	HIS
3	Dl	129	SER
3	Dl	150	LEU
3	Dl	152	SER
3	Dm	14	PHE
3	Dm	15	MET
3	Dm	113	ALA
3	Dm	128	HIS
3	Dm	129	SER
3	Dm	150	LEU
3	Dm	152	SER
3	Dn	14	PHE
3	Dn	15	MET
3	Dn	113	ALA
3	Dn	128	HIS
3	Dn	129	SER
3	Dn	150	LEU
3	Dn	152	SER
3	Do	14	PHE
3	Do	15	MET
3	Do	113	ALA
3	Do	128	HIS
3	Do	129	SER
3	Do	150	LEU
3	Do	152	SER
3	Dp	14	PHE
3	Dp	15	MET
3	Dp	113	ALA
3	Dp	128	HIS
3	Dp	129	SER
3	Dp	150	LEU
3	Dp	152	SER
3	Dq	14	PHE
3	Dq	15	MET
3	Dq	113	ALA

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Mol	Chain	Res	Type
3	Dq	128	HIS
3	Dq	129	SER
3	Dq	150	LEU
3	Dq	152	SER
3	Dr	14	PHE
3	Dr	15	MET
3	Dr	113	ALA
3	Dr	128	HIS
3	Dr	129	SER
3	Dr	150	LEU
3	Dr	152	SER
3	Ds	14	PHE
3	Ds	15	MET
3	Ds	113	ALA
3	Ds	128	HIS
3	Ds	129	SER
3	Ds	150	LEU
3	Ds	152	SER
3	EA	14	PHE
3	EA	15	MET
3	EA	113	ALA
3	EA	128	HIS
3	EA	129	SER
3	EA	150	LEU
3	EA	152	SER
3	EB	14	PHE
3	EB	15	MET
3	EB	113	ALA
3	EB	128	HIS
3	EB	129	SER
3	EB	150	LEU
3	EB	152	SER
3	EC	14	PHE
3	EC	15	MET
3	EC	113	ALA
3	EC	128	HIS
3	EC	129	SER
3	EC	150	LEU
3	EC	152	SER
3	ED	14	PHE
3	ED	15	MET
3	ED	113	ALA

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Mol	Chain	Res	Type
3	ED	128	HIS
3	ED	129	SER
3	ED	150	LEU
3	ED	152	SER
3	EE	14	PHE
3	EE	15	MET
3	EE	113	ALA
3	EE	128	HIS
3	EE	129	SER
3	EE	150	LEU
3	EE	152	SER
4	F0	31	GLN
4	F1	31	GLN
4	F2	31	GLN
4	F3	31	GLN
4	F4	31	GLN
4	F5	31	GLN
4	F6	31	GLN
4	F7	31	GLN
4	F8	31	GLN
4	F9	31	GLN
4	FA	31	GLN
4	FB	31	GLN
4	FC	31	GLN
4	FD	31	GLN
4	FE	31	GLN
4	FF	31	GLN
4	FG	31	GLN
4	FH	31	GLN
4	FI	31	GLN
4	FJ	31	GLN
4	FK	31	GLN
4	FL	31	GLN
4	FM	31	GLN
4	FN	31	GLN
4	FO	31	GLN
4	FP	31	GLN
4	FQ	31	GLN
4	FR	31	GLN
4	FS	31	GLN
4	FT	31	GLN
4	FU	31	GLN

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Mol	Chain	Res	Type
4	FV	31	GLN
4	FW	31	GLN
4	FX	31	GLN
4	FY	31	GLN
4	FZ	31	GLN
4	Fa	31	GLN
4	Fb	31	GLN
4	Fc	31	GLN
4	Fd	31	GLN
4	Fe	31	GLN
4	Ff	31	GLN
4	Fg	31	GLN
4	Fh	31	GLN
4	Fi	31	GLN
4	Fj	31	GLN
4	Fk	31	GLN
4	Fl	31	GLN
4	Fm	31	GLN
4	Fn	31	GLN
4	Fo	31	GLN
4	Fp	31	GLN
4	Fq	31	GLN
4	Fr	31	GLN
4	Fs	31	GLN
4	Ft	31	GLN
4	Fu	31	GLN
4	Fv	31	GLN
4	Fw	31	GLN
4	Fx	31	GLN
1	A0	21	PRO
1	A0	94	PRO
1	A0	152	GLN
1	A0	184	TYR
1	A0	187	LEU
1	A0	213	PHE
1	A0	231	PRO
1	A1	21	PRO
1	A1	94	PRO
1	A1	152	GLN
1	A1	184	TYR
1	A1	187	LEU
1	A1	213	PHE

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Mol	Chain	Res	Type
1	A1	231	PRO
1	A2	94	PRO
1	A2	152	GLN
1	A2	184	TYR
1	A2	187	LEU
1	A2	213	PHE
1	A2	231	PRO
1	A3	94	PRO
1	A3	152	GLN
1	A3	184	TYR
1	A3	187	LEU
1	A3	213	PHE
1	A3	231	PRO
1	A4	94	PRO
1	A4	152	GLN
1	A4	184	TYR
1	A4	187	LEU
1	A4	213	PHE
1	A4	231	PRO
1	A5	94	PRO
1	A5	152	GLN
1	A5	184	TYR
1	A5	187	LEU
1	A5	213	PHE
1	A5	231	PRO
1	A6	94	PRO
1	A6	152	GLN
1	A6	184	TYR
1	A6	187	LEU
1	A6	213	PHE
1	A6	231	PRO
1	A7	21	PRO
1	A7	94	PRO
1	A7	152	GLN
1	A7	184	TYR
1	A7	187	LEU
1	A7	213	PHE
1	A7	231	PRO
1	A8	94	PRO
1	A8	152	GLN
1	A8	184	TYR
1	A8	187	LEU

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Mol	Chain	Res	Type
1	A8	213	PHE
1	A8	231	PRO
1	A9	21	PRO
1	A9	94	PRO
1	A9	152	GLN
1	A9	184	TYR
1	A9	187	LEU
1	A9	213	PHE
1	A9	231	PRO
1	AA	94	PRO
1	AA	152	GLN
1	AA	184	TYR
1	AA	187	LEU
1	AA	213	PHE
1	AA	231	PRO
1	AB	94	PRO
1	AB	152	GLN
1	AB	184	TYR
1	AB	187	LEU
1	AB	213	PHE
1	AB	231	PRO
1	AC	94	PRO
1	AC	152	GLN
1	AC	184	TYR
1	AC	187	LEU
1	AC	213	PHE
1	AC	231	PRO
1	AD	94	PRO
1	AD	152	GLN
1	AD	184	TYR
1	AD	187	LEU
1	AD	213	PHE
1	AD	231	PRO
1	AE	21	PRO
1	AE	94	PRO
1	AE	152	GLN
1	AE	184	TYR
1	AE	187	LEU
1	AE	213	PHE
1	AE	231	PRO
1	AF	21	PRO
1	AF	94	PRO

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Mol	Chain	Res	Type
1	AF	152	GLN
1	AF	184	TYR
1	AF	187	LEU
1	AF	213	PHE
1	AF	231	PRO
1	AG	94	PRO
1	AG	152	GLN
1	AG	184	TYR
1	AG	187	LEU
1	AG	213	PHE
1	AG	231	PRO
1	AH	21	PRO
1	AH	94	PRO
1	AH	152	GLN
1	AH	184	TYR
1	AH	187	LEU
1	AH	213	PHE
1	AH	231	PRO
1	AI	21	PRO
1	AI	94	PRO
1	AI	152	GLN
1	AI	184	TYR
1	AI	187	LEU
1	AI	213	PHE
1	AI	231	PRO
1	AJ	21	PRO
1	AJ	94	PRO
1	AJ	152	GLN
1	AJ	184	TYR
1	AJ	187	LEU
1	AJ	213	PHE
1	AJ	231	PRO
1	AK	21	PRO
1	AK	94	PRO
1	AK	152	GLN
1	AK	184	TYR
1	AK	187	LEU
1	AK	213	PHE
1	AK	231	PRO
1	AL	21	PRO
1	AL	94	PRO
1	AL	152	GLN

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Mol	Chain	Res	Type
1	AL	184	TYR
1	AL	187	LEU
1	AL	213	PHE
1	AL	231	PRO
1	AM	21	PRO
1	AM	94	PRO
1	AM	152	GLN
1	AM	184	TYR
1	AM	187	LEU
1	AM	213	PHE
1	AM	231	PRO
1	AN	21	PRO
1	AN	94	PRO
1	AN	152	GLN
1	AN	184	TYR
1	AN	187	LEU
1	AN	213	PHE
1	AN	231	PRO
1	AO	21	PRO
1	AO	94	PRO
1	AO	152	GLN
1	AO	184	TYR
1	AO	187	LEU
1	AO	213	PHE
1	AO	231	PRO
1	AP	94	PRO
1	AP	152	GLN
1	AP	184	TYR
1	AP	187	LEU
1	AP	213	PHE
1	AP	231	PRO
1	AQ	94	PRO
1	AQ	152	GLN
1	AQ	184	TYR
1	AQ	187	LEU
1	AQ	213	PHE
1	AQ	231	PRO
1	AR	94	PRO
1	AR	152	GLN
1	AR	184	TYR
1	AR	187	LEU
1	AR	213	PHE

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Mol	Chain	Res	Type
1	AR	231	PRO
1	AS	94	PRO
1	AS	152	GLN
1	AS	184	TYR
1	AS	187	LEU
1	AS	213	PHE
1	AS	231	PRO
1	AT	94	PRO
1	AT	152	GLN
1	AT	184	TYR
1	AT	187	LEU
1	AT	213	PHE
1	AT	231	PRO
1	AU	94	PRO
1	AU	152	GLN
1	AU	184	TYR
1	AU	187	LEU
1	AU	213	PHE
1	AU	231	PRO
1	AV	94	PRO
1	AV	152	GLN
1	AV	184	TYR
1	AV	187	LEU
1	AV	213	PHE
1	AV	231	PRO
1	AW	21	PRO
1	AW	94	PRO
1	AW	152	GLN
1	AW	184	TYR
1	AW	187	LEU
1	AW	213	PHE
1	AW	231	PRO
1	AX	94	PRO
1	AX	152	GLN
1	AX	184	TYR
1	AX	187	LEU
1	AX	213	PHE
1	AX	231	PRO
1	AY	21	PRO
1	AY	94	PRO
1	AY	152	GLN
1	AY	184	TYR

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Mol	Chain	Res	Type
1	AY	187	LEU
1	AY	213	PHE
1	AY	231	PRO
1	AZ	21	PRO
1	AZ	94	PRO
1	AZ	152	GLN
1	AZ	184	TYR
1	AZ	187	LEU
1	AZ	213	PHE
1	AZ	231	PRO
1	Aa	94	PRO
1	Aa	152	GLN
1	Aa	184	TYR
1	Aa	187	LEU
1	Aa	213	PHE
1	Aa	231	PRO
1	Ab	94	PRO
1	Ab	152	GLN
1	Ab	184	TYR
1	Ab	187	LEU
1	Ab	213	PHE
1	Ab	231	PRO
1	Ac	21	PRO
1	Ac	94	PRO
1	Ac	152	GLN
1	Ac	184	TYR
1	Ac	187	LEU
1	Ac	213	PHE
1	Ac	231	PRO
1	Ad	94	PRO
1	Ad	152	GLN
1	Ad	184	TYR
1	Ad	187	LEU
1	Ad	213	PHE
1	Ad	231	PRO
1	Ae	21	PRO
1	Ae	94	PRO
1	Ae	152	GLN
1	Ae	184	TYR
1	Ae	187	LEU
1	Ae	213	PHE
1	Ae	231	PRO

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Mol	Chain	Res	Type
1	Af	21	PRO
1	Af	94	PRO
1	Af	152	GLN
1	Af	184	TYR
1	Af	187	LEU
1	Af	213	PHE
1	Af	231	PRO
1	Ag	94	PRO
1	Ag	152	GLN
1	Ag	184	TYR
1	Ag	187	LEU
1	Ag	213	PHE
1	Ag	231	PRO
1	Ah	94	PRO
1	Ah	152	GLN
1	Ah	184	TYR
1	Ah	187	LEU
1	Ah	213	PHE
1	Ah	231	PRO
1	Ai	21	PRO
1	Ai	94	PRO
1	Ai	152	GLN
1	Ai	184	TYR
1	Ai	187	LEU
1	Ai	213	PHE
1	Ai	231	PRO
1	Aj	21	PRO
1	Aj	94	PRO
1	Aj	152	GLN
1	Aj	184	TYR
1	Aj	187	LEU
1	Aj	213	PHE
1	Aj	231	PRO
1	Ak	94	PRO
1	Ak	152	GLN
1	Ak	184	TYR
1	Ak	187	LEU
1	Ak	213	PHE
1	Ak	231	PRO
1	Al	21	PRO
1	Al	94	PRO
1	Al	152	GLN

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Mol	Chain	Res	Type
1	Al	184	TYR
1	Al	187	LEU
1	Al	213	PHE
1	Al	231	PRO
1	Am	21	PRO
1	Am	94	PRO
1	Am	152	GLN
1	Am	184	TYR
1	Am	187	LEU
1	Am	213	PHE
1	Am	231	PRO
1	An	94	PRO
1	An	152	GLN
1	An	184	TYR
1	An	187	LEU
1	An	213	PHE
1	An	231	PRO
1	Ao	94	PRO
1	Ao	152	GLN
1	Ao	184	TYR
1	Ao	187	LEU
1	Ao	213	PHE
1	Ao	231	PRO
1	BA	21	PRO
1	BA	94	PRO
1	BA	152	GLN
1	BA	184	TYR
1	BA	187	LEU
1	BA	213	PHE
1	BA	231	PRO
1	BB	21	PRO
1	BB	94	PRO
1	BB	152	GLN
1	BB	184	TYR
1	BB	187	LEU
1	BB	213	PHE
1	BB	231	PRO
1	BC	94	PRO
1	BC	152	GLN
1	BC	184	TYR
1	BC	187	LEU
1	BC	213	PHE

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Mol	Chain	Res	Type
1	BC	231	PRO
1	BD	94	PRO
1	BD	152	GLN
1	BD	184	TYR
1	BD	187	LEU
1	BD	213	PHE
1	BD	231	PRO
1	BE	94	PRO
1	BE	152	GLN
1	BE	184	TYR
1	BE	187	LEU
1	BE	213	PHE
1	BE	231	PRO
1	BF	94	PRO
1	BF	152	GLN
1	BF	184	TYR
1	BF	187	LEU
1	BF	213	PHE
1	BF	231	PRO
1	BG	94	PRO
1	BG	152	GLN
1	BG	184	TYR
1	BG	187	LEU
1	BG	213	PHE
1	BG	231	PRO
1	BH	94	PRO
1	BH	152	GLN
1	BH	184	TYR
1	BH	187	LEU
1	BH	213	PHE
1	BH	231	PRO
1	BI	21	PRO
1	BI	94	PRO
1	BI	152	GLN
1	BI	184	TYR
1	BI	187	LEU
1	BI	213	PHE
1	BI	231	PRO
2	C0	26	SER
2	C0	89	LYS
2	C0	159	PRO
2	C1	26	SER

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Mol	Chain	Res	Type
2	C1	89	LYS
2	C1	159	PRO
2	C2	26	SER
2	C2	89	LYS
2	C2	159	PRO
2	C3	26	SER
2	C3	159	PRO
2	C4	26	SER
2	C4	89	LYS
2	C4	159	PRO
2	C5	26	SER
2	C5	89	LYS
2	C5	159	PRO
2	C6	26	SER
2	C6	89	LYS
2	C6	159	PRO
2	C7	26	SER
2	C7	89	LYS
2	C7	159	PRO
2	C8	26	SER
2	C8	89	LYS
2	C8	159	PRO
2	C9	26	SER
2	C9	89	LYS
2	C9	159	PRO
2	CA	26	SER
2	CA	89	LYS
2	CA	159	PRO
2	CB	26	SER
2	CB	89	LYS
2	CB	159	PRO
2	CC	26	SER
2	CC	89	LYS
2	CC	159	PRO
2	CD	26	SER
2	CD	89	LYS
2	CD	159	PRO
2	CE	26	SER
2	CE	89	LYS
2	CE	159	PRO
2	CF	26	SER
2	CF	89	LYS

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Mol	Chain	Res	Type
2	CF	159	PRO
2	CG	26	SER
2	CG	89	LYS
2	CG	159	PRO
2	CH	26	SER
2	CH	89	LYS
2	CH	159	PRO
2	CI	26	SER
2	CI	89	LYS
2	CI	159	PRO
2	CJ	26	SER
2	CJ	159	PRO
2	CK	26	SER
2	CK	89	LYS
2	CK	159	PRO
2	CL	26	SER
2	CL	89	LYS
2	CL	159	PRO
2	CM	26	SER
2	CM	89	LYS
2	CM	159	PRO
2	CN	26	SER
2	CN	89	LYS
2	CN	159	PRO
2	CO	26	SER
2	CO	89	LYS
2	CO	159	PRO
2	CP	26	SER
2	CP	89	LYS
2	CP	159	PRO
2	CQ	26	SER
2	CQ	89	LYS
2	CQ	159	PRO
2	CR	26	SER
2	CR	89	LYS
2	CR	159	PRO
2	CS	26	SER
2	CS	89	LYS
2	CS	159	PRO
2	CT	26	SER
2	CT	89	LYS
2	CT	159	PRO

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Mol	Chain	Res	Type
2	CU	26	SER
2	CU	89	LYS
2	CU	159	PRO
2	CV	26	SER
2	CV	89	LYS
2	CV	159	PRO
2	CW	26	SER
2	CW	89	LYS
2	CW	159	PRO
2	CX	26	SER
2	CX	89	LYS
2	CX	159	PRO
2	CY	26	SER
2	CY	89	LYS
2	CY	159	PRO
2	CZ	26	SER
2	CZ	89	LYS
2	CZ	159	PRO
2	Ca	26	SER
2	Ca	89	LYS
2	Ca	159	PRO
2	Cb	26	SER
2	Cb	89	LYS
2	Cb	159	PRO
2	Cc	26	SER
2	Cc	89	LYS
2	Cc	159	PRO
2	Cd	26	SER
2	Cd	89	LYS
2	Cd	159	PRO
2	Ce	26	SER
2	Ce	89	LYS
2	Ce	159	PRO
2	Cf	26	SER
2	Cf	89	LYS
2	Cf	159	PRO
2	Cg	26	SER
2	Cg	89	LYS
2	Cg	159	PRO
2	Ch	26	SER
2	Ch	89	LYS
2	Ch	159	PRO

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Mol	Chain	Res	Type
2	Ci	26	SER
2	Ci	89	LYS
2	Ci	159	PRO
2	Cj	26	SER
2	Cj	89	LYS
2	Cj	159	PRO
2	Ck	26	SER
2	Ck	89	LYS
2	Ck	159	PRO
2	Cl	26	SER
2	Cl	89	LYS
2	Cl	159	PRO
2	Cm	26	SER
2	Cm	89	LYS
2	Cm	159	PRO
2	Cn	26	SER
2	Cn	89	LYS
2	Cn	159	PRO
2	Co	26	SER
2	Co	89	LYS
2	Co	159	PRO
2	Cp	26	SER
2	Cp	89	LYS
2	Cp	159	PRO
2	Cq	26	SER
2	Cq	89	LYS
2	Cq	159	PRO
2	Cr	26	SER
2	Cr	89	LYS
2	Cr	159	PRO
2	Cs	26	SER
2	Cs	89	LYS
2	Cs	159	PRO
2	Ct	26	SER
2	Ct	89	LYS
2	Ct	159	PRO
2	Cu	26	SER
2	Cu	89	LYS
2	Cu	159	PRO
2	Cv	26	SER
2	Cv	89	LYS
2	Cv	159	PRO

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Mol	Chain	Res	Type
2	Cw	26	SER
2	Cw	89	LYS
2	Cw	159	PRO
2	Cx	26	SER
2	Cx	89	LYS
2	Cx	159	PRO
3	D0	60	PRO
3	D0	174	ALA
3	D0	223	PRO
3	D1	60	PRO
3	D1	174	ALA
3	D1	223	PRO
3	D2	60	PRO
3	D2	174	ALA
3	D2	223	PRO
3	D3	60	PRO
3	D3	174	ALA
3	D3	223	PRO
3	D4	60	PRO
3	D4	174	ALA
3	D4	223	PRO
3	D5	60	PRO
3	D5	174	ALA
3	D5	223	PRO
3	D6	60	PRO
3	D6	174	ALA
3	D6	223	PRO
3	D7	60	PRO
3	D7	174	ALA
3	D7	223	PRO
3	D8	60	PRO
3	D8	174	ALA
3	D8	223	PRO
3	D9	60	PRO
3	D9	174	ALA
3	D9	223	PRO
3	DA	60	PRO
3	DA	174	ALA
3	DA	223	PRO
3	DB	60	PRO
3	DB	174	ALA
3	DB	223	PRO

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Mol	Chain	Res	Type
3	DC	60	PRO
3	DC	174	ALA
3	DC	223	PRO
3	DD	60	PRO
3	DD	174	ALA
3	DD	223	PRO
3	DE	60	PRO
3	DE	174	ALA
3	DE	223	PRO
3	DF	60	PRO
3	DF	174	ALA
3	DF	223	PRO
3	DG	60	PRO
3	DG	174	ALA
3	DG	223	PRO
3	DH	60	PRO
3	DH	174	ALA
3	DH	223	PRO
3	DI	60	PRO
3	DI	174	ALA
3	DI	223	PRO
3	DJ	60	PRO
3	DJ	174	ALA
3	DJ	223	PRO
3	DK	60	PRO
3	DK	174	ALA
3	DK	223	PRO
3	DL	60	PRO
3	DL	174	ALA
3	DL	223	PRO
3	DM	60	PRO
3	DM	174	ALA
3	DM	223	PRO
3	DN	60	PRO
3	DN	174	ALA
3	DN	223	PRO
3	DO	60	PRO
3	DO	174	ALA
3	DO	223	PRO
3	DP	60	PRO
3	DP	174	ALA
3	DP	223	PRO

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Mol	Chain	Res	Type
3	DQ	60	PRO
3	DQ	174	ALA
3	DQ	223	PRO
3	DR	60	PRO
3	DR	174	ALA
3	DR	223	PRO
3	DS	60	PRO
3	DS	174	ALA
3	DS	223	PRO
3	DT	60	PRO
3	DT	174	ALA
3	DT	223	PRO
3	DU	60	PRO
3	DU	174	ALA
3	DU	223	PRO
3	DV	60	PRO
3	DV	174	ALA
3	DV	223	PRO
3	DW	60	PRO
3	DW	174	ALA
3	DW	223	PRO
3	DX	60	PRO
3	DX	174	ALA
3	DX	223	PRO
3	DY	60	PRO
3	DY	174	ALA
3	DY	223	PRO
3	DZ	60	PRO
3	DZ	174	ALA
3	DZ	223	PRO
3	Da	60	PRO
3	Da	174	ALA
3	Da	223	PRO
3	Db	60	PRO
3	Db	174	ALA
3	Db	223	PRO
3	Dc	60	PRO
3	Dc	174	ALA
3	Dc	223	PRO
3	Dd	60	PRO
3	Dd	174	ALA
3	Dd	223	PRO

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Mol	Chain	Res	Type
3	De	60	PRO
3	De	174	ALA
3	De	223	PRO
3	Df	60	PRO
3	Df	174	ALA
3	Df	223	PRO
3	Dg	60	PRO
3	Dg	174	ALA
3	Dg	223	PRO
3	Dh	60	PRO
3	Dh	174	ALA
3	Dh	223	PRO
3	Di	60	PRO
3	Di	174	ALA
3	Di	223	PRO
3	Dj	60	PRO
3	Dj	174	ALA
3	Dj	223	PRO
3	Dk	60	PRO
3	Dk	174	ALA
3	Dk	223	PRO
3	Dl	60	PRO
3	Dl	174	ALA
3	Dl	223	PRO
3	Dm	60	PRO
3	Dm	174	ALA
3	Dm	223	PRO
3	Dn	60	PRO
3	Dn	174	ALA
3	Dn	223	PRO
3	Do	60	PRO
3	Do	174	ALA
3	Do	223	PRO
3	Dp	60	PRO
3	Dp	174	ALA
3	Dp	223	PRO
3	Dq	60	PRO
3	Dq	174	ALA
3	Dq	223	PRO
3	Dr	60	PRO
3	Dr	174	ALA
3	Dr	223	PRO

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Mol	Chain	Res	Type
3	Ds	60	PRO
3	Ds	174	ALA
3	Ds	223	PRO
3	EA	60	PRO
3	EA	174	ALA
3	EA	223	PRO
3	EB	60	PRO
3	EB	174	ALA
3	EB	223	PRO
3	EC	60	PRO
3	EC	174	ALA
3	EC	223	PRO
3	ED	60	PRO
3	ED	174	ALA
3	ED	223	PRO
3	EE	60	PRO
3	EE	174	ALA
3	EE	223	PRO
4	F0	29	GLN
4	F1	29	GLN
4	F2	29	GLN
4	F3	29	GLN
4	F4	29	GLN
4	F5	29	GLN
4	F6	29	GLN
4	F7	29	GLN
4	F8	29	GLN
4	F9	29	GLN
4	FA	29	GLN
4	FB	29	GLN
4	FC	29	GLN
4	FD	29	GLN
4	FE	29	GLN
4	FF	29	GLN
4	FG	29	GLN
4	FH	29	GLN
4	FI	29	GLN
4	FJ	29	GLN
4	FK	29	GLN
4	FL	29	GLN
4	FM	29	GLN
4	FN	29	GLN

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Mol	Chain	Res	Type
4	FO	29	GLN
4	FP	29	GLN
4	FQ	29	GLN
4	FR	29	GLN
4	FS	29	GLN
4	FT	29	GLN
4	FU	29	GLN
4	FV	29	GLN
4	FW	29	GLN
4	FX	29	GLN
4	FY	29	GLN
4	FZ	29	GLN
4	Fa	29	GLN
4	Fb	29	GLN
4	Fc	29	GLN
4	Fd	29	GLN
4	Fe	29	GLN
4	Ff	29	GLN
4	Fg	29	GLN
4	Fh	29	GLN
4	Fi	29	GLN
4	Fj	29	GLN
4	Fk	29	GLN
4	Fl	29	GLN
4	Fm	29	GLN
4	Fn	29	GLN
4	Fo	29	GLN
4	Fp	29	GLN
4	Fq	29	GLN
4	Fr	29	GLN
4	Fs	29	GLN
4	Ft	29	GLN
4	Fu	29	GLN
4	Fv	29	GLN
4	Fw	29	GLN
4	Fx	29	GLN
1	A0	9	GLU
1	A0	65	GLN
1	A1	9	GLU
1	A1	65	GLN
1	A2	9	GLU
1	A2	65	GLN

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Mol	Chain	Res	Type
1	A3	9	GLU
1	A3	65	GLN
1	A4	9	GLU
1	A4	65	GLN
1	A5	9	GLU
1	A5	65	GLN
1	A6	9	GLU
1	A6	65	GLN
1	A7	9	GLU
1	A7	65	GLN
1	A8	9	GLU
1	A8	65	GLN
1	A9	9	GLU
1	A9	65	GLN
1	AA	9	GLU
1	AA	65	GLN
1	AB	9	GLU
1	AB	65	GLN
1	AC	9	GLU
1	AC	65	GLN
1	AD	9	GLU
1	AD	65	GLN
1	AE	9	GLU
1	AE	65	GLN
1	AF	9	GLU
1	AF	65	GLN
1	AG	9	GLU
1	AG	65	GLN
1	AH	9	GLU
1	AH	65	GLN
1	AI	9	GLU
1	AI	65	GLN
1	AJ	9	GLU
1	AK	9	GLU
1	AK	65	GLN
1	AL	9	GLU
1	AL	65	GLN
1	AM	9	GLU
1	AM	65	GLN
1	AN	9	GLU
1	AN	65	GLN
1	AO	9	GLU

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Mol	Chain	Res	Type
1	AO	65	GLN
1	AP	9	GLU
1	AP	65	GLN
1	AQ	9	GLU
1	AQ	65	GLN
1	AR	9	GLU
1	AR	65	GLN
1	AS	9	GLU
1	AS	65	GLN
1	AT	9	GLU
1	AT	65	GLN
1	AU	9	GLU
1	AU	65	GLN
1	AV	9	GLU
1	AV	65	GLN
1	AW	9	GLU
1	AW	65	GLN
1	AX	9	GLU
1	AX	65	GLN
1	AY	9	GLU
1	AY	65	GLN
1	AZ	9	GLU
1	AZ	65	GLN
1	Aa	9	GLU
1	Aa	65	GLN
1	Ab	9	GLU
1	Ab	65	GLN
1	Ac	9	GLU
1	Ac	65	GLN
1	Ad	9	GLU
1	Ad	65	GLN
1	Ae	9	GLU
1	Ae	65	GLN
1	Af	9	GLU
1	Af	65	GLN
1	Ag	9	GLU
1	Ag	65	GLN
1	Ah	9	GLU
1	Ah	65	GLN
1	Ai	9	GLU
1	Ai	65	GLN
1	Aj	9	GLU

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Mol	Chain	Res	Type
1	Aj	65	GLN
1	Ak	9	GLU
1	Ak	65	GLN
1	Al	9	GLU
1	Al	65	GLN
1	Am	9	GLU
1	Am	65	GLN
1	An	9	GLU
1	An	65	GLN
1	Ao	9	GLU
1	BA	9	GLU
1	BA	65	GLN
1	BB	9	GLU
1	BB	65	GLN
1	BC	9	GLU
1	BC	65	GLN
1	BD	9	GLU
1	BD	65	GLN
1	BE	9	GLU
1	BE	65	GLN
1	BF	9	GLU
1	BF	65	GLN
1	BG	9	GLU
1	BG	65	GLN
1	BH	9	GLU
1	BH	65	GLN
1	BI	9	GLU
1	BI	65	GLN
2	C0	58	LEU
2	C0	86	ASP
2	C0	149	ALA
2	C1	58	LEU
2	C1	86	ASP
2	C1	149	ALA
2	C2	58	LEU
2	C2	86	ASP
2	C2	149	ALA
2	C3	58	LEU
2	C3	86	ASP
2	C3	89	LYS
2	C3	149	ALA
2	C4	58	LEU

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Mol	Chain	Res	Type
2	C4	86	ASP
2	C4	149	ALA
2	C5	58	LEU
2	C5	86	ASP
2	C5	149	ALA
2	C6	58	LEU
2	C6	86	ASP
2	C6	149	ALA
2	C7	58	LEU
2	C7	86	ASP
2	C7	149	ALA
2	C8	58	LEU
2	C8	86	ASP
2	C8	149	ALA
2	C9	58	LEU
2	C9	86	ASP
2	C9	149	ALA
2	CA	58	LEU
2	CA	86	ASP
2	CA	149	ALA
2	CB	58	LEU
2	CB	86	ASP
2	CB	149	ALA
2	CC	58	LEU
2	CC	86	ASP
2	CC	149	ALA
2	CD	58	LEU
2	CD	86	ASP
2	CD	149	ALA
2	CE	58	LEU
2	CE	86	ASP
2	CE	149	ALA
2	CF	58	LEU
2	CF	86	ASP
2	CF	149	ALA
2	CG	58	LEU
2	CG	86	ASP
2	CG	149	ALA
2	CH	58	LEU
2	CH	86	ASP
2	CH	149	ALA
2	CI	58	LEU

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Mol	Chain	Res	Type
2	CI	86	ASP
2	CI	149	ALA
2	CJ	58	LEU
2	CJ	86	ASP
2	CJ	89	LYS
2	CJ	149	ALA
2	CK	58	LEU
2	CK	86	ASP
2	CK	149	ALA
2	CL	58	LEU
2	CL	86	ASP
2	CL	149	ALA
2	CM	58	LEU
2	CM	86	ASP
2	CM	149	ALA
2	CN	58	LEU
2	CN	86	ASP
2	CN	149	ALA
2	CO	58	LEU
2	CO	86	ASP
2	CO	149	ALA
2	CP	58	LEU
2	CP	86	ASP
2	CP	149	ALA
2	CQ	58	LEU
2	CQ	86	ASP
2	CQ	149	ALA
2	CR	58	LEU
2	CR	86	ASP
2	CR	149	ALA
2	CS	58	LEU
2	CS	86	ASP
2	CS	149	ALA
2	CT	58	LEU
2	CT	86	ASP
2	CT	149	ALA
2	CU	58	LEU
2	CU	86	ASP
2	CU	149	ALA
2	CV	58	LEU
2	CV	86	ASP
2	CV	149	ALA

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Mol	Chain	Res	Type
2	CW	58	LEU
2	CW	86	ASP
2	CW	149	ALA
2	CX	58	LEU
2	CX	86	ASP
2	CX	149	ALA
2	CY	58	LEU
2	CY	86	ASP
2	CY	149	ALA
2	CZ	58	LEU
2	CZ	86	ASP
2	CZ	149	ALA
2	Ca	58	LEU
2	Ca	86	ASP
2	Ca	149	ALA
2	Cb	58	LEU
2	Cb	86	ASP
2	Cb	149	ALA
2	Cc	58	LEU
2	Cc	86	ASP
2	Cc	149	ALA
2	Cd	58	LEU
2	Cd	86	ASP
2	Cd	149	ALA
2	Ce	58	LEU
2	Ce	86	ASP
2	Ce	149	ALA
2	Cf	58	LEU
2	Cf	86	ASP
2	Cf	149	ALA
2	Cg	58	LEU
2	Cg	86	ASP
2	Cg	149	ALA
2	Ch	58	LEU
2	Ch	86	ASP
2	Ch	149	ALA
2	Ci	58	LEU
2	Ci	86	ASP
2	Ci	149	ALA
2	Cj	58	LEU
2	Cj	86	ASP
2	Cj	149	ALA

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Mol	Chain	Res	Type
2	Ck	58	LEU
2	Ck	86	ASP
2	Ck	149	ALA
2	Cl	58	LEU
2	Cl	86	ASP
2	Cl	149	ALA
2	Cm	58	LEU
2	Cm	86	ASP
2	Cm	149	ALA
2	Cn	58	LEU
2	Cn	86	ASP
2	Cn	149	ALA
2	Co	58	LEU
2	Co	86	ASP
2	Co	149	ALA
2	Cp	58	LEU
2	Cp	86	ASP
2	Cp	149	ALA
2	Cq	58	LEU
2	Cq	86	ASP
2	Cq	149	ALA
2	Cr	58	LEU
2	Cr	86	ASP
2	Cr	149	ALA
2	Cs	58	LEU
2	Cs	86	ASP
2	Cs	149	ALA
2	Ct	58	LEU
2	Ct	86	ASP
2	Ct	149	ALA
2	Cu	58	LEU
2	Cu	86	ASP
2	Cu	149	ALA
2	Cv	58	LEU
2	Cv	86	ASP
2	Cv	149	ALA
2	Cw	58	LEU
2	Cw	86	ASP
2	Cw	149	ALA
2	Cx	58	LEU
2	Cx	86	ASP
2	Cx	149	ALA

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Mol	Chain	Res	Type
3	D0	11	SER
3	D0	200	SER
3	D0	218	HIS
3	D1	11	SER
3	D1	200	SER
3	D1	218	HIS
3	D2	11	SER
3	D2	200	SER
3	D2	218	HIS
3	D3	11	SER
3	D3	200	SER
3	D3	218	HIS
3	D4	11	SER
3	D4	200	SER
3	D4	218	HIS
3	D5	11	SER
3	D5	200	SER
3	D5	218	HIS
3	D6	11	SER
3	D6	200	SER
3	D6	218	HIS
3	D7	11	SER
3	D7	200	SER
3	D7	218	HIS
3	D8	11	SER
3	D8	200	SER
3	D8	218	HIS
3	D9	11	SER
3	D9	200	SER
3	D9	218	HIS
3	DA	11	SER
3	DA	200	SER
3	DA	218	HIS
3	DB	11	SER
3	DB	200	SER
3	DB	218	HIS
3	DC	11	SER
3	DC	200	SER
3	DC	218	HIS
3	DD	11	SER
3	DD	200	SER
3	DD	218	HIS

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Mol	Chain	Res	Type
3	DE	11	SER
3	DE	200	SER
3	DE	218	HIS
3	DF	11	SER
3	DF	200	SER
3	DF	218	HIS
3	DG	11	SER
3	DG	200	SER
3	DG	218	HIS
3	DH	11	SER
3	DH	200	SER
3	DH	218	HIS
3	DI	11	SER
3	DI	200	SER
3	DI	218	HIS
3	DJ	11	SER
3	DJ	200	SER
3	DJ	218	HIS
3	DK	11	SER
3	DK	200	SER
3	DK	218	HIS
3	DL	11	SER
3	DL	200	SER
3	DL	218	HIS
3	DM	11	SER
3	DM	200	SER
3	DM	218	HIS
3	DN	11	SER
3	DN	200	SER
3	DN	218	HIS
3	DO	11	SER
3	DO	200	SER
3	DO	218	HIS
3	DP	11	SER
3	DP	200	SER
3	DP	218	HIS
3	DQ	11	SER
3	DQ	200	SER
3	DQ	218	HIS
3	DR	11	SER
3	DR	200	SER
3	DR	218	HIS

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Mol	Chain	Res	Type
3	DS	11	SER
3	DS	200	SER
3	DS	218	HIS
3	DT	11	SER
3	DT	200	SER
3	DT	218	HIS
3	DU	11	SER
3	DU	200	SER
3	DU	218	HIS
3	DV	11	SER
3	DV	200	SER
3	DV	218	HIS
3	DW	11	SER
3	DW	200	SER
3	DW	218	HIS
3	DX	11	SER
3	DX	200	SER
3	DX	218	HIS
3	DY	11	SER
3	DY	200	SER
3	DY	218	HIS
3	DZ	11	SER
3	DZ	200	SER
3	DZ	218	HIS
3	Da	11	SER
3	Da	200	SER
3	Da	218	HIS
3	Db	11	SER
3	Db	200	SER
3	Db	218	HIS
3	Dc	11	SER
3	Dc	200	SER
3	Dc	218	HIS
3	Dd	11	SER
3	Dd	200	SER
3	Dd	218	HIS
3	De	11	SER
3	De	200	SER
3	De	218	HIS
3	Df	11	SER
3	Df	200	SER
3	Df	218	HIS

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Mol	Chain	Res	Type
3	Dg	11	SER
3	Dg	200	SER
3	Dg	218	HIS
3	Dh	11	SER
3	Dh	200	SER
3	Dh	218	HIS
3	Di	11	SER
3	Di	200	SER
3	Di	218	HIS
3	Dj	11	SER
3	Dj	200	SER
3	Dj	218	HIS
3	Dk	11	SER
3	Dk	200	SER
3	Dk	218	HIS
3	Dl	11	SER
3	Dl	200	SER
3	Dl	218	HIS
3	Dm	11	SER
3	Dm	200	SER
3	Dm	218	HIS
3	Dn	11	SER
3	Dn	200	SER
3	Dn	218	HIS
3	Do	11	SER
3	Do	200	SER
3	Do	218	HIS
3	Dp	11	SER
3	Dp	200	SER
3	Dp	218	HIS
3	Dq	11	SER
3	Dq	200	SER
3	Dq	218	HIS
3	Dr	11	SER
3	Dr	200	SER
3	Dr	218	HIS
3	Ds	11	SER
3	Ds	200	SER
3	Ds	218	HIS
3	EA	11	SER
3	EA	200	SER
3	EA	218	HIS

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Mol	Chain	Res	Type
3	EB	11	SER
3	EB	200	SER
3	EB	218	HIS
3	EC	11	SER
3	EC	200	SER
3	EC	218	HIS
3	ED	11	SER
3	ED	200	SER
3	ED	218	HIS
3	EE	11	SER
3	EE	200	SER
3	EE	218	HIS
1	A0	8	GLY
1	A0	14	GLU
1	A0	19	LEU
1	A0	112	PRO
1	A1	8	GLY
1	A1	14	GLU
1	A1	19	LEU
1	A1	112	PRO
1	A2	8	GLY
1	A2	14	GLU
1	A2	19	LEU
1	A2	112	PRO
1	A3	8	GLY
1	A3	14	GLU
1	A3	19	LEU
1	A3	112	PRO
1	A4	8	GLY
1	A4	14	GLU
1	A4	19	LEU
1	A4	112	PRO
1	A5	8	GLY
1	A5	14	GLU
1	A5	19	LEU
1	A5	112	PRO
1	A6	8	GLY
1	A6	14	GLU
1	A6	19	LEU
1	A6	112	PRO
1	A7	8	GLY
1	A7	14	GLU

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Mol	Chain	Res	Type
1	A7	19	LEU
1	A7	112	PRO
1	A8	8	GLY
1	A8	14	GLU
1	A8	19	LEU
1	A8	112	PRO
1	A9	8	GLY
1	A9	14	GLU
1	A9	19	LEU
1	A9	112	PRO
1	AA	8	GLY
1	AA	14	GLU
1	AA	19	LEU
1	AA	112	PRO
1	AB	8	GLY
1	AB	14	GLU
1	AB	19	LEU
1	AB	112	PRO
1	AC	8	GLY
1	AC	14	GLU
1	AC	19	LEU
1	AC	112	PRO
1	AD	8	GLY
1	AD	14	GLU
1	AD	19	LEU
1	AD	112	PRO
1	AE	8	GLY
1	AE	14	GLU
1	AE	19	LEU
1	AE	112	PRO
1	AF	8	GLY
1	AF	14	GLU
1	AF	19	LEU
1	AF	112	PRO
1	AG	8	GLY
1	AG	14	GLU
1	AG	19	LEU
1	AG	112	PRO
1	AH	8	GLY
1	AH	14	GLU
1	AH	19	LEU
1	AH	112	PRO

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Mol	Chain	Res	Type
1	AI	8	GLY
1	AI	14	GLU
1	AI	19	LEU
1	AI	112	PRO
1	AJ	8	GLY
1	AJ	14	GLU
1	AJ	19	LEU
1	AJ	65	GLN
1	AJ	112	PRO
1	AK	8	GLY
1	AK	14	GLU
1	AK	19	LEU
1	AK	112	PRO
1	AL	8	GLY
1	AL	14	GLU
1	AL	19	LEU
1	AL	112	PRO
1	AM	8	GLY
1	AM	14	GLU
1	AM	19	LEU
1	AM	112	PRO
1	AN	8	GLY
1	AN	14	GLU
1	AN	19	LEU
1	AN	112	PRO
1	AO	8	GLY
1	AO	14	GLU
1	AO	19	LEU
1	AO	112	PRO
1	AP	8	GLY
1	AP	14	GLU
1	AP	19	LEU
1	AP	112	PRO
1	AQ	8	GLY
1	AQ	14	GLU
1	AQ	19	LEU
1	AQ	112	PRO
1	AR	8	GLY
1	AR	14	GLU
1	AR	19	LEU
1	AR	112	PRO
1	AS	8	GLY

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Mol	Chain	Res	Type
1	AS	14	GLU
1	AS	19	LEU
1	AS	112	PRO
1	AT	8	GLY
1	AT	14	GLU
1	AT	19	LEU
1	AT	112	PRO
1	AU	8	GLY
1	AU	14	GLU
1	AU	19	LEU
1	AU	112	PRO
1	AV	8	GLY
1	AV	14	GLU
1	AV	19	LEU
1	AV	112	PRO
1	AW	8	GLY
1	AW	14	GLU
1	AW	19	LEU
1	AW	112	PRO
1	AX	8	GLY
1	AX	14	GLU
1	AX	19	LEU
1	AX	112	PRO
1	AY	8	GLY
1	AY	14	GLU
1	AY	19	LEU
1	AY	112	PRO
1	AZ	8	GLY
1	AZ	14	GLU
1	AZ	19	LEU
1	AZ	112	PRO
1	Aa	8	GLY
1	Aa	14	GLU
1	Aa	19	LEU
1	Aa	112	PRO
1	Ab	8	GLY
1	Ab	14	GLU
1	Ab	19	LEU
1	Ab	112	PRO
1	Ac	8	GLY
1	Ac	14	GLU
1	Ac	19	LEU

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Mol	Chain	Res	Type
1	Ac	112	PRO
1	Ad	8	GLY
1	Ad	14	GLU
1	Ad	19	LEU
1	Ad	112	PRO
1	Ae	8	GLY
1	Ae	14	GLU
1	Ae	19	LEU
1	Ae	112	PRO
1	Af	8	GLY
1	Af	14	GLU
1	Af	19	LEU
1	Af	112	PRO
1	Ag	8	GLY
1	Ag	14	GLU
1	Ag	19	LEU
1	Ag	112	PRO
1	Ah	8	GLY
1	Ah	14	GLU
1	Ah	19	LEU
1	Ah	112	PRO
1	Ai	8	GLY
1	Ai	14	GLU
1	Ai	19	LEU
1	Ai	112	PRO
1	Aj	8	GLY
1	Aj	14	GLU
1	Aj	19	LEU
1	Aj	112	PRO
1	Ak	8	GLY
1	Ak	14	GLU
1	Ak	19	LEU
1	Ak	112	PRO
1	Al	8	GLY
1	Al	14	GLU
1	Al	19	LEU
1	Al	112	PRO
1	Am	8	GLY
1	Am	14	GLU
1	Am	19	LEU
1	Am	112	PRO
1	An	8	GLY

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Mol	Chain	Res	Type
1	An	14	GLU
1	An	19	LEU
1	An	112	PRO
1	Ao	8	GLY
1	Ao	14	GLU
1	Ao	19	LEU
1	Ao	65	GLN
1	Ao	112	PRO
1	BA	8	GLY
1	BA	14	GLU
1	BA	19	LEU
1	BA	112	PRO
1	BB	8	GLY
1	BB	14	GLU
1	BB	19	LEU
1	BB	112	PRO
1	BC	8	GLY
1	BC	14	GLU
1	BC	19	LEU
1	BC	112	PRO
1	BD	8	GLY
1	BD	14	GLU
1	BD	19	LEU
1	BD	112	PRO
1	BE	8	GLY
1	BE	14	GLU
1	BE	19	LEU
1	BE	112	PRO
1	BF	8	GLY
1	BF	14	GLU
1	BF	19	LEU
1	BF	112	PRO
1	BG	8	GLY
1	BG	14	GLU
1	BG	19	LEU
1	BG	112	PRO
1	BH	8	GLY
1	BH	14	GLU
1	BH	19	LEU
1	BH	112	PRO
1	BI	8	GLY
1	BI	14	GLU

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Mol	Chain	Res	Type
1	BI	19	LEU
1	BI	112	PRO
3	D0	61	TYR
3	D0	131	ALA
3	D1	61	TYR
3	D1	131	ALA
3	D2	61	TYR
3	D2	131	ALA
3	D3	61	TYR
3	D3	131	ALA
3	D4	61	TYR
3	D4	131	ALA
3	D5	61	TYR
3	D5	131	ALA
3	D6	61	TYR
3	D6	131	ALA
3	D7	61	TYR
3	D7	131	ALA
3	D8	61	TYR
3	D8	131	ALA
3	D9	61	TYR
3	D9	131	ALA
3	DA	61	TYR
3	DA	131	ALA
3	DB	131	ALA
3	DC	61	TYR
3	DC	131	ALA
3	DD	61	TYR
3	DD	131	ALA
3	DE	61	TYR
3	DE	131	ALA
3	DF	61	TYR
3	DF	131	ALA
3	DG	61	TYR
3	DG	131	ALA
3	DH	61	TYR
3	DH	131	ALA
3	DI	61	TYR
3	DI	131	ALA
3	DJ	61	TYR
3	DJ	131	ALA
3	DK	61	TYR

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Mol	Chain	Res	Type
3	DK	131	ALA
3	DL	61	TYR
3	DL	131	ALA
3	DM	61	TYR
3	DM	131	ALA
3	DN	61	TYR
3	DN	131	ALA
3	DO	131	ALA
3	DP	61	TYR
3	DP	131	ALA
3	DQ	61	TYR
3	DQ	131	ALA
3	DR	61	TYR
3	DR	131	ALA
3	DS	61	TYR
3	DS	131	ALA
3	DT	61	TYR
3	DT	131	ALA
3	DU	61	TYR
3	DU	131	ALA
3	DV	61	TYR
3	DV	131	ALA
3	DW	61	TYR
3	DW	131	ALA
3	DX	61	TYR
3	DX	131	ALA
3	DY	61	TYR
3	DY	131	ALA
3	DZ	61	TYR
3	DZ	131	ALA
3	Da	61	TYR
3	Da	131	ALA
3	Db	61	TYR
3	Db	131	ALA
3	Dc	61	TYR
3	Dc	131	ALA
3	Dd	61	TYR
3	Dd	131	ALA
3	De	61	TYR
3	De	131	ALA
3	Df	61	TYR
3	Df	131	ALA

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Mol	Chain	Res	Type
3	Dg	61	TYR
3	Dg	131	ALA
3	Dh	61	TYR
3	Dh	131	ALA
3	Di	61	TYR
3	Di	131	ALA
3	Dj	61	TYR
3	Dj	131	ALA
3	Dk	61	TYR
3	Dk	131	ALA
3	Dl	61	TYR
3	Dl	131	ALA
3	Dm	61	TYR
3	Dm	131	ALA
3	Dn	61	TYR
3	Dn	131	ALA
3	Do	61	TYR
3	Do	131	ALA
3	Dp	61	TYR
3	Dp	131	ALA
3	Dq	61	TYR
3	Dq	131	ALA
3	Dr	61	TYR
3	Dr	131	ALA
3	Ds	61	TYR
3	Ds	131	ALA
3	EA	61	TYR
3	EA	131	ALA
3	EB	61	TYR
3	EB	131	ALA
3	EC	61	TYR
3	EC	131	ALA
3	ED	61	TYR
3	ED	131	ALA
3	EE	61	TYR
3	EE	131	ALA
1	A0	188	PRO
1	A0	221	PRO
1	A1	188	PRO
1	A1	221	PRO
1	A2	188	PRO
1	A2	221	PRO

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Mol	Chain	Res	Type
1	A3	188	PRO
1	A3	221	PRO
1	A4	188	PRO
1	A4	221	PRO
1	A5	188	PRO
1	A5	221	PRO
1	A6	188	PRO
1	A6	221	PRO
1	A7	188	PRO
1	A7	221	PRO
1	A8	188	PRO
1	A8	221	PRO
1	A9	188	PRO
1	A9	221	PRO
1	AA	188	PRO
1	AA	221	PRO
1	AB	188	PRO
1	AB	221	PRO
1	AC	188	PRO
1	AC	221	PRO
1	AD	188	PRO
1	AD	221	PRO
1	AE	188	PRO
1	AF	188	PRO
1	AF	221	PRO
1	AG	188	PRO
1	AG	221	PRO
1	AH	188	PRO
1	AH	221	PRO
1	AI	188	PRO
1	AI	221	PRO
1	AJ	188	PRO
1	AJ	221	PRO
1	AK	188	PRO
1	AK	221	PRO
1	AL	188	PRO
1	AL	221	PRO
1	AM	188	PRO
1	AM	221	PRO
1	AN	188	PRO
1	AN	221	PRO
1	AO	188	PRO

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Mol	Chain	Res	Type
1	AO	221	PRO
1	AP	188	PRO
1	AP	221	PRO
1	AQ	188	PRO
1	AQ	221	PRO
1	AR	188	PRO
1	AR	221	PRO
1	AS	188	PRO
1	AS	221	PRO
1	AT	188	PRO
1	AT	221	PRO
1	AU	188	PRO
1	AU	221	PRO
1	AV	188	PRO
1	AV	221	PRO
1	AW	188	PRO
1	AX	188	PRO
1	AX	221	PRO
1	AY	188	PRO
1	AY	221	PRO
1	AZ	188	PRO
1	AZ	221	PRO
1	Aa	188	PRO
1	Aa	221	PRO
1	Ab	188	PRO
1	Ab	221	PRO
1	Ac	188	PRO
1	Ac	221	PRO
1	Ad	188	PRO
1	Ad	221	PRO
1	Ae	188	PRO
1	Ae	221	PRO
1	Af	188	PRO
1	Af	221	PRO
1	Ag	188	PRO
1	Ag	221	PRO
1	Ah	188	PRO
1	Ah	221	PRO
1	Ai	188	PRO
1	Ai	221	PRO
1	Aj	188	PRO
1	Aj	221	PRO

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Mol	Chain	Res	Type
1	Ak	188	PRO
1	Ak	221	PRO
1	Al	188	PRO
1	Am	188	PRO
1	Am	221	PRO
1	An	188	PRO
1	An	221	PRO
1	Ao	188	PRO
1	Ao	221	PRO
1	BA	188	PRO
1	BA	221	PRO
1	BB	188	PRO
1	BB	221	PRO
1	BC	188	PRO
1	BC	221	PRO
1	BD	188	PRO
1	BD	221	PRO
1	BE	188	PRO
1	BE	221	PRO
1	BF	188	PRO
1	BF	221	PRO
1	BG	188	PRO
1	BG	221	PRO
1	BH	188	PRO
1	BH	221	PRO
1	BI	188	PRO
1	BI	221	PRO
2	CF	196	ILE
2	CI	196	ILE
2	CU	196	ILE
2	Ce	196	ILE
3	DB	61	TYR
3	DO	61	TYR
1	AE	221	PRO
1	AW	221	PRO
1	Al	221	PRO
2	C0	196	ILE
2	C1	196	ILE
2	C2	196	ILE
2	C3	196	ILE
2	C4	196	ILE
2	C5	196	ILE

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Mol	Chain	Res	Type
2	C6	196	ILE
2	C7	196	ILE
2	C8	196	ILE
2	C9	196	ILE
2	CA	196	ILE
2	CB	196	ILE
2	CC	196	ILE
2	CD	196	ILE
2	CE	196	ILE
2	CG	196	ILE
2	CH	196	ILE
2	CJ	196	ILE
2	CK	196	ILE
2	CL	196	ILE
2	CM	196	ILE
2	CN	196	ILE
2	CO	196	ILE
2	CP	196	ILE
2	CQ	196	ILE
2	CR	196	ILE
2	CS	196	ILE
2	CT	196	ILE
2	CV	196	ILE
2	CW	196	ILE
2	CX	196	ILE
2	CY	196	ILE
2	CZ	196	ILE
2	Ca	196	ILE
2	Cb	196	ILE
2	Cc	196	ILE
2	Cd	196	ILE
2	Cf	196	ILE
2	Cg	196	ILE
2	Ch	196	ILE
2	Ci	196	ILE
2	Cj	196	ILE
2	Ck	196	ILE
2	Cl	196	ILE
2	Cm	196	ILE
2	Cn	196	ILE
2	Co	196	ILE
2	Cp	196	ILE

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Mol	Chain	Res	Type
2	Cq	196	ILE
2	Cr	196	ILE
2	Cs	196	ILE
2	Ct	196	ILE
2	Cu	196	ILE
2	Cv	196	ILE
2	Cw	196	ILE
2	Cx	196	ILE
4	F0	21	ILE
4	F1	21	ILE
4	F2	21	ILE
4	F3	21	ILE
4	F4	21	ILE
4	F5	21	ILE
4	F6	21	ILE
4	F7	21	ILE
4	F8	21	ILE
4	F9	21	ILE
4	FA	21	ILE
4	FB	21	ILE
4	FC	21	ILE
4	FD	21	ILE
4	FE	21	ILE
4	FF	21	ILE
4	FG	21	ILE
4	FH	21	ILE
4	FI	21	ILE
4	FJ	21	ILE
4	FK	21	ILE
4	FL	21	ILE
4	FM	21	ILE
4	FN	21	ILE
4	FO	21	ILE
4	FP	21	ILE
4	FQ	21	ILE
4	FR	21	ILE
4	FS	21	ILE
4	FT	21	ILE
4	FU	21	ILE
4	FV	21	ILE
4	FW	21	ILE
4	FX	21	ILE

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Mol	Chain	Res	Type
4	FY	21	ILE
4	FZ	21	ILE
4	Fa	21	ILE
4	Fb	21	ILE
4	Fc	21	ILE
4	Fd	21	ILE
4	Fe	21	ILE
4	Ff	21	ILE
4	Fg	21	ILE
4	Fh	21	ILE
4	Fi	21	ILE
4	Fj	21	ILE
4	Fk	21	ILE
4	Fl	21	ILE
4	Fm	21	ILE
4	Fn	21	ILE
4	Fo	21	ILE
4	Fp	21	ILE
4	Fq	21	ILE
4	Fr	21	ILE
4	Fs	21	ILE
4	Ft	21	ILE
4	Fu	21	ILE
4	Fv	21	ILE
4	Fw	21	ILE
4	Fx	21	ILE
1	A9	30	VAL
1	AB	30	VAL
1	AC	30	VAL
1	AN	30	VAL
1	AT	30	VAL
1	AY	30	VAL
1	Aa	30	VAL
1	Ac	30	VAL
1	Ah	30	VAL
1	Aj	30	VAL
1	BB	30	VAL
1	BC	30	VAL
1	BG	30	VAL
1	A0	30	VAL
1	A1	30	VAL
1	A2	30	VAL

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Mol	Chain	Res	Type
1	A3	30	VAL
1	A4	30	VAL
1	A5	30	VAL
1	A6	30	VAL
1	A7	30	VAL
1	A8	30	VAL
1	AA	30	VAL
1	AD	30	VAL
1	AE	30	VAL
1	AF	30	VAL
1	AG	30	VAL
1	AH	30	VAL
1	AI	30	VAL
1	AJ	30	VAL
1	AK	30	VAL
1	AL	30	VAL
1	AM	30	VAL
1	AO	30	VAL
1	AP	30	VAL
1	AQ	30	VAL
1	AR	30	VAL
1	AS	30	VAL
1	AU	30	VAL
1	AV	30	VAL
1	AW	30	VAL
1	AX	30	VAL
1	AZ	30	VAL
1	Ab	30	VAL
1	Ad	30	VAL
1	Ae	30	VAL
1	Af	30	VAL
1	Ag	30	VAL
1	Ai	30	VAL
1	Ak	30	VAL
1	Al	30	VAL
1	Am	30	VAL
1	An	30	VAL
1	Ao	30	VAL
1	BA	30	VAL
1	BD	30	VAL
1	BE	30	VAL
1	BF	30	VAL

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Mol	Chain	Res	Type
1	BH	30	VAL
1	BI	30	VAL
2	C0	84	PRO
2	C1	84	PRO
2	C2	84	PRO
2	C3	84	PRO
2	C4	84	PRO
2	C5	84	PRO
2	C6	84	PRO
2	C7	84	PRO
2	C8	84	PRO
2	C9	84	PRO
2	CA	84	PRO
2	CB	84	PRO
2	CC	84	PRO
2	CD	84	PRO
2	CE	84	PRO
2	CF	84	PRO
2	CG	84	PRO
2	CH	84	PRO
2	CI	84	PRO
2	CJ	84	PRO
2	CK	84	PRO
2	CL	84	PRO
2	CM	84	PRO
2	CN	84	PRO
2	CO	84	PRO
2	CP	84	PRO
2	CQ	84	PRO
2	CR	84	PRO
2	CS	84	PRO
2	CT	84	PRO
2	CU	84	PRO
2	CV	84	PRO
2	CW	84	PRO
2	CX	84	PRO
2	CY	84	PRO
2	CZ	84	PRO
2	Ca	84	PRO
2	Cb	84	PRO
2	Cc	84	PRO
2	Cd	84	PRO

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Mol	Chain	Res	Type
2	Ce	84	PRO
2	Cf	84	PRO
2	Cg	84	PRO
2	Ch	84	PRO
2	Ci	84	PRO
2	Cj	84	PRO
2	Ck	84	PRO
2	Cl	84	PRO
2	Cm	84	PRO
2	Cn	84	PRO
2	Co	84	PRO
2	Cp	84	PRO
2	Cq	84	PRO
2	Cr	84	PRO
2	Cs	84	PRO
2	Ct	84	PRO
2	Cu	84	PRO
2	Cv	84	PRO
2	Cw	84	PRO
2	Cx	84	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%)	170 (82%)	38 (18%)	2	8
1	A1	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	A2	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	A3	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	A4	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	A5	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	A6	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	A7	208/208 (100%)	170 (82%)	38 (18%)	2	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A8	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	A9	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AA	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AB	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AC	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AD	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AE	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AF	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AG	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AH	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AI	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AJ	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AK	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AL	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AM	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AN	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AO	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AP	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AQ	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AR	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AS	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AT	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AU	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AV	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AW	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AX	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AY	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	AZ	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Aa	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Ab	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Ac	208/208 (100%)	170 (82%)	38 (18%)	2	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Ad	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Ae	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Af	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Ag	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Ah	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Ai	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Aj	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Ak	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Al	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Am	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	An	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	Ao	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	BA	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	BB	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	BC	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	BD	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	BE	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	BF	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	BG	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	BH	208/208 (100%)	170 (82%)	38 (18%)	2	8
1	BI	208/208 (100%)	170 (82%)	38 (18%)	2	8
2	C0	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	C1	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	C2	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	C3	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	C4	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	C5	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	C6	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	C7	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	C8	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	C9	175/204 (86%)	131 (75%)	44 (25%)	0	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	CA	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CB	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CC	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CD	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CE	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CF	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CG	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CH	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CI	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CJ	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CK	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CL	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CM	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CN	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CO	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CP	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CQ	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CR	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CS	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CT	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CU	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CV	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CW	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CX	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CY	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	CZ	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Ca	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cb	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cc	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cd	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Ce	175/204 (86%)	131 (75%)	44 (25%)	0	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	Cf	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cg	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Ch	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Ci	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cj	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Ck	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cl	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cm	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cn	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Co	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cp	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cq	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cr	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cs	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Ct	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cu	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cv	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cw	175/204 (86%)	131 (75%)	44 (25%)	0	4
2	Cx	175/204 (86%)	131 (75%)	44 (25%)	0	4
3	D0	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	D1	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	D2	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	D3	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	D4	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	D5	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	D6	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	D7	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	D8	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	D9	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DA	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DB	190/190 (100%)	142 (75%)	48 (25%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	DC	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DD	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DE	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DF	190/190 (100%)	141 (74%)	49 (26%)	0	3
3	DG	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DH	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DI	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DJ	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DK	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DL	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DM	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DN	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DO	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DP	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DQ	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DR	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DS	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DT	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DU	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DV	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DW	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DX	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DY	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DZ	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Da	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Db	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Dc	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Dd	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	De	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Df	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Dg	190/190 (100%)	142 (75%)	48 (25%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	Dh	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Di	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Dj	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Dk	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	DI	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Dm	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Dn	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Do	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Dp	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Dq	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Dr	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	Ds	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	EA	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	EB	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	EC	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	ED	190/190 (100%)	142 (75%)	48 (25%)	0	3
3	EE	190/190 (100%)	142 (75%)	48 (25%)	0	3
4	F0	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	F1	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	F2	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	F3	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	F4	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	F5	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	F6	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	F7	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	F8	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	F9	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FA	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FB	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FC	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FD	18/65 (28%)	15 (83%)	3 (17%)	2	10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	FE	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	FF	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FG	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FH	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FI	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FJ	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FK	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	FL	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FM	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FN	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FO	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FP	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	FQ	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FR	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	FS	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	FT	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FU	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FV	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	FW	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	FX	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	FY	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	FZ	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	Fa	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	Fb	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fc	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	Fd	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fe	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	Ff	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fg	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	Fh	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	Fi	18/65 (28%)	15 (83%)	3 (17%)	2	10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	Fj	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fk	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fl	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	Fm	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fn	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fo	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fp	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	Fq	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fr	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fs	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Ft	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fu	18/65 (28%)	15 (83%)	3 (17%)	2	10
4	Fv	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	Fw	18/65 (28%)	16 (89%)	2 (11%)	6	20
4	Fx	18/65 (28%)	15 (83%)	3 (17%)	2	10
All	All	35460/40020 (89%)	27500 (78%)	7960 (22%)	2	6

All (7960) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A0	1	VAL
1	A0	10	PRO
1	A0	14	GLU
1	A0	19	LEU
1	A0	20	SER
1	A0	21	PRO
1	A0	23	ASP
1	A0	28	THR
1	A0	36	ARG
1	A0	39	ASP
1	A0	40	VAL
1	A0	43	LEU
1	A0	45	LEU
1	A0	46	SER
1	A0	54	THR
1	A0	59	PRO
1	A0	71	LEU

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Mol	Chain	Res	Type
1	A0	86	ILE
1	A0	87	GLN
1	A0	90	PHE
1	A0	92	THR
1	A0	119	TRP
1	A0	130	ILE
1	A0	132	GLN
1	A0	138	MET
1	A0	150	ARG
1	A0	163	MET
1	A0	177	PRO
1	A0	178	THR
1	A0	187	LEU
1	A0	195	ILE
1	A0	196	LEU
1	A0	202	HIS
1	A0	207	CYS
1	A0	209	LEU
1	A0	226	PRO
1	A0	241	THR
1	A0	245	LYS
1	A1	1	VAL
1	A1	10	PRO
1	A1	14	GLU
1	A1	19	LEU
1	A1	20	SER
1	A1	21	PRO
1	A1	23	ASP
1	A1	28	THR
1	A1	36	ARG
1	A1	39	ASP
1	A1	40	VAL
1	A1	43	LEU
1	A1	45	LEU
1	A1	46	SER
1	A1	54	THR
1	A1	59	PRO
1	A1	71	LEU
1	A1	86	ILE
1	A1	87	GLN
1	A1	90	PHE
1	A1	92	THR

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Mol	Chain	Res	Type
1	A1	119	TRP
1	A1	130	ILE
1	A1	132	GLN
1	A1	138	MET
1	A1	150	ARG
1	A1	163	MET
1	A1	177	PRO
1	A1	178	THR
1	A1	187	LEU
1	A1	195	ILE
1	A1	196	LEU
1	A1	202	HIS
1	A1	207	CYS
1	A1	209	LEU
1	A1	226	PRO
1	A1	241	THR
1	A1	245	LYS
1	A2	1	VAL
1	A2	10	PRO
1	A2	14	GLU
1	A2	19	LEU
1	A2	20	SER
1	A2	21	PRO
1	A2	23	ASP
1	A2	28	THR
1	A2	36	ARG
1	A2	39	ASP
1	A2	40	VAL
1	A2	43	LEU
1	A2	45	LEU
1	A2	46	SER
1	A2	54	THR
1	A2	59	PRO
1	A2	71	LEU
1	A2	86	ILE
1	A2	87	GLN
1	A2	90	PHE
1	A2	92	THR
1	A2	119	TRP
1	A2	130	ILE
1	A2	132	GLN
1	A2	138	MET

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Mol	Chain	Res	Type
1	A2	150	ARG
1	A2	163	MET
1	A2	177	PRO
1	A2	178	THR
1	A2	187	LEU
1	A2	195	ILE
1	A2	196	LEU
1	A2	202	HIS
1	A2	207	CYS
1	A2	209	LEU
1	A2	226	PRO
1	A2	241	THR
1	A2	245	LYS
1	A3	1	VAL
1	A3	10	PRO
1	A3	14	GLU
1	A3	19	LEU
1	A3	20	SER
1	A3	21	PRO
1	A3	23	ASP
1	A3	28	THR
1	A3	36	ARG
1	A3	39	ASP
1	A3	40	VAL
1	A3	43	LEU
1	A3	45	LEU
1	A3	46	SER
1	A3	54	THR
1	A3	59	PRO
1	A3	71	LEU
1	A3	86	ILE
1	A3	87	GLN
1	A3	90	PHE
1	A3	92	THR
1	A3	119	TRP
1	A3	130	ILE
1	A3	132	GLN
1	A3	138	MET
1	A3	150	ARG
1	A3	163	MET
1	A3	177	PRO
1	A3	178	THR

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Mol	Chain	Res	Type
1	A3	187	LEU
1	A3	195	ILE
1	A3	196	LEU
1	A3	202	HIS
1	A3	207	CYS
1	A3	209	LEU
1	A3	226	PRO
1	A3	241	THR
1	A3	245	LYS
1	A4	1	VAL
1	A4	10	PRO
1	A4	14	GLU
1	A4	19	LEU
1	A4	20	SER
1	A4	21	PRO
1	A4	23	ASP
1	A4	28	THR
1	A4	36	ARG
1	A4	39	ASP
1	A4	40	VAL
1	A4	43	LEU
1	A4	45	LEU
1	A4	46	SER
1	A4	54	THR
1	A4	59	PRO
1	A4	71	LEU
1	A4	86	ILE
1	A4	87	GLN
1	A4	90	PHE
1	A4	92	THR
1	A4	119	TRP
1	A4	130	ILE
1	A4	132	GLN
1	A4	138	MET
1	A4	150	ARG
1	A4	163	MET
1	A4	177	PRO
1	A4	178	THR
1	A4	187	LEU
1	A4	195	ILE
1	A4	196	LEU
1	A4	202	HIS

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Mol	Chain	Res	Type
1	A4	207	CYS
1	A4	209	LEU
1	A4	226	PRO
1	A4	241	THR
1	A4	245	LYS
1	A5	1	VAL
1	A5	10	PRO
1	A5	14	GLU
1	A5	19	LEU
1	A5	20	SER
1	A5	21	PRO
1	A5	23	ASP
1	A5	28	THR
1	A5	36	ARG
1	A5	39	ASP
1	A5	40	VAL
1	A5	43	LEU
1	A5	45	LEU
1	A5	46	SER
1	A5	54	THR
1	A5	59	PRO
1	A5	71	LEU
1	A5	86	ILE
1	A5	87	GLN
1	A5	90	PHE
1	A5	92	THR
1	A5	119	TRP
1	A5	130	ILE
1	A5	132	GLN
1	A5	138	MET
1	A5	150	ARG
1	A5	163	MET
1	A5	177	PRO
1	A5	178	THR
1	A5	187	LEU
1	A5	195	ILE
1	A5	196	LEU
1	A5	202	HIS
1	A5	207	CYS
1	A5	209	LEU
1	A5	226	PRO
1	A5	241	THR

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Mol	Chain	Res	Type
1	A5	245	LYS
1	A6	1	VAL
1	A6	10	PRO
1	A6	14	GLU
1	A6	19	LEU
1	A6	20	SER
1	A6	21	PRO
1	A6	23	ASP
1	A6	28	THR
1	A6	36	ARG
1	A6	39	ASP
1	A6	40	VAL
1	A6	43	LEU
1	A6	45	LEU
1	A6	46	SER
1	A6	54	THR
1	A6	59	PRO
1	A6	71	LEU
1	A6	86	ILE
1	A6	87	GLN
1	A6	90	PHE
1	A6	92	THR
1	A6	119	TRP
1	A6	130	ILE
1	A6	132	GLN
1	A6	138	MET
1	A6	150	ARG
1	A6	163	MET
1	A6	177	PRO
1	A6	178	THR
1	A6	187	LEU
1	A6	195	ILE
1	A6	196	LEU
1	A6	202	HIS
1	A6	207	CYS
1	A6	209	LEU
1	A6	226	PRO
1	A6	241	THR
1	A6	245	LYS
1	A7	1	VAL
1	A7	10	PRO
1	A7	14	GLU

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Mol	Chain	Res	Type
1	A7	19	LEU
1	A7	20	SER
1	A7	21	PRO
1	A7	23	ASP
1	A7	28	THR
1	A7	36	ARG
1	A7	39	ASP
1	A7	40	VAL
1	A7	43	LEU
1	A7	45	LEU
1	A7	46	SER
1	A7	54	THR
1	A7	59	PRO
1	A7	71	LEU
1	A7	86	ILE
1	A7	87	GLN
1	A7	90	PHE
1	A7	92	THR
1	A7	119	TRP
1	A7	130	ILE
1	A7	132	GLN
1	A7	138	MET
1	A7	150	ARG
1	A7	163	MET
1	A7	177	PRO
1	A7	178	THR
1	A7	187	LEU
1	A7	195	ILE
1	A7	196	LEU
1	A7	202	HIS
1	A7	207	CYS
1	A7	209	LEU
1	A7	226	PRO
1	A7	241	THR
1	A7	245	LYS
1	A8	1	VAL
1	A8	10	PRO
1	A8	14	GLU
1	A8	19	LEU
1	A8	20	SER
1	A8	21	PRO
1	A8	23	ASP

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Mol	Chain	Res	Type
1	A8	28	THR
1	A8	36	ARG
1	A8	39	ASP
1	A8	40	VAL
1	A8	43	LEU
1	A8	45	LEU
1	A8	46	SER
1	A8	54	THR
1	A8	59	PRO
1	A8	71	LEU
1	A8	86	ILE
1	A8	87	GLN
1	A8	90	PHE
1	A8	92	THR
1	A8	119	TRP
1	A8	130	ILE
1	A8	132	GLN
1	A8	138	MET
1	A8	150	ARG
1	A8	163	MET
1	A8	177	PRO
1	A8	178	THR
1	A8	187	LEU
1	A8	195	ILE
1	A8	196	LEU
1	A8	202	HIS
1	A8	207	CYS
1	A8	209	LEU
1	A8	226	PRO
1	A8	241	THR
1	A8	245	LYS
1	A9	1	VAL
1	A9	10	PRO
1	A9	14	GLU
1	A9	19	LEU
1	A9	20	SER
1	A9	21	PRO
1	A9	23	ASP
1	A9	28	THR
1	A9	36	ARG
1	A9	39	ASP
1	A9	40	VAL

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Mol	Chain	Res	Type
1	A9	43	LEU
1	A9	45	LEU
1	A9	46	SER
1	A9	54	THR
1	A9	59	PRO
1	A9	71	LEU
1	A9	86	ILE
1	A9	87	GLN
1	A9	90	PHE
1	A9	92	THR
1	A9	119	TRP
1	A9	130	ILE
1	A9	132	GLN
1	A9	138	MET
1	A9	150	ARG
1	A9	163	MET
1	A9	177	PRO
1	A9	178	THR
1	A9	187	LEU
1	A9	195	ILE
1	A9	196	LEU
1	A9	202	HIS
1	A9	207	CYS
1	A9	209	LEU
1	A9	226	PRO
1	A9	241	THR
1	A9	245	LYS
1	AA	1	VAL
1	AA	10	PRO
1	AA	14	GLU
1	AA	19	LEU
1	AA	20	SER
1	AA	21	PRO
1	AA	23	ASP
1	AA	28	THR
1	AA	36	ARG
1	AA	39	ASP
1	AA	40	VAL
1	AA	43	LEU
1	AA	45	LEU
1	AA	46	SER
1	AA	54	THR

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Mol	Chain	Res	Type
1	AA	59	PRO
1	AA	71	LEU
1	AA	86	ILE
1	AA	87	GLN
1	AA	90	PHE
1	AA	92	THR
1	AA	119	TRP
1	AA	130	ILE
1	AA	132	GLN
1	AA	138	MET
1	AA	150	ARG
1	AA	163	MET
1	AA	177	PRO
1	AA	178	THR
1	AA	187	LEU
1	AA	195	ILE
1	AA	196	LEU
1	AA	202	HIS
1	AA	207	CYS
1	AA	209	LEU
1	AA	226	PRO
1	AA	241	THR
1	AA	245	LYS
1	AB	1	VAL
1	AB	10	PRO
1	AB	14	GLU
1	AB	19	LEU
1	AB	20	SER
1	AB	21	PRO
1	AB	23	ASP
1	AB	28	THR
1	AB	36	ARG
1	AB	39	ASP
1	AB	40	VAL
1	AB	43	LEU
1	AB	45	LEU
1	AB	46	SER
1	AB	54	THR
1	AB	59	PRO
1	AB	71	LEU
1	AB	86	ILE
1	AB	87	GLN

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Mol	Chain	Res	Type
1	AB	90	PHE
1	AB	92	THR
1	AB	119	TRP
1	AB	130	ILE
1	AB	132	GLN
1	AB	138	MET
1	AB	150	ARG
1	AB	163	MET
1	AB	177	PRO
1	AB	178	THR
1	AB	187	LEU
1	AB	195	ILE
1	AB	196	LEU
1	AB	202	HIS
1	AB	207	CYS
1	AB	209	LEU
1	AB	226	PRO
1	AB	241	THR
1	AB	245	LYS
1	AC	1	VAL
1	AC	10	PRO
1	AC	14	GLU
1	AC	19	LEU
1	AC	20	SER
1	AC	21	PRO
1	AC	23	ASP
1	AC	28	THR
1	AC	36	ARG
1	AC	39	ASP
1	AC	40	VAL
1	AC	43	LEU
1	AC	45	LEU
1	AC	46	SER
1	AC	54	THR
1	AC	59	PRO
1	AC	71	LEU
1	AC	86	ILE
1	AC	87	GLN
1	AC	90	PHE
1	AC	92	THR
1	AC	119	TRP
1	AC	130	ILE

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Mol	Chain	Res	Type
1	AC	132	GLN
1	AC	138	MET
1	AC	150	ARG
1	AC	163	MET
1	AC	177	PRO
1	AC	178	THR
1	AC	187	LEU
1	AC	195	ILE
1	AC	196	LEU
1	AC	202	HIS
1	AC	207	CYS
1	AC	209	LEU
1	AC	226	PRO
1	AC	241	THR
1	AC	245	LYS
1	AD	1	VAL
1	AD	10	PRO
1	AD	14	GLU
1	AD	19	LEU
1	AD	20	SER
1	AD	21	PRO
1	AD	23	ASP
1	AD	28	THR
1	AD	36	ARG
1	AD	39	ASP
1	AD	40	VAL
1	AD	43	LEU
1	AD	45	LEU
1	AD	46	SER
1	AD	54	THR
1	AD	59	PRO
1	AD	71	LEU
1	AD	86	ILE
1	AD	87	GLN
1	AD	90	PHE
1	AD	92	THR
1	AD	119	TRP
1	AD	130	ILE
1	AD	132	GLN
1	AD	138	MET
1	AD	150	ARG
1	AD	163	MET

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Mol	Chain	Res	Type
1	AD	177	PRO
1	AD	178	THR
1	AD	187	LEU
1	AD	195	ILE
1	AD	196	LEU
1	AD	202	HIS
1	AD	207	CYS
1	AD	209	LEU
1	AD	226	PRO
1	AD	241	THR
1	AD	245	LYS
1	AE	1	VAL
1	AE	10	PRO
1	AE	14	GLU
1	AE	19	LEU
1	AE	20	SER
1	AE	21	PRO
1	AE	23	ASP
1	AE	28	THR
1	AE	36	ARG
1	AE	39	ASP
1	AE	40	VAL
1	AE	43	LEU
1	AE	45	LEU
1	AE	46	SER
1	AE	54	THR
1	AE	59	PRO
1	AE	71	LEU
1	AE	86	ILE
1	AE	87	GLN
1	AE	90	PHE
1	AE	92	THR
1	AE	119	TRP
1	AE	130	ILE
1	AE	132	GLN
1	AE	138	MET
1	AE	150	ARG
1	AE	163	MET
1	AE	177	PRO
1	AE	178	THR
1	AE	187	LEU
1	AE	195	ILE

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Mol	Chain	Res	Type
1	AE	196	LEU
1	AE	202	HIS
1	AE	207	CYS
1	AE	209	LEU
1	AE	226	PRO
1	AE	241	THR
1	AE	245	LYS
1	AF	1	VAL
1	AF	10	PRO
1	AF	14	GLU
1	AF	19	LEU
1	AF	20	SER
1	AF	21	PRO
1	AF	23	ASP
1	AF	28	THR
1	AF	36	ARG
1	AF	39	ASP
1	AF	40	VAL
1	AF	43	LEU
1	AF	45	LEU
1	AF	46	SER
1	AF	54	THR
1	AF	59	PRO
1	AF	71	LEU
1	AF	86	ILE
1	AF	87	GLN
1	AF	90	PHE
1	AF	92	THR
1	AF	119	TRP
1	AF	130	ILE
1	AF	132	GLN
1	AF	138	MET
1	AF	150	ARG
1	AF	163	MET
1	AF	177	PRO
1	AF	178	THR
1	AF	187	LEU
1	AF	195	ILE
1	AF	196	LEU
1	AF	202	HIS
1	AF	207	CYS
1	AF	209	LEU

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Mol	Chain	Res	Type
1	AF	226	PRO
1	AF	241	THR
1	AF	245	LYS
1	AG	1	VAL
1	AG	10	PRO
1	AG	14	GLU
1	AG	19	LEU
1	AG	20	SER
1	AG	21	PRO
1	AG	23	ASP
1	AG	28	THR
1	AG	36	ARG
1	AG	39	ASP
1	AG	40	VAL
1	AG	43	LEU
1	AG	45	LEU
1	AG	46	SER
1	AG	54	THR
1	AG	59	PRO
1	AG	71	LEU
1	AG	86	ILE
1	AG	87	GLN
1	AG	90	PHE
1	AG	92	THR
1	AG	119	TRP
1	AG	130	ILE
1	AG	132	GLN
1	AG	138	MET
1	AG	150	ARG
1	AG	163	MET
1	AG	177	PRO
1	AG	178	THR
1	AG	187	LEU
1	AG	195	ILE
1	AG	196	LEU
1	AG	202	HIS
1	AG	207	CYS
1	AG	209	LEU
1	AG	226	PRO
1	AG	241	THR
1	AG	245	LYS
1	AH	1	VAL

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Mol	Chain	Res	Type
1	AH	10	PRO
1	AH	14	GLU
1	AH	19	LEU
1	AH	20	SER
1	AH	21	PRO
1	AH	23	ASP
1	AH	28	THR
1	AH	36	ARG
1	AH	39	ASP
1	AH	40	VAL
1	AH	43	LEU
1	AH	45	LEU
1	AH	46	SER
1	AH	54	THR
1	AH	59	PRO
1	AH	71	LEU
1	AH	86	ILE
1	AH	87	GLN
1	AH	90	PHE
1	AH	92	THR
1	AH	119	TRP
1	AH	130	ILE
1	AH	132	GLN
1	AH	138	MET
1	AH	150	ARG
1	AH	163	MET
1	AH	177	PRO
1	AH	178	THR
1	AH	187	LEU
1	AH	195	ILE
1	AH	196	LEU
1	AH	202	HIS
1	AH	207	CYS
1	AH	209	LEU
1	AH	226	PRO
1	AH	241	THR
1	AH	245	LYS
1	AI	1	VAL
1	AI	10	PRO
1	AI	14	GLU
1	AI	19	LEU
1	AI	20	SER

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Mol	Chain	Res	Type
1	AI	21	PRO
1	AI	23	ASP
1	AI	28	THR
1	AI	36	ARG
1	AI	39	ASP
1	AI	40	VAL
1	AI	43	LEU
1	AI	45	LEU
1	AI	46	SER
1	AI	54	THR
1	AI	59	PRO
1	AI	71	LEU
1	AI	86	ILE
1	AI	87	GLN
1	AI	90	PHE
1	AI	92	THR
1	AI	119	TRP
1	AI	130	ILE
1	AI	132	GLN
1	AI	138	MET
1	AI	150	ARG
1	AI	163	MET
1	AI	177	PRO
1	AI	178	THR
1	AI	187	LEU
1	AI	195	ILE
1	AI	196	LEU
1	AI	202	HIS
1	AI	207	CYS
1	AI	209	LEU
1	AI	226	PRO
1	AI	241	THR
1	AI	245	LYS
1	AJ	1	VAL
1	AJ	10	PRO
1	AJ	14	GLU
1	AJ	19	LEU
1	AJ	20	SER
1	AJ	21	PRO
1	AJ	23	ASP
1	AJ	28	THR
1	AJ	36	ARG

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Mol	Chain	Res	Type
1	AJ	39	ASP
1	AJ	40	VAL
1	AJ	43	LEU
1	AJ	45	LEU
1	AJ	46	SER
1	AJ	54	THR
1	AJ	59	PRO
1	AJ	71	LEU
1	AJ	86	ILE
1	AJ	87	GLN
1	AJ	90	PHE
1	AJ	92	THR
1	AJ	119	TRP
1	AJ	130	ILE
1	AJ	132	GLN
1	AJ	138	MET
1	AJ	150	ARG
1	AJ	163	MET
1	AJ	177	PRO
1	AJ	178	THR
1	AJ	187	LEU
1	AJ	195	ILE
1	AJ	196	LEU
1	AJ	202	HIS
1	AJ	207	CYS
1	AJ	209	LEU
1	AJ	226	PRO
1	AJ	241	THR
1	AJ	245	LYS
1	AK	1	VAL
1	AK	10	PRO
1	AK	14	GLU
1	AK	19	LEU
1	AK	20	SER
1	AK	21	PRO
1	AK	23	ASP
1	AK	28	THR
1	AK	36	ARG
1	AK	39	ASP
1	AK	40	VAL
1	AK	43	LEU
1	AK	45	LEU

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Mol	Chain	Res	Type
1	AK	46	SER
1	AK	54	THR
1	AK	59	PRO
1	AK	71	LEU
1	AK	86	ILE
1	AK	87	GLN
1	AK	90	PHE
1	AK	92	THR
1	AK	119	TRP
1	AK	130	ILE
1	AK	132	GLN
1	AK	138	MET
1	AK	150	ARG
1	AK	163	MET
1	AK	177	PRO
1	AK	178	THR
1	AK	187	LEU
1	AK	195	ILE
1	AK	196	LEU
1	AK	202	HIS
1	AK	207	CYS
1	AK	209	LEU
1	AK	226	PRO
1	AK	241	THR
1	AK	245	LYS
1	AL	1	VAL
1	AL	10	PRO
1	AL	14	GLU
1	AL	19	LEU
1	AL	20	SER
1	AL	21	PRO
1	AL	23	ASP
1	AL	28	THR
1	AL	36	ARG
1	AL	39	ASP
1	AL	40	VAL
1	AL	43	LEU
1	AL	45	LEU
1	AL	46	SER
1	AL	54	THR
1	AL	59	PRO
1	AL	71	LEU

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Mol	Chain	Res	Type
1	AL	86	ILE
1	AL	87	GLN
1	AL	90	PHE
1	AL	92	THR
1	AL	119	TRP
1	AL	130	ILE
1	AL	132	GLN
1	AL	138	MET
1	AL	150	ARG
1	AL	163	MET
1	AL	177	PRO
1	AL	178	THR
1	AL	187	LEU
1	AL	195	ILE
1	AL	196	LEU
1	AL	202	HIS
1	AL	207	CYS
1	AL	209	LEU
1	AL	226	PRO
1	AL	241	THR
1	AL	245	LYS
1	AM	1	VAL
1	AM	10	PRO
1	AM	14	GLU
1	AM	19	LEU
1	AM	20	SER
1	AM	21	PRO
1	AM	23	ASP
1	AM	28	THR
1	AM	36	ARG
1	AM	39	ASP
1	AM	40	VAL
1	AM	43	LEU
1	AM	45	LEU
1	AM	46	SER
1	AM	54	THR
1	AM	59	PRO
1	AM	71	LEU
1	AM	86	ILE
1	AM	87	GLN
1	AM	90	PHE
1	AM	92	THR

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Mol	Chain	Res	Type
1	AM	119	TRP
1	AM	130	ILE
1	AM	132	GLN
1	AM	138	MET
1	AM	150	ARG
1	AM	163	MET
1	AM	177	PRO
1	AM	178	THR
1	AM	187	LEU
1	AM	195	ILE
1	AM	196	LEU
1	AM	202	HIS
1	AM	207	CYS
1	AM	209	LEU
1	AM	226	PRO
1	AM	241	THR
1	AM	245	LYS
1	AN	1	VAL
1	AN	10	PRO
1	AN	14	GLU
1	AN	19	LEU
1	AN	20	SER
1	AN	21	PRO
1	AN	23	ASP
1	AN	28	THR
1	AN	36	ARG
1	AN	39	ASP
1	AN	40	VAL
1	AN	43	LEU
1	AN	45	LEU
1	AN	46	SER
1	AN	54	THR
1	AN	59	PRO
1	AN	71	LEU
1	AN	86	ILE
1	AN	87	GLN
1	AN	90	PHE
1	AN	92	THR
1	AN	119	TRP
1	AN	130	ILE
1	AN	132	GLN
1	AN	138	MET

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Mol	Chain	Res	Type
1	AN	150	ARG
1	AN	163	MET
1	AN	177	PRO
1	AN	178	THR
1	AN	187	LEU
1	AN	195	ILE
1	AN	196	LEU
1	AN	202	HIS
1	AN	207	CYS
1	AN	209	LEU
1	AN	226	PRO
1	AN	241	THR
1	AN	245	LYS
1	AO	1	VAL
1	AO	10	PRO
1	AO	14	GLU
1	AO	19	LEU
1	AO	20	SER
1	AO	21	PRO
1	AO	23	ASP
1	AO	28	THR
1	AO	36	ARG
1	AO	39	ASP
1	AO	40	VAL
1	AO	43	LEU
1	AO	45	LEU
1	AO	46	SER
1	AO	54	THR
1	AO	59	PRO
1	AO	71	LEU
1	AO	86	ILE
1	AO	87	GLN
1	AO	90	PHE
1	AO	92	THR
1	AO	119	TRP
1	AO	130	ILE
1	AO	132	GLN
1	AO	138	MET
1	AO	150	ARG
1	AO	163	MET
1	AO	177	PRO
1	AO	178	THR

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Mol	Chain	Res	Type
1	AO	187	LEU
1	AO	195	ILE
1	AO	196	LEU
1	AO	202	HIS
1	AO	207	CYS
1	AO	209	LEU
1	AO	226	PRO
1	AO	241	THR
1	AO	245	LYS
1	AP	1	VAL
1	AP	10	PRO
1	AP	14	GLU
1	AP	19	LEU
1	AP	20	SER
1	AP	21	PRO
1	AP	23	ASP
1	AP	28	THR
1	AP	36	ARG
1	AP	39	ASP
1	AP	40	VAL
1	AP	43	LEU
1	AP	45	LEU
1	AP	46	SER
1	AP	54	THR
1	AP	59	PRO
1	AP	71	LEU
1	AP	86	ILE
1	AP	87	GLN
1	AP	90	PHE
1	AP	92	THR
1	AP	119	TRP
1	AP	130	ILE
1	AP	132	GLN
1	AP	138	MET
1	AP	150	ARG
1	AP	163	MET
1	AP	177	PRO
1	AP	178	THR
1	AP	187	LEU
1	AP	195	ILE
1	AP	196	LEU
1	AP	202	HIS

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Mol	Chain	Res	Type
1	AP	207	CYS
1	AP	209	LEU
1	AP	226	PRO
1	AP	241	THR
1	AP	245	LYS
1	AQ	1	VAL
1	AQ	10	PRO
1	AQ	14	GLU
1	AQ	19	LEU
1	AQ	20	SER
1	AQ	21	PRO
1	AQ	23	ASP
1	AQ	28	THR
1	AQ	36	ARG
1	AQ	39	ASP
1	AQ	40	VAL
1	AQ	43	LEU
1	AQ	45	LEU
1	AQ	46	SER
1	AQ	54	THR
1	AQ	59	PRO
1	AQ	71	LEU
1	AQ	86	ILE
1	AQ	87	GLN
1	AQ	90	PHE
1	AQ	92	THR
1	AQ	119	TRP
1	AQ	130	ILE
1	AQ	132	GLN
1	AQ	138	MET
1	AQ	150	ARG
1	AQ	163	MET
1	AQ	177	PRO
1	AQ	178	THR
1	AQ	187	LEU
1	AQ	195	ILE
1	AQ	196	LEU
1	AQ	202	HIS
1	AQ	207	CYS
1	AQ	209	LEU
1	AQ	226	PRO
1	AQ	241	THR

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Mol	Chain	Res	Type
1	AQ	245	LYS
1	AR	1	VAL
1	AR	10	PRO
1	AR	14	GLU
1	AR	19	LEU
1	AR	20	SER
1	AR	21	PRO
1	AR	23	ASP
1	AR	28	THR
1	AR	36	ARG
1	AR	39	ASP
1	AR	40	VAL
1	AR	43	LEU
1	AR	45	LEU
1	AR	46	SER
1	AR	54	THR
1	AR	59	PRO
1	AR	71	LEU
1	AR	86	ILE
1	AR	87	GLN
1	AR	90	PHE
1	AR	92	THR
1	AR	119	TRP
1	AR	130	ILE
1	AR	132	GLN
1	AR	138	MET
1	AR	150	ARG
1	AR	163	MET
1	AR	177	PRO
1	AR	178	THR
1	AR	187	LEU
1	AR	195	ILE
1	AR	196	LEU
1	AR	202	HIS
1	AR	207	CYS
1	AR	209	LEU
1	AR	226	PRO
1	AR	241	THR
1	AR	245	LYS
1	AS	1	VAL
1	AS	10	PRO
1	AS	14	GLU

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Mol	Chain	Res	Type
1	AS	19	LEU
1	AS	20	SER
1	AS	21	PRO
1	AS	23	ASP
1	AS	28	THR
1	AS	36	ARG
1	AS	39	ASP
1	AS	40	VAL
1	AS	43	LEU
1	AS	45	LEU
1	AS	46	SER
1	AS	54	THR
1	AS	59	PRO
1	AS	71	LEU
1	AS	86	ILE
1	AS	87	GLN
1	AS	90	PHE
1	AS	92	THR
1	AS	119	TRP
1	AS	130	ILE
1	AS	132	GLN
1	AS	138	MET
1	AS	150	ARG
1	AS	163	MET
1	AS	177	PRO
1	AS	178	THR
1	AS	187	LEU
1	AS	195	ILE
1	AS	196	LEU
1	AS	202	HIS
1	AS	207	CYS
1	AS	209	LEU
1	AS	226	PRO
1	AS	241	THR
1	AS	245	LYS
1	AT	1	VAL
1	AT	10	PRO
1	AT	14	GLU
1	AT	19	LEU
1	AT	20	SER
1	AT	21	PRO
1	AT	23	ASP

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Mol	Chain	Res	Type
1	AT	28	THR
1	AT	36	ARG
1	AT	39	ASP
1	AT	40	VAL
1	AT	43	LEU
1	AT	45	LEU
1	AT	46	SER
1	AT	54	THR
1	AT	59	PRO
1	AT	71	LEU
1	AT	86	ILE
1	AT	87	GLN
1	AT	90	PHE
1	AT	92	THR
1	AT	119	TRP
1	AT	130	ILE
1	AT	132	GLN
1	AT	138	MET
1	AT	150	ARG
1	AT	163	MET
1	AT	177	PRO
1	AT	178	THR
1	AT	187	LEU
1	AT	195	ILE
1	AT	196	LEU
1	AT	202	HIS
1	AT	207	CYS
1	AT	209	LEU
1	AT	226	PRO
1	AT	241	THR
1	AT	245	LYS
1	AU	1	VAL
1	AU	10	PRO
1	AU	14	GLU
1	AU	19	LEU
1	AU	20	SER
1	AU	21	PRO
1	AU	23	ASP
1	AU	28	THR
1	AU	36	ARG
1	AU	39	ASP
1	AU	40	VAL

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Mol	Chain	Res	Type
1	AU	43	LEU
1	AU	45	LEU
1	AU	46	SER
1	AU	54	THR
1	AU	59	PRO
1	AU	71	LEU
1	AU	86	ILE
1	AU	87	GLN
1	AU	90	PHE
1	AU	92	THR
1	AU	119	TRP
1	AU	130	ILE
1	AU	132	GLN
1	AU	138	MET
1	AU	150	ARG
1	AU	163	MET
1	AU	177	PRO
1	AU	178	THR
1	AU	187	LEU
1	AU	195	ILE
1	AU	196	LEU
1	AU	202	HIS
1	AU	207	CYS
1	AU	209	LEU
1	AU	226	PRO
1	AU	241	THR
1	AU	245	LYS
1	AV	1	VAL
1	AV	10	PRO
1	AV	14	GLU
1	AV	19	LEU
1	AV	20	SER
1	AV	21	PRO
1	AV	23	ASP
1	AV	28	THR
1	AV	36	ARG
1	AV	39	ASP
1	AV	40	VAL
1	AV	43	LEU
1	AV	45	LEU
1	AV	46	SER
1	AV	54	THR

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Mol	Chain	Res	Type
1	AV	59	PRO
1	AV	71	LEU
1	AV	86	ILE
1	AV	87	GLN
1	AV	90	PHE
1	AV	92	THR
1	AV	119	TRP
1	AV	130	ILE
1	AV	132	GLN
1	AV	138	MET
1	AV	150	ARG
1	AV	163	MET
1	AV	177	PRO
1	AV	178	THR
1	AV	187	LEU
1	AV	195	ILE
1	AV	196	LEU
1	AV	202	HIS
1	AV	207	CYS
1	AV	209	LEU
1	AV	226	PRO
1	AV	241	THR
1	AV	245	LYS
1	AW	1	VAL
1	AW	10	PRO
1	AW	14	GLU
1	AW	19	LEU
1	AW	20	SER
1	AW	21	PRO
1	AW	23	ASP
1	AW	28	THR
1	AW	36	ARG
1	AW	39	ASP
1	AW	40	VAL
1	AW	43	LEU
1	AW	45	LEU
1	AW	46	SER
1	AW	54	THR
1	AW	59	PRO
1	AW	71	LEU
1	AW	86	ILE
1	AW	87	GLN

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Mol	Chain	Res	Type
1	AW	90	PHE
1	AW	92	THR
1	AW	119	TRP
1	AW	130	ILE
1	AW	132	GLN
1	AW	138	MET
1	AW	150	ARG
1	AW	163	MET
1	AW	177	PRO
1	AW	178	THR
1	AW	187	LEU
1	AW	195	ILE
1	AW	196	LEU
1	AW	202	HIS
1	AW	207	CYS
1	AW	209	LEU
1	AW	226	PRO
1	AW	241	THR
1	AW	245	LYS
1	AX	1	VAL
1	AX	10	PRO
1	AX	14	GLU
1	AX	19	LEU
1	AX	20	SER
1	AX	21	PRO
1	AX	23	ASP
1	AX	28	THR
1	AX	36	ARG
1	AX	39	ASP
1	AX	40	VAL
1	AX	43	LEU
1	AX	45	LEU
1	AX	46	SER
1	AX	54	THR
1	AX	59	PRO
1	AX	71	LEU
1	AX	86	ILE
1	AX	87	GLN
1	AX	90	PHE
1	AX	92	THR
1	AX	119	TRP
1	AX	130	ILE

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Mol	Chain	Res	Type
1	AX	132	GLN
1	AX	138	MET
1	AX	150	ARG
1	AX	163	MET
1	AX	177	PRO
1	AX	178	THR
1	AX	187	LEU
1	AX	195	ILE
1	AX	196	LEU
1	AX	202	HIS
1	AX	207	CYS
1	AX	209	LEU
1	AX	226	PRO
1	AX	241	THR
1	AX	245	LYS
1	AY	1	VAL
1	AY	10	PRO
1	AY	14	GLU
1	AY	19	LEU
1	AY	20	SER
1	AY	21	PRO
1	AY	23	ASP
1	AY	28	THR
1	AY	36	ARG
1	AY	39	ASP
1	AY	40	VAL
1	AY	43	LEU
1	AY	45	LEU
1	AY	46	SER
1	AY	54	THR
1	AY	59	PRO
1	AY	71	LEU
1	AY	86	ILE
1	AY	87	GLN
1	AY	90	PHE
1	AY	92	THR
1	AY	119	TRP
1	AY	130	ILE
1	AY	132	GLN
1	AY	138	MET
1	AY	150	ARG
1	AY	163	MET

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Mol	Chain	Res	Type
1	AY	177	PRO
1	AY	178	THR
1	AY	187	LEU
1	AY	195	ILE
1	AY	196	LEU
1	AY	202	HIS
1	AY	207	CYS
1	AY	209	LEU
1	AY	226	PRO
1	AY	241	THR
1	AY	245	LYS
1	AZ	1	VAL
1	AZ	10	PRO
1	AZ	14	GLU
1	AZ	19	LEU
1	AZ	20	SER
1	AZ	21	PRO
1	AZ	23	ASP
1	AZ	28	THR
1	AZ	36	ARG
1	AZ	39	ASP
1	AZ	40	VAL
1	AZ	43	LEU
1	AZ	45	LEU
1	AZ	46	SER
1	AZ	54	THR
1	AZ	59	PRO
1	AZ	71	LEU
1	AZ	86	ILE
1	AZ	87	GLN
1	AZ	90	PHE
1	AZ	92	THR
1	AZ	119	TRP
1	AZ	130	ILE
1	AZ	132	GLN
1	AZ	138	MET
1	AZ	150	ARG
1	AZ	163	MET
1	AZ	177	PRO
1	AZ	178	THR
1	AZ	187	LEU
1	AZ	195	ILE

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Mol	Chain	Res	Type
1	AZ	196	LEU
1	AZ	202	HIS
1	AZ	207	CYS
1	AZ	209	LEU
1	AZ	226	PRO
1	AZ	241	THR
1	AZ	245	LYS
1	Aa	1	VAL
1	Aa	10	PRO
1	Aa	14	GLU
1	Aa	19	LEU
1	Aa	20	SER
1	Aa	21	PRO
1	Aa	23	ASP
1	Aa	28	THR
1	Aa	36	ARG
1	Aa	39	ASP
1	Aa	40	VAL
1	Aa	43	LEU
1	Aa	45	LEU
1	Aa	46	SER
1	Aa	54	THR
1	Aa	59	PRO
1	Aa	71	LEU
1	Aa	86	ILE
1	Aa	87	GLN
1	Aa	90	PHE
1	Aa	92	THR
1	Aa	119	TRP
1	Aa	130	ILE
1	Aa	132	GLN
1	Aa	138	MET
1	Aa	150	ARG
1	Aa	163	MET
1	Aa	177	PRO
1	Aa	178	THR
1	Aa	187	LEU
1	Aa	195	ILE
1	Aa	196	LEU
1	Aa	202	HIS
1	Aa	207	CYS
1	Aa	209	LEU

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Mol	Chain	Res	Type
1	Aa	226	PRO
1	Aa	241	THR
1	Aa	245	LYS
1	Ab	1	VAL
1	Ab	10	PRO
1	Ab	14	GLU
1	Ab	19	LEU
1	Ab	20	SER
1	Ab	21	PRO
1	Ab	23	ASP
1	Ab	28	THR
1	Ab	36	ARG
1	Ab	39	ASP
1	Ab	40	VAL
1	Ab	43	LEU
1	Ab	45	LEU
1	Ab	46	SER
1	Ab	54	THR
1	Ab	59	PRO
1	Ab	71	LEU
1	Ab	86	ILE
1	Ab	87	GLN
1	Ab	90	PHE
1	Ab	92	THR
1	Ab	119	TRP
1	Ab	130	ILE
1	Ab	132	GLN
1	Ab	138	MET
1	Ab	150	ARG
1	Ab	163	MET
1	Ab	177	PRO
1	Ab	178	THR
1	Ab	187	LEU
1	Ab	195	ILE
1	Ab	196	LEU
1	Ab	202	HIS
1	Ab	207	CYS
1	Ab	209	LEU
1	Ab	226	PRO
1	Ab	241	THR
1	Ab	245	LYS
1	Ac	1	VAL

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Mol	Chain	Res	Type
1	Ac	10	PRO
1	Ac	14	GLU
1	Ac	19	LEU
1	Ac	20	SER
1	Ac	21	PRO
1	Ac	23	ASP
1	Ac	28	THR
1	Ac	36	ARG
1	Ac	39	ASP
1	Ac	40	VAL
1	Ac	43	LEU
1	Ac	45	LEU
1	Ac	46	SER
1	Ac	54	THR
1	Ac	59	PRO
1	Ac	71	LEU
1	Ac	86	ILE
1	Ac	87	GLN
1	Ac	90	PHE
1	Ac	92	THR
1	Ac	119	TRP
1	Ac	130	ILE
1	Ac	132	GLN
1	Ac	138	MET
1	Ac	150	ARG
1	Ac	163	MET
1	Ac	177	PRO
1	Ac	178	THR
1	Ac	187	LEU
1	Ac	195	ILE
1	Ac	196	LEU
1	Ac	202	HIS
1	Ac	207	CYS
1	Ac	209	LEU
1	Ac	226	PRO
1	Ac	241	THR
1	Ac	245	LYS
1	Ad	1	VAL
1	Ad	10	PRO
1	Ad	14	GLU
1	Ad	19	LEU
1	Ad	20	SER

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Mol	Chain	Res	Type
1	Ad	21	PRO
1	Ad	23	ASP
1	Ad	28	THR
1	Ad	36	ARG
1	Ad	39	ASP
1	Ad	40	VAL
1	Ad	43	LEU
1	Ad	45	LEU
1	Ad	46	SER
1	Ad	54	THR
1	Ad	59	PRO
1	Ad	71	LEU
1	Ad	86	ILE
1	Ad	87	GLN
1	Ad	90	PHE
1	Ad	92	THR
1	Ad	119	TRP
1	Ad	130	ILE
1	Ad	132	GLN
1	Ad	138	MET
1	Ad	150	ARG
1	Ad	163	MET
1	Ad	177	PRO
1	Ad	178	THR
1	Ad	187	LEU
1	Ad	195	ILE
1	Ad	196	LEU
1	Ad	202	HIS
1	Ad	207	CYS
1	Ad	209	LEU
1	Ad	226	PRO
1	Ad	241	THR
1	Ad	245	LYS
1	Ae	1	VAL
1	Ae	10	PRO
1	Ae	14	GLU
1	Ae	19	LEU
1	Ae	20	SER
1	Ae	21	PRO
1	Ae	23	ASP
1	Ae	28	THR
1	Ae	36	ARG

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Mol	Chain	Res	Type
1	Ae	39	ASP
1	Ae	40	VAL
1	Ae	43	LEU
1	Ae	45	LEU
1	Ae	46	SER
1	Ae	54	THR
1	Ae	59	PRO
1	Ae	71	LEU
1	Ae	86	ILE
1	Ae	87	GLN
1	Ae	90	PHE
1	Ae	92	THR
1	Ae	119	TRP
1	Ae	130	ILE
1	Ae	132	GLN
1	Ae	138	MET
1	Ae	150	ARG
1	Ae	163	MET
1	Ae	177	PRO
1	Ae	178	THR
1	Ae	187	LEU
1	Ae	195	ILE
1	Ae	196	LEU
1	Ae	202	HIS
1	Ae	207	CYS
1	Ae	209	LEU
1	Ae	226	PRO
1	Ae	241	THR
1	Ae	245	LYS
1	Af	1	VAL
1	Af	10	PRO
1	Af	14	GLU
1	Af	19	LEU
1	Af	20	SER
1	Af	21	PRO
1	Af	23	ASP
1	Af	28	THR
1	Af	36	ARG
1	Af	39	ASP
1	Af	40	VAL
1	Af	43	LEU
1	Af	45	LEU

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Mol	Chain	Res	Type
1	Af	46	SER
1	Af	54	THR
1	Af	59	PRO
1	Af	71	LEU
1	Af	86	ILE
1	Af	87	GLN
1	Af	90	PHE
1	Af	92	THR
1	Af	119	TRP
1	Af	130	ILE
1	Af	132	GLN
1	Af	138	MET
1	Af	150	ARG
1	Af	163	MET
1	Af	177	PRO
1	Af	178	THR
1	Af	187	LEU
1	Af	195	ILE
1	Af	196	LEU
1	Af	202	HIS
1	Af	207	CYS
1	Af	209	LEU
1	Af	226	PRO
1	Af	241	THR
1	Af	245	LYS
1	Ag	1	VAL
1	Ag	10	PRO
1	Ag	14	GLU
1	Ag	19	LEU
1	Ag	20	SER
1	Ag	21	PRO
1	Ag	23	ASP
1	Ag	28	THR
1	Ag	36	ARG
1	Ag	39	ASP
1	Ag	40	VAL
1	Ag	43	LEU
1	Ag	45	LEU
1	Ag	46	SER
1	Ag	54	THR
1	Ag	59	PRO
1	Ag	71	LEU

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Mol	Chain	Res	Type
1	Ag	86	ILE
1	Ag	87	GLN
1	Ag	90	PHE
1	Ag	92	THR
1	Ag	119	TRP
1	Ag	130	ILE
1	Ag	132	GLN
1	Ag	138	MET
1	Ag	150	ARG
1	Ag	163	MET
1	Ag	177	PRO
1	Ag	178	THR
1	Ag	187	LEU
1	Ag	195	ILE
1	Ag	196	LEU
1	Ag	202	HIS
1	Ag	207	CYS
1	Ag	209	LEU
1	Ag	226	PRO
1	Ag	241	THR
1	Ag	245	LYS
1	Ah	1	VAL
1	Ah	10	PRO
1	Ah	14	GLU
1	Ah	19	LEU
1	Ah	20	SER
1	Ah	21	PRO
1	Ah	23	ASP
1	Ah	28	THR
1	Ah	36	ARG
1	Ah	39	ASP
1	Ah	40	VAL
1	Ah	43	LEU
1	Ah	45	LEU
1	Ah	46	SER
1	Ah	54	THR
1	Ah	59	PRO
1	Ah	71	LEU
1	Ah	86	ILE
1	Ah	87	GLN
1	Ah	90	PHE
1	Ah	92	THR

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Mol	Chain	Res	Type
1	Ah	119	TRP
1	Ah	130	ILE
1	Ah	132	GLN
1	Ah	138	MET
1	Ah	150	ARG
1	Ah	163	MET
1	Ah	177	PRO
1	Ah	178	THR
1	Ah	187	LEU
1	Ah	195	ILE
1	Ah	196	LEU
1	Ah	202	HIS
1	Ah	207	CYS
1	Ah	209	LEU
1	Ah	226	PRO
1	Ah	241	THR
1	Ah	245	LYS
1	Ai	1	VAL
1	Ai	10	PRO
1	Ai	14	GLU
1	Ai	19	LEU
1	Ai	20	SER
1	Ai	21	PRO
1	Ai	23	ASP
1	Ai	28	THR
1	Ai	36	ARG
1	Ai	39	ASP
1	Ai	40	VAL
1	Ai	43	LEU
1	Ai	45	LEU
1	Ai	46	SER
1	Ai	54	THR
1	Ai	59	PRO
1	Ai	71	LEU
1	Ai	86	ILE
1	Ai	87	GLN
1	Ai	90	PHE
1	Ai	92	THR
1	Ai	119	TRP
1	Ai	130	ILE
1	Ai	132	GLN
1	Ai	138	MET

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Mol	Chain	Res	Type
1	Ai	150	ARG
1	Ai	163	MET
1	Ai	177	PRO
1	Ai	178	THR
1	Ai	187	LEU
1	Ai	195	ILE
1	Ai	196	LEU
1	Ai	202	HIS
1	Ai	207	CYS
1	Ai	209	LEU
1	Ai	226	PRO
1	Ai	241	THR
1	Ai	245	LYS
1	Aj	1	VAL
1	Aj	10	PRO
1	Aj	14	GLU
1	Aj	19	LEU
1	Aj	20	SER
1	Aj	21	PRO
1	Aj	23	ASP
1	Aj	28	THR
1	Aj	36	ARG
1	Aj	39	ASP
1	Aj	40	VAL
1	Aj	43	LEU
1	Aj	45	LEU
1	Aj	46	SER
1	Aj	54	THR
1	Aj	59	PRO
1	Aj	71	LEU
1	Aj	86	ILE
1	Aj	87	GLN
1	Aj	90	PHE
1	Aj	92	THR
1	Aj	119	TRP
1	Aj	130	ILE
1	Aj	132	GLN
1	Aj	138	MET
1	Aj	150	ARG
1	Aj	163	MET
1	Aj	177	PRO
1	Aj	178	THR

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Mol	Chain	Res	Type
1	Aj	187	LEU
1	Aj	195	ILE
1	Aj	196	LEU
1	Aj	202	HIS
1	Aj	207	CYS
1	Aj	209	LEU
1	Aj	226	PRO
1	Aj	241	THR
1	Aj	245	LYS
1	Ak	1	VAL
1	Ak	10	PRO
1	Ak	14	GLU
1	Ak	19	LEU
1	Ak	20	SER
1	Ak	21	PRO
1	Ak	23	ASP
1	Ak	28	THR
1	Ak	36	ARG
1	Ak	39	ASP
1	Ak	40	VAL
1	Ak	43	LEU
1	Ak	45	LEU
1	Ak	46	SER
1	Ak	54	THR
1	Ak	59	PRO
1	Ak	71	LEU
1	Ak	86	ILE
1	Ak	87	GLN
1	Ak	90	PHE
1	Ak	92	THR
1	Ak	119	TRP
1	Ak	130	ILE
1	Ak	132	GLN
1	Ak	138	MET
1	Ak	150	ARG
1	Ak	163	MET
1	Ak	177	PRO
1	Ak	178	THR
1	Ak	187	LEU
1	Ak	195	ILE
1	Ak	196	LEU
1	Ak	202	HIS

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Mol	Chain	Res	Type
1	Ak	207	CYS
1	Ak	209	LEU
1	Ak	226	PRO
1	Ak	241	THR
1	Ak	245	LYS
1	Al	1	VAL
1	Al	10	PRO
1	Al	14	GLU
1	Al	19	LEU
1	Al	20	SER
1	Al	21	PRO
1	Al	23	ASP
1	Al	28	THR
1	Al	36	ARG
1	Al	39	ASP
1	Al	40	VAL
1	Al	43	LEU
1	Al	45	LEU
1	Al	46	SER
1	Al	54	THR
1	Al	59	PRO
1	Al	71	LEU
1	Al	86	ILE
1	Al	87	GLN
1	Al	90	PHE
1	Al	92	THR
1	Al	119	TRP
1	Al	130	ILE
1	Al	132	GLN
1	Al	138	MET
1	Al	150	ARG
1	Al	163	MET
1	Al	177	PRO
1	Al	178	THR
1	Al	187	LEU
1	Al	195	ILE
1	Al	196	LEU
1	Al	202	HIS
1	Al	207	CYS
1	Al	209	LEU
1	Al	226	PRO
1	Al	241	THR

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Mol	Chain	Res	Type
1	Al	245	LYS
1	Am	1	VAL
1	Am	10	PRO
1	Am	14	GLU
1	Am	19	LEU
1	Am	20	SER
1	Am	21	PRO
1	Am	23	ASP
1	Am	28	THR
1	Am	36	ARG
1	Am	39	ASP
1	Am	40	VAL
1	Am	43	LEU
1	Am	45	LEU
1	Am	46	SER
1	Am	54	THR
1	Am	59	PRO
1	Am	71	LEU
1	Am	86	ILE
1	Am	87	GLN
1	Am	90	PHE
1	Am	92	THR
1	Am	119	TRP
1	Am	130	ILE
1	Am	132	GLN
1	Am	138	MET
1	Am	150	ARG
1	Am	163	MET
1	Am	177	PRO
1	Am	178	THR
1	Am	187	LEU
1	Am	195	ILE
1	Am	196	LEU
1	Am	202	HIS
1	Am	207	CYS
1	Am	209	LEU
1	Am	226	PRO
1	Am	241	THR
1	Am	245	LYS
1	An	1	VAL
1	An	10	PRO
1	An	14	GLU

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Mol	Chain	Res	Type
1	An	19	LEU
1	An	20	SER
1	An	21	PRO
1	An	23	ASP
1	An	28	THR
1	An	36	ARG
1	An	39	ASP
1	An	40	VAL
1	An	43	LEU
1	An	45	LEU
1	An	46	SER
1	An	54	THR
1	An	59	PRO
1	An	71	LEU
1	An	86	ILE
1	An	87	GLN
1	An	90	PHE
1	An	92	THR
1	An	119	TRP
1	An	130	ILE
1	An	132	GLN
1	An	138	MET
1	An	150	ARG
1	An	163	MET
1	An	177	PRO
1	An	178	THR
1	An	187	LEU
1	An	195	ILE
1	An	196	LEU
1	An	202	HIS
1	An	207	CYS
1	An	209	LEU
1	An	226	PRO
1	An	241	THR
1	An	245	LYS
1	Ao	1	VAL
1	Ao	10	PRO
1	Ao	14	GLU
1	Ao	19	LEU
1	Ao	20	SER
1	Ao	21	PRO
1	Ao	23	ASP

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Mol	Chain	Res	Type
1	Ao	28	THR
1	Ao	36	ARG
1	Ao	39	ASP
1	Ao	40	VAL
1	Ao	43	LEU
1	Ao	45	LEU
1	Ao	46	SER
1	Ao	54	THR
1	Ao	59	PRO
1	Ao	71	LEU
1	Ao	86	ILE
1	Ao	87	GLN
1	Ao	90	PHE
1	Ao	92	THR
1	Ao	119	TRP
1	Ao	130	ILE
1	Ao	132	GLN
1	Ao	138	MET
1	Ao	150	ARG
1	Ao	163	MET
1	Ao	177	PRO
1	Ao	178	THR
1	Ao	187	LEU
1	Ao	195	ILE
1	Ao	196	LEU
1	Ao	202	HIS
1	Ao	207	CYS
1	Ao	209	LEU
1	Ao	226	PRO
1	Ao	241	THR
1	Ao	245	LYS
1	BA	1	VAL
1	BA	10	PRO
1	BA	14	GLU
1	BA	19	LEU
1	BA	20	SER
1	BA	21	PRO
1	BA	23	ASP
1	BA	28	THR
1	BA	36	ARG
1	BA	39	ASP
1	BA	40	VAL

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Mol	Chain	Res	Type
1	BA	43	LEU
1	BA	45	LEU
1	BA	46	SER
1	BA	54	THR
1	BA	59	PRO
1	BA	71	LEU
1	BA	86	ILE
1	BA	87	GLN
1	BA	90	PHE
1	BA	92	THR
1	BA	119	TRP
1	BA	130	ILE
1	BA	132	GLN
1	BA	138	MET
1	BA	150	ARG
1	BA	163	MET
1	BA	177	PRO
1	BA	178	THR
1	BA	187	LEU
1	BA	195	ILE
1	BA	196	LEU
1	BA	202	HIS
1	BA	207	CYS
1	BA	209	LEU
1	BA	226	PRO
1	BA	241	THR
1	BA	245	LYS
1	BB	1	VAL
1	BB	10	PRO
1	BB	14	GLU
1	BB	19	LEU
1	BB	20	SER
1	BB	21	PRO
1	BB	23	ASP
1	BB	28	THR
1	BB	36	ARG
1	BB	39	ASP
1	BB	40	VAL
1	BB	43	LEU
1	BB	45	LEU
1	BB	46	SER
1	BB	54	THR

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Mol	Chain	Res	Type
1	BB	59	PRO
1	BB	71	LEU
1	BB	86	ILE
1	BB	87	GLN
1	BB	90	PHE
1	BB	92	THR
1	BB	119	TRP
1	BB	130	ILE
1	BB	132	GLN
1	BB	138	MET
1	BB	150	ARG
1	BB	163	MET
1	BB	177	PRO
1	BB	178	THR
1	BB	187	LEU
1	BB	195	ILE
1	BB	196	LEU
1	BB	202	HIS
1	BB	207	CYS
1	BB	209	LEU
1	BB	226	PRO
1	BB	241	THR
1	BB	245	LYS
1	BC	1	VAL
1	BC	10	PRO
1	BC	14	GLU
1	BC	19	LEU
1	BC	20	SER
1	BC	21	PRO
1	BC	23	ASP
1	BC	28	THR
1	BC	36	ARG
1	BC	39	ASP
1	BC	40	VAL
1	BC	43	LEU
1	BC	45	LEU
1	BC	46	SER
1	BC	54	THR
1	BC	59	PRO
1	BC	71	LEU
1	BC	86	ILE
1	BC	87	GLN

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Mol	Chain	Res	Type
1	BC	90	PHE
1	BC	92	THR
1	BC	119	TRP
1	BC	130	ILE
1	BC	132	GLN
1	BC	138	MET
1	BC	150	ARG
1	BC	163	MET
1	BC	177	PRO
1	BC	178	THR
1	BC	187	LEU
1	BC	195	ILE
1	BC	196	LEU
1	BC	202	HIS
1	BC	207	CYS
1	BC	209	LEU
1	BC	226	PRO
1	BC	241	THR
1	BC	245	LYS
1	BD	1	VAL
1	BD	10	PRO
1	BD	14	GLU
1	BD	19	LEU
1	BD	20	SER
1	BD	21	PRO
1	BD	23	ASP
1	BD	28	THR
1	BD	36	ARG
1	BD	39	ASP
1	BD	40	VAL
1	BD	43	LEU
1	BD	45	LEU
1	BD	46	SER
1	BD	54	THR
1	BD	59	PRO
1	BD	71	LEU
1	BD	86	ILE
1	BD	87	GLN
1	BD	90	PHE
1	BD	92	THR
1	BD	119	TRP
1	BD	130	ILE

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Mol	Chain	Res	Type
1	BD	132	GLN
1	BD	138	MET
1	BD	150	ARG
1	BD	163	MET
1	BD	177	PRO
1	BD	178	THR
1	BD	187	LEU
1	BD	195	ILE
1	BD	196	LEU
1	BD	202	HIS
1	BD	207	CYS
1	BD	209	LEU
1	BD	226	PRO
1	BD	241	THR
1	BD	245	LYS
1	BE	1	VAL
1	BE	10	PRO
1	BE	14	GLU
1	BE	19	LEU
1	BE	20	SER
1	BE	21	PRO
1	BE	23	ASP
1	BE	28	THR
1	BE	36	ARG
1	BE	39	ASP
1	BE	40	VAL
1	BE	43	LEU
1	BE	45	LEU
1	BE	46	SER
1	BE	54	THR
1	BE	59	PRO
1	BE	71	LEU
1	BE	86	ILE
1	BE	87	GLN
1	BE	90	PHE
1	BE	92	THR
1	BE	119	TRP
1	BE	130	ILE
1	BE	132	GLN
1	BE	138	MET
1	BE	150	ARG
1	BE	163	MET

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Mol	Chain	Res	Type
1	BE	177	PRO
1	BE	178	THR
1	BE	187	LEU
1	BE	195	ILE
1	BE	196	LEU
1	BE	202	HIS
1	BE	207	CYS
1	BE	209	LEU
1	BE	226	PRO
1	BE	241	THR
1	BE	245	LYS
1	BF	1	VAL
1	BF	10	PRO
1	BF	14	GLU
1	BF	19	LEU
1	BF	20	SER
1	BF	21	PRO
1	BF	23	ASP
1	BF	28	THR
1	BF	36	ARG
1	BF	39	ASP
1	BF	40	VAL
1	BF	43	LEU
1	BF	45	LEU
1	BF	46	SER
1	BF	54	THR
1	BF	59	PRO
1	BF	71	LEU
1	BF	86	ILE
1	BF	87	GLN
1	BF	90	PHE
1	BF	92	THR
1	BF	119	TRP
1	BF	130	ILE
1	BF	132	GLN
1	BF	138	MET
1	BF	150	ARG
1	BF	163	MET
1	BF	177	PRO
1	BF	178	THR
1	BF	187	LEU
1	BF	195	ILE

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Mol	Chain	Res	Type
1	BF	196	LEU
1	BF	202	HIS
1	BF	207	CYS
1	BF	209	LEU
1	BF	226	PRO
1	BF	241	THR
1	BF	245	LYS
1	BG	1	VAL
1	BG	10	PRO
1	BG	14	GLU
1	BG	19	LEU
1	BG	20	SER
1	BG	21	PRO
1	BG	23	ASP
1	BG	28	THR
1	BG	36	ARG
1	BG	39	ASP
1	BG	40	VAL
1	BG	43	LEU
1	BG	45	LEU
1	BG	46	SER
1	BG	54	THR
1	BG	59	PRO
1	BG	71	LEU
1	BG	86	ILE
1	BG	87	GLN
1	BG	90	PHE
1	BG	92	THR
1	BG	119	TRP
1	BG	130	ILE
1	BG	132	GLN
1	BG	138	MET
1	BG	150	ARG
1	BG	163	MET
1	BG	177	PRO
1	BG	178	THR
1	BG	187	LEU
1	BG	195	ILE
1	BG	196	LEU
1	BG	202	HIS
1	BG	207	CYS
1	BG	209	LEU

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Mol	Chain	Res	Type
1	BG	226	PRO
1	BG	241	THR
1	BG	245	LYS
1	BH	1	VAL
1	BH	10	PRO
1	BH	14	GLU
1	BH	19	LEU
1	BH	20	SER
1	BH	21	PRO
1	BH	23	ASP
1	BH	28	THR
1	BH	36	ARG
1	BH	39	ASP
1	BH	40	VAL
1	BH	43	LEU
1	BH	45	LEU
1	BH	46	SER
1	BH	54	THR
1	BH	59	PRO
1	BH	71	LEU
1	BH	86	ILE
1	BH	87	GLN
1	BH	90	PHE
1	BH	92	THR
1	BH	119	TRP
1	BH	130	ILE
1	BH	132	GLN
1	BH	138	MET
1	BH	150	ARG
1	BH	163	MET
1	BH	177	PRO
1	BH	178	THR
1	BH	187	LEU
1	BH	195	ILE
1	BH	196	LEU
1	BH	202	HIS
1	BH	207	CYS
1	BH	209	LEU
1	BH	226	PRO
1	BH	241	THR
1	BH	245	LYS
1	BI	1	VAL

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Mol	Chain	Res	Type
1	BI	10	PRO
1	BI	14	GLU
1	BI	19	LEU
1	BI	20	SER
1	BI	21	PRO
1	BI	23	ASP
1	BI	28	THR
1	BI	36	ARG
1	BI	39	ASP
1	BI	40	VAL
1	BI	43	LEU
1	BI	45	LEU
1	BI	46	SER
1	BI	54	THR
1	BI	59	PRO
1	BI	71	LEU
1	BI	86	ILE
1	BI	87	GLN
1	BI	90	PHE
1	BI	92	THR
1	BI	119	TRP
1	BI	130	ILE
1	BI	132	GLN
1	BI	138	MET
1	BI	150	ARG
1	BI	163	MET
1	BI	177	PRO
1	BI	178	THR
1	BI	187	LEU
1	BI	195	ILE
1	BI	196	LEU
1	BI	202	HIS
1	BI	207	CYS
1	BI	209	LEU
1	BI	226	PRO
1	BI	241	THR
1	BI	245	LYS
2	C0	13	ARG
2	C0	18	VAL
2	C0	22	THR
2	C0	27	GLN
2	C0	29	SER

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Mol	Chain	Res	Type
2	C0	45	SER
2	C0	56	PRO
2	C0	58	LEU
2	C0	73	GLN
2	C0	75	HIS
2	C0	80	ILE
2	C0	84	PRO
2	C0	88	LEU
2	C0	93	SER
2	C0	103	LEU
2	C0	104	VAL
2	C0	110	VAL
2	C0	112	VAL
2	C0	126	VAL
2	C0	134	HIS
2	C0	135	THR
2	C0	150	TYR
2	C0	159	PRO
2	C0	160	HIS
2	C0	162	LEU
2	C0	166	ARG
2	C0	167	THR
2	C0	174	VAL
2	C0	176	PRO
2	C0	178	ILE
2	C0	184	THR
2	C0	186	LEU
2	C0	188	LEU
2	C0	193	THR
2	C0	194	ILE
2	C0	195	VAL
2	C0	197	LEU
2	C0	200	SER
2	C0	202	LEU
2	C0	203	THR
2	C0	210	PRO
2	C0	214	SER
2	C0	222	VAL
2	C0	223	ASN
2	C1	13	ARG
2	C1	18	VAL
2	C1	22	THR

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Mol	Chain	Res	Type
2	C1	27	GLN
2	C1	29	SER
2	C1	45	SER
2	C1	56	PRO
2	C1	58	LEU
2	C1	73	GLN
2	C1	75	HIS
2	C1	80	ILE
2	C1	84	PRO
2	C1	88	LEU
2	C1	93	SER
2	C1	103	LEU
2	C1	104	VAL
2	C1	110	VAL
2	C1	112	VAL
2	C1	126	VAL
2	C1	134	HIS
2	C1	135	THR
2	C1	150	TYR
2	C1	159	PRO
2	C1	160	HIS
2	C1	162	LEU
2	C1	166	ARG
2	C1	167	THR
2	C1	174	VAL
2	C1	176	PRO
2	C1	178	ILE
2	C1	184	THR
2	C1	186	LEU
2	C1	188	LEU
2	C1	193	THR
2	C1	194	ILE
2	C1	195	VAL
2	C1	197	LEU
2	C1	200	SER
2	C1	202	LEU
2	C1	203	THR
2	C1	210	PRO
2	C1	214	SER
2	C1	222	VAL
2	C1	223	ASN
2	C2	13	ARG

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Mol	Chain	Res	Type
2	C2	18	VAL
2	C2	22	THR
2	C2	27	GLN
2	C2	29	SER
2	C2	45	SER
2	C2	56	PRO
2	C2	58	LEU
2	C2	73	GLN
2	C2	75	HIS
2	C2	80	ILE
2	C2	84	PRO
2	C2	88	LEU
2	C2	93	SER
2	C2	103	LEU
2	C2	104	VAL
2	C2	110	VAL
2	C2	112	VAL
2	C2	126	VAL
2	C2	134	HIS
2	C2	135	THR
2	C2	150	TYR
2	C2	159	PRO
2	C2	160	HIS
2	C2	162	LEU
2	C2	166	ARG
2	C2	167	THR
2	C2	174	VAL
2	C2	176	PRO
2	C2	178	ILE
2	C2	184	THR
2	C2	186	LEU
2	C2	188	LEU
2	C2	193	THR
2	C2	194	ILE
2	C2	195	VAL
2	C2	197	LEU
2	C2	200	SER
2	C2	202	LEU
2	C2	203	THR
2	C2	210	PRO
2	C2	214	SER
2	C2	222	VAL

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Mol	Chain	Res	Type
2	C2	223	ASN
2	C3	13	ARG
2	C3	18	VAL
2	C3	22	THR
2	C3	27	GLN
2	C3	29	SER
2	C3	45	SER
2	C3	56	PRO
2	C3	58	LEU
2	C3	73	GLN
2	C3	75	HIS
2	C3	80	ILE
2	C3	84	PRO
2	C3	88	LEU
2	C3	93	SER
2	C3	103	LEU
2	C3	104	VAL
2	C3	110	VAL
2	C3	112	VAL
2	C3	126	VAL
2	C3	134	HIS
2	C3	135	THR
2	C3	150	TYR
2	C3	159	PRO
2	C3	160	HIS
2	C3	162	LEU
2	C3	166	ARG
2	C3	167	THR
2	C3	174	VAL
2	C3	176	PRO
2	C3	178	ILE
2	C3	184	THR
2	C3	186	LEU
2	C3	188	LEU
2	C3	193	THR
2	C3	194	ILE
2	C3	195	VAL
2	C3	197	LEU
2	C3	200	SER
2	C3	202	LEU
2	C3	203	THR
2	C3	210	PRO

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Mol	Chain	Res	Type
2	C3	214	SER
2	C3	222	VAL
2	C3	223	ASN
2	C4	13	ARG
2	C4	18	VAL
2	C4	22	THR
2	C4	27	GLN
2	C4	29	SER
2	C4	45	SER
2	C4	56	PRO
2	C4	58	LEU
2	C4	73	GLN
2	C4	75	HIS
2	C4	80	ILE
2	C4	84	PRO
2	C4	88	LEU
2	C4	93	SER
2	C4	103	LEU
2	C4	104	VAL
2	C4	110	VAL
2	C4	112	VAL
2	C4	126	VAL
2	C4	134	HIS
2	C4	135	THR
2	C4	150	TYR
2	C4	159	PRO
2	C4	160	HIS
2	C4	162	LEU
2	C4	166	ARG
2	C4	167	THR
2	C4	174	VAL
2	C4	176	PRO
2	C4	178	ILE
2	C4	184	THR
2	C4	186	LEU
2	C4	188	LEU
2	C4	193	THR
2	C4	194	ILE
2	C4	195	VAL
2	C4	197	LEU
2	C4	200	SER
2	C4	202	LEU

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Mol	Chain	Res	Type
2	C4	203	THR
2	C4	210	PRO
2	C4	214	SER
2	C4	222	VAL
2	C4	223	ASN
2	C5	13	ARG
2	C5	18	VAL
2	C5	22	THR
2	C5	27	GLN
2	C5	29	SER
2	C5	45	SER
2	C5	56	PRO
2	C5	58	LEU
2	C5	73	GLN
2	C5	75	HIS
2	C5	80	ILE
2	C5	84	PRO
2	C5	88	LEU
2	C5	93	SER
2	C5	103	LEU
2	C5	104	VAL
2	C5	110	VAL
2	C5	112	VAL
2	C5	126	VAL
2	C5	134	HIS
2	C5	135	THR
2	C5	150	TYR
2	C5	159	PRO
2	C5	160	HIS
2	C5	162	LEU
2	C5	166	ARG
2	C5	167	THR
2	C5	174	VAL
2	C5	176	PRO
2	C5	178	ILE
2	C5	184	THR
2	C5	186	LEU
2	C5	188	LEU
2	C5	193	THR
2	C5	194	ILE
2	C5	195	VAL
2	C5	197	LEU

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Mol	Chain	Res	Type
2	C5	200	SER
2	C5	202	LEU
2	C5	203	THR
2	C5	210	PRO
2	C5	214	SER
2	C5	222	VAL
2	C5	223	ASN
2	C6	13	ARG
2	C6	18	VAL
2	C6	22	THR
2	C6	27	GLN
2	C6	29	SER
2	C6	45	SER
2	C6	56	PRO
2	C6	58	LEU
2	C6	73	GLN
2	C6	75	HIS
2	C6	80	ILE
2	C6	84	PRO
2	C6	88	LEU
2	C6	93	SER
2	C6	103	LEU
2	C6	104	VAL
2	C6	110	VAL
2	C6	112	VAL
2	C6	126	VAL
2	C6	134	HIS
2	C6	135	THR
2	C6	150	TYR
2	C6	159	PRO
2	C6	160	HIS
2	C6	162	LEU
2	C6	166	ARG
2	C6	167	THR
2	C6	174	VAL
2	C6	176	PRO
2	C6	178	ILE
2	C6	184	THR
2	C6	186	LEU
2	C6	188	LEU
2	C6	193	THR
2	C6	194	ILE

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Mol	Chain	Res	Type
2	C6	195	VAL
2	C6	197	LEU
2	C6	200	SER
2	C6	202	LEU
2	C6	203	THR
2	C6	210	PRO
2	C6	214	SER
2	C6	222	VAL
2	C6	223	ASN
2	C7	13	ARG
2	C7	18	VAL
2	C7	22	THR
2	C7	27	GLN
2	C7	29	SER
2	C7	45	SER
2	C7	56	PRO
2	C7	58	LEU
2	C7	73	GLN
2	C7	75	HIS
2	C7	80	ILE
2	C7	84	PRO
2	C7	88	LEU
2	C7	93	SER
2	C7	103	LEU
2	C7	104	VAL
2	C7	110	VAL
2	C7	112	VAL
2	C7	126	VAL
2	C7	134	HIS
2	C7	135	THR
2	C7	150	TYR
2	C7	159	PRO
2	C7	160	HIS
2	C7	162	LEU
2	C7	166	ARG
2	C7	167	THR
2	C7	174	VAL
2	C7	176	PRO
2	C7	178	ILE
2	C7	184	THR
2	C7	186	LEU
2	C7	188	LEU

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Mol	Chain	Res	Type
2	C7	193	THR
2	C7	194	ILE
2	C7	195	VAL
2	C7	197	LEU
2	C7	200	SER
2	C7	202	LEU
2	C7	203	THR
2	C7	210	PRO
2	C7	214	SER
2	C7	222	VAL
2	C7	223	ASN
2	C8	13	ARG
2	C8	18	VAL
2	C8	22	THR
2	C8	27	GLN
2	C8	29	SER
2	C8	45	SER
2	C8	56	PRO
2	C8	58	LEU
2	C8	73	GLN
2	C8	75	HIS
2	C8	80	ILE
2	C8	84	PRO
2	C8	88	LEU
2	C8	93	SER
2	C8	103	LEU
2	C8	104	VAL
2	C8	110	VAL
2	C8	112	VAL
2	C8	126	VAL
2	C8	134	HIS
2	C8	135	THR
2	C8	150	TYR
2	C8	159	PRO
2	C8	160	HIS
2	C8	162	LEU
2	C8	166	ARG
2	C8	167	THR
2	C8	174	VAL
2	C8	176	PRO
2	C8	178	ILE
2	C8	184	THR

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Mol	Chain	Res	Type
2	C8	186	LEU
2	C8	188	LEU
2	C8	193	THR
2	C8	194	ILE
2	C8	195	VAL
2	C8	197	LEU
2	C8	200	SER
2	C8	202	LEU
2	C8	203	THR
2	C8	210	PRO
2	C8	214	SER
2	C8	222	VAL
2	C8	223	ASN
2	C9	13	ARG
2	C9	18	VAL
2	C9	22	THR
2	C9	27	GLN
2	C9	29	SER
2	C9	45	SER
2	C9	56	PRO
2	C9	58	LEU
2	C9	73	GLN
2	C9	75	HIS
2	C9	80	ILE
2	C9	84	PRO
2	C9	88	LEU
2	C9	93	SER
2	C9	103	LEU
2	C9	104	VAL
2	C9	110	VAL
2	C9	112	VAL
2	C9	126	VAL
2	C9	134	HIS
2	C9	135	THR
2	C9	150	TYR
2	C9	159	PRO
2	C9	160	HIS
2	C9	162	LEU
2	C9	166	ARG
2	C9	167	THR
2	C9	174	VAL
2	C9	176	PRO

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Mol	Chain	Res	Type
2	C9	178	ILE
2	C9	184	THR
2	C9	186	LEU
2	C9	188	LEU
2	C9	193	THR
2	C9	194	ILE
2	C9	195	VAL
2	C9	197	LEU
2	C9	200	SER
2	C9	202	LEU
2	C9	203	THR
2	C9	210	PRO
2	C9	214	SER
2	C9	222	VAL
2	C9	223	ASN
2	CA	13	ARG
2	CA	18	VAL
2	CA	22	THR
2	CA	27	GLN
2	CA	29	SER
2	CA	45	SER
2	CA	56	PRO
2	CA	58	LEU
2	CA	73	GLN
2	CA	75	HIS
2	CA	80	ILE
2	CA	84	PRO
2	CA	88	LEU
2	CA	93	SER
2	CA	103	LEU
2	CA	104	VAL
2	CA	110	VAL
2	CA	112	VAL
2	CA	126	VAL
2	CA	134	HIS
2	CA	135	THR
2	CA	150	TYR
2	CA	159	PRO
2	CA	160	HIS
2	CA	162	LEU
2	CA	166	ARG
2	CA	167	THR

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Mol	Chain	Res	Type
2	CA	174	VAL
2	CA	176	PRO
2	CA	178	ILE
2	CA	184	THR
2	CA	186	LEU
2	CA	188	LEU
2	CA	193	THR
2	CA	194	ILE
2	CA	195	VAL
2	CA	197	LEU
2	CA	200	SER
2	CA	202	LEU
2	CA	203	THR
2	CA	210	PRO
2	CA	214	SER
2	CA	222	VAL
2	CA	223	ASN
2	CB	13	ARG
2	CB	18	VAL
2	CB	22	THR
2	CB	27	GLN
2	CB	29	SER
2	CB	45	SER
2	CB	56	PRO
2	CB	58	LEU
2	CB	73	GLN
2	CB	75	HIS
2	CB	80	ILE
2	CB	84	PRO
2	CB	88	LEU
2	CB	93	SER
2	CB	103	LEU
2	CB	104	VAL
2	CB	110	VAL
2	CB	112	VAL
2	CB	126	VAL
2	CB	134	HIS
2	CB	135	THR
2	CB	150	TYR
2	CB	159	PRO
2	CB	160	HIS
2	CB	162	LEU

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Mol	Chain	Res	Type
2	CB	166	ARG
2	CB	167	THR
2	CB	174	VAL
2	CB	176	PRO
2	CB	178	ILE
2	CB	184	THR
2	CB	186	LEU
2	CB	188	LEU
2	CB	193	THR
2	CB	194	ILE
2	CB	195	VAL
2	CB	197	LEU
2	CB	200	SER
2	CB	202	LEU
2	CB	203	THR
2	CB	210	PRO
2	CB	214	SER
2	CB	222	VAL
2	CB	223	ASN
2	CC	13	ARG
2	CC	18	VAL
2	CC	22	THR
2	CC	27	GLN
2	CC	29	SER
2	CC	45	SER
2	CC	56	PRO
2	CC	58	LEU
2	CC	73	GLN
2	CC	75	HIS
2	CC	80	ILE
2	CC	84	PRO
2	CC	88	LEU
2	CC	93	SER
2	CC	103	LEU
2	CC	104	VAL
2	CC	110	VAL
2	CC	112	VAL
2	CC	126	VAL
2	CC	134	HIS
2	CC	135	THR
2	CC	150	TYR
2	CC	159	PRO

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Mol	Chain	Res	Type
2	CC	160	HIS
2	CC	162	LEU
2	CC	166	ARG
2	CC	167	THR
2	CC	174	VAL
2	CC	176	PRO
2	CC	178	ILE
2	CC	184	THR
2	CC	186	LEU
2	CC	188	LEU
2	CC	193	THR
2	CC	194	ILE
2	CC	195	VAL
2	CC	197	LEU
2	CC	200	SER
2	CC	202	LEU
2	CC	203	THR
2	CC	210	PRO
2	CC	214	SER
2	CC	222	VAL
2	CC	223	ASN
2	CD	13	ARG
2	CD	18	VAL
2	CD	22	THR
2	CD	27	GLN
2	CD	29	SER
2	CD	45	SER
2	CD	56	PRO
2	CD	58	LEU
2	CD	73	GLN
2	CD	75	HIS
2	CD	80	ILE
2	CD	84	PRO
2	CD	88	LEU
2	CD	93	SER
2	CD	103	LEU
2	CD	104	VAL
2	CD	110	VAL
2	CD	112	VAL
2	CD	126	VAL
2	CD	134	HIS
2	CD	135	THR

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Mol	Chain	Res	Type
2	CD	150	TYR
2	CD	159	PRO
2	CD	160	HIS
2	CD	162	LEU
2	CD	166	ARG
2	CD	167	THR
2	CD	174	VAL
2	CD	176	PRO
2	CD	178	ILE
2	CD	184	THR
2	CD	186	LEU
2	CD	188	LEU
2	CD	193	THR
2	CD	194	ILE
2	CD	195	VAL
2	CD	197	LEU
2	CD	200	SER
2	CD	202	LEU
2	CD	203	THR
2	CD	210	PRO
2	CD	214	SER
2	CD	222	VAL
2	CD	223	ASN
2	CE	13	ARG
2	CE	18	VAL
2	CE	22	THR
2	CE	27	GLN
2	CE	29	SER
2	CE	45	SER
2	CE	56	PRO
2	CE	58	LEU
2	CE	73	GLN
2	CE	75	HIS
2	CE	80	ILE
2	CE	84	PRO
2	CE	88	LEU
2	CE	93	SER
2	CE	103	LEU
2	CE	104	VAL
2	CE	110	VAL
2	CE	112	VAL
2	CE	126	VAL

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Mol	Chain	Res	Type
2	CE	134	HIS
2	CE	135	THR
2	CE	150	TYR
2	CE	159	PRO
2	CE	160	HIS
2	CE	162	LEU
2	CE	166	ARG
2	CE	167	THR
2	CE	174	VAL
2	CE	176	PRO
2	CE	178	ILE
2	CE	184	THR
2	CE	186	LEU
2	CE	188	LEU
2	CE	193	THR
2	CE	194	ILE
2	CE	195	VAL
2	CE	197	LEU
2	CE	200	SER
2	CE	202	LEU
2	CE	203	THR
2	CE	210	PRO
2	CE	214	SER
2	CE	222	VAL
2	CE	223	ASN
2	CF	13	ARG
2	CF	18	VAL
2	CF	22	THR
2	CF	27	GLN
2	CF	29	SER
2	CF	45	SER
2	CF	56	PRO
2	CF	58	LEU
2	CF	73	GLN
2	CF	75	HIS
2	CF	80	ILE
2	CF	84	PRO
2	CF	88	LEU
2	CF	93	SER
2	CF	103	LEU
2	CF	104	VAL
2	CF	110	VAL

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Mol	Chain	Res	Type
2	CF	112	VAL
2	CF	126	VAL
2	CF	134	HIS
2	CF	135	THR
2	CF	150	TYR
2	CF	159	PRO
2	CF	160	HIS
2	CF	162	LEU
2	CF	166	ARG
2	CF	167	THR
2	CF	174	VAL
2	CF	176	PRO
2	CF	178	ILE
2	CF	184	THR
2	CF	186	LEU
2	CF	188	LEU
2	CF	193	THR
2	CF	194	ILE
2	CF	195	VAL
2	CF	197	LEU
2	CF	200	SER
2	CF	202	LEU
2	CF	203	THR
2	CF	210	PRO
2	CF	214	SER
2	CF	222	VAL
2	CF	223	ASN
2	CG	13	ARG
2	CG	18	VAL
2	CG	22	THR
2	CG	27	GLN
2	CG	29	SER
2	CG	45	SER
2	CG	56	PRO
2	CG	58	LEU
2	CG	73	GLN
2	CG	75	HIS
2	CG	80	ILE
2	CG	84	PRO
2	CG	88	LEU
2	CG	93	SER
2	CG	103	LEU

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Mol	Chain	Res	Type
2	CG	104	VAL
2	CG	110	VAL
2	CG	112	VAL
2	CG	126	VAL
2	CG	134	HIS
2	CG	135	THR
2	CG	150	TYR
2	CG	159	PRO
2	CG	160	HIS
2	CG	162	LEU
2	CG	166	ARG
2	CG	167	THR
2	CG	174	VAL
2	CG	176	PRO
2	CG	178	ILE
2	CG	184	THR
2	CG	186	LEU
2	CG	188	LEU
2	CG	193	THR
2	CG	194	ILE
2	CG	195	VAL
2	CG	197	LEU
2	CG	200	SER
2	CG	202	LEU
2	CG	203	THR
2	CG	210	PRO
2	CG	214	SER
2	CG	222	VAL
2	CG	223	ASN
2	CH	13	ARG
2	CH	18	VAL
2	CH	22	THR
2	CH	27	GLN
2	CH	29	SER
2	CH	45	SER
2	CH	56	PRO
2	CH	58	LEU
2	CH	73	GLN
2	CH	75	HIS
2	CH	80	ILE
2	CH	84	PRO
2	CH	88	LEU

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Mol	Chain	Res	Type
2	CH	93	SER
2	CH	103	LEU
2	CH	104	VAL
2	CH	110	VAL
2	CH	112	VAL
2	CH	126	VAL
2	CH	134	HIS
2	CH	135	THR
2	CH	150	TYR
2	CH	159	PRO
2	CH	160	HIS
2	CH	162	LEU
2	CH	166	ARG
2	CH	167	THR
2	CH	174	VAL
2	CH	176	PRO
2	CH	178	ILE
2	CH	184	THR
2	CH	186	LEU
2	CH	188	LEU
2	CH	193	THR
2	CH	194	ILE
2	CH	195	VAL
2	CH	197	LEU
2	CH	200	SER
2	CH	202	LEU
2	CH	203	THR
2	CH	210	PRO
2	CH	214	SER
2	CH	222	VAL
2	CH	223	ASN
2	CI	13	ARG
2	CI	18	VAL
2	CI	22	THR
2	CI	27	GLN
2	CI	29	SER
2	CI	45	SER
2	CI	56	PRO
2	CI	58	LEU
2	CI	73	GLN
2	CI	75	HIS
2	CI	80	ILE

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Mol	Chain	Res	Type
2	CI	84	PRO
2	CI	88	LEU
2	CI	93	SER
2	CI	103	LEU
2	CI	104	VAL
2	CI	110	VAL
2	CI	112	VAL
2	CI	126	VAL
2	CI	134	HIS
2	CI	135	THR
2	CI	150	TYR
2	CI	159	PRO
2	CI	160	HIS
2	CI	162	LEU
2	CI	166	ARG
2	CI	167	THR
2	CI	174	VAL
2	CI	176	PRO
2	CI	178	ILE
2	CI	184	THR
2	CI	186	LEU
2	CI	188	LEU
2	CI	193	THR
2	CI	194	ILE
2	CI	195	VAL
2	CI	197	LEU
2	CI	200	SER
2	CI	202	LEU
2	CI	203	THR
2	CI	210	PRO
2	CI	214	SER
2	CI	222	VAL
2	CI	223	ASN
2	CJ	13	ARG
2	CJ	18	VAL
2	CJ	22	THR
2	CJ	27	GLN
2	CJ	29	SER
2	CJ	45	SER
2	CJ	56	PRO
2	CJ	58	LEU
2	CJ	73	GLN

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Mol	Chain	Res	Type
2	CJ	75	HIS
2	CJ	80	ILE
2	CJ	84	PRO
2	CJ	88	LEU
2	CJ	93	SER
2	CJ	103	LEU
2	CJ	104	VAL
2	CJ	110	VAL
2	CJ	112	VAL
2	CJ	126	VAL
2	CJ	134	HIS
2	CJ	135	THR
2	CJ	150	TYR
2	CJ	159	PRO
2	CJ	160	HIS
2	CJ	162	LEU
2	CJ	166	ARG
2	CJ	167	THR
2	CJ	174	VAL
2	CJ	176	PRO
2	CJ	178	ILE
2	CJ	184	THR
2	CJ	186	LEU
2	CJ	188	LEU
2	CJ	193	THR
2	CJ	194	ILE
2	CJ	195	VAL
2	CJ	197	LEU
2	CJ	200	SER
2	CJ	202	LEU
2	CJ	203	THR
2	CJ	210	PRO
2	CJ	214	SER
2	CJ	222	VAL
2	CJ	223	ASN
2	CK	13	ARG
2	CK	18	VAL
2	CK	22	THR
2	CK	27	GLN
2	CK	29	SER
2	CK	45	SER
2	CK	56	PRO

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Mol	Chain	Res	Type
2	CK	58	LEU
2	CK	73	GLN
2	CK	75	HIS
2	CK	80	ILE
2	CK	84	PRO
2	CK	88	LEU
2	CK	93	SER
2	CK	103	LEU
2	CK	104	VAL
2	CK	110	VAL
2	CK	112	VAL
2	CK	126	VAL
2	CK	134	HIS
2	CK	135	THR
2	CK	150	TYR
2	CK	159	PRO
2	CK	160	HIS
2	CK	162	LEU
2	CK	166	ARG
2	CK	167	THR
2	CK	174	VAL
2	CK	176	PRO
2	CK	178	ILE
2	CK	184	THR
2	CK	186	LEU
2	CK	188	LEU
2	CK	193	THR
2	CK	194	ILE
2	CK	195	VAL
2	CK	197	LEU
2	CK	200	SER
2	CK	202	LEU
2	CK	203	THR
2	CK	210	PRO
2	CK	214	SER
2	CK	222	VAL
2	CK	223	ASN
2	CL	13	ARG
2	CL	18	VAL
2	CL	22	THR
2	CL	27	GLN
2	CL	29	SER

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Mol	Chain	Res	Type
2	CL	45	SER
2	CL	56	PRO
2	CL	58	LEU
2	CL	73	GLN
2	CL	75	HIS
2	CL	80	ILE
2	CL	84	PRO
2	CL	88	LEU
2	CL	93	SER
2	CL	103	LEU
2	CL	104	VAL
2	CL	110	VAL
2	CL	112	VAL
2	CL	126	VAL
2	CL	134	HIS
2	CL	135	THR
2	CL	150	TYR
2	CL	159	PRO
2	CL	160	HIS
2	CL	162	LEU
2	CL	166	ARG
2	CL	167	THR
2	CL	174	VAL
2	CL	176	PRO
2	CL	178	ILE
2	CL	184	THR
2	CL	186	LEU
2	CL	188	LEU
2	CL	193	THR
2	CL	194	ILE
2	CL	195	VAL
2	CL	197	LEU
2	CL	200	SER
2	CL	202	LEU
2	CL	203	THR
2	CL	210	PRO
2	CL	214	SER
2	CL	222	VAL
2	CL	223	ASN
2	CM	13	ARG
2	CM	18	VAL
2	CM	22	THR

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Mol	Chain	Res	Type
2	CM	27	GLN
2	CM	29	SER
2	CM	45	SER
2	CM	56	PRO
2	CM	58	LEU
2	CM	73	GLN
2	CM	75	HIS
2	CM	80	ILE
2	CM	84	PRO
2	CM	88	LEU
2	CM	93	SER
2	CM	103	LEU
2	CM	104	VAL
2	CM	110	VAL
2	CM	112	VAL
2	CM	126	VAL
2	CM	134	HIS
2	CM	135	THR
2	CM	150	TYR
2	CM	159	PRO
2	CM	160	HIS
2	CM	162	LEU
2	CM	166	ARG
2	CM	167	THR
2	CM	174	VAL
2	CM	176	PRO
2	CM	178	ILE
2	CM	184	THR
2	CM	186	LEU
2	CM	188	LEU
2	CM	193	THR
2	CM	194	ILE
2	CM	195	VAL
2	CM	197	LEU
2	CM	200	SER
2	CM	202	LEU
2	CM	203	THR
2	CM	210	PRO
2	CM	214	SER
2	CM	222	VAL
2	CM	223	ASN
2	CN	13	ARG

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Mol	Chain	Res	Type
2	CN	18	VAL
2	CN	22	THR
2	CN	27	GLN
2	CN	29	SER
2	CN	45	SER
2	CN	56	PRO
2	CN	58	LEU
2	CN	73	GLN
2	CN	75	HIS
2	CN	80	ILE
2	CN	84	PRO
2	CN	88	LEU
2	CN	93	SER
2	CN	103	LEU
2	CN	104	VAL
2	CN	110	VAL
2	CN	112	VAL
2	CN	126	VAL
2	CN	134	HIS
2	CN	135	THR
2	CN	150	TYR
2	CN	159	PRO
2	CN	160	HIS
2	CN	162	LEU
2	CN	166	ARG
2	CN	167	THR
2	CN	174	VAL
2	CN	176	PRO
2	CN	178	ILE
2	CN	184	THR
2	CN	186	LEU
2	CN	188	LEU
2	CN	193	THR
2	CN	194	ILE
2	CN	195	VAL
2	CN	197	LEU
2	CN	200	SER
2	CN	202	LEU
2	CN	203	THR
2	CN	210	PRO
2	CN	214	SER
2	CN	222	VAL

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Mol	Chain	Res	Type
2	CN	223	ASN
2	CO	13	ARG
2	CO	18	VAL
2	CO	22	THR
2	CO	27	GLN
2	CO	29	SER
2	CO	45	SER
2	CO	56	PRO
2	CO	58	LEU
2	CO	73	GLN
2	CO	75	HIS
2	CO	80	ILE
2	CO	84	PRO
2	CO	88	LEU
2	CO	93	SER
2	CO	103	LEU
2	CO	104	VAL
2	CO	110	VAL
2	CO	112	VAL
2	CO	126	VAL
2	CO	134	HIS
2	CO	135	THR
2	CO	150	TYR
2	CO	159	PRO
2	CO	160	HIS
2	CO	162	LEU
2	CO	166	ARG
2	CO	167	THR
2	CO	174	VAL
2	CO	176	PRO
2	CO	178	ILE
2	CO	184	THR
2	CO	186	LEU
2	CO	188	LEU
2	CO	193	THR
2	CO	194	ILE
2	CO	195	VAL
2	CO	197	LEU
2	CO	200	SER
2	CO	202	LEU
2	CO	203	THR
2	CO	210	PRO

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Mol	Chain	Res	Type
2	CO	214	SER
2	CO	222	VAL
2	CO	223	ASN
2	CP	13	ARG
2	CP	18	VAL
2	CP	22	THR
2	CP	27	GLN
2	CP	29	SER
2	CP	45	SER
2	CP	56	PRO
2	CP	58	LEU
2	CP	73	GLN
2	CP	75	HIS
2	CP	80	ILE
2	CP	84	PRO
2	CP	88	LEU
2	CP	93	SER
2	CP	103	LEU
2	CP	104	VAL
2	CP	110	VAL
2	CP	112	VAL
2	CP	126	VAL
2	CP	134	HIS
2	CP	135	THR
2	CP	150	TYR
2	CP	159	PRO
2	CP	160	HIS
2	CP	162	LEU
2	CP	166	ARG
2	CP	167	THR
2	CP	174	VAL
2	CP	176	PRO
2	CP	178	ILE
2	CP	184	THR
2	CP	186	LEU
2	CP	188	LEU
2	CP	193	THR
2	CP	194	ILE
2	CP	195	VAL
2	CP	197	LEU
2	CP	200	SER
2	CP	202	LEU

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Mol	Chain	Res	Type
2	CP	203	THR
2	CP	210	PRO
2	CP	214	SER
2	CP	222	VAL
2	CP	223	ASN
2	CQ	13	ARG
2	CQ	18	VAL
2	CQ	22	THR
2	CQ	27	GLN
2	CQ	29	SER
2	CQ	45	SER
2	CQ	56	PRO
2	CQ	58	LEU
2	CQ	73	GLN
2	CQ	75	HIS
2	CQ	80	ILE
2	CQ	84	PRO
2	CQ	88	LEU
2	CQ	93	SER
2	CQ	103	LEU
2	CQ	104	VAL
2	CQ	110	VAL
2	CQ	112	VAL
2	CQ	126	VAL
2	CQ	134	HIS
2	CQ	135	THR
2	CQ	150	TYR
2	CQ	159	PRO
2	CQ	160	HIS
2	CQ	162	LEU
2	CQ	166	ARG
2	CQ	167	THR
2	CQ	174	VAL
2	CQ	176	PRO
2	CQ	178	ILE
2	CQ	184	THR
2	CQ	186	LEU
2	CQ	188	LEU
2	CQ	193	THR
2	CQ	194	ILE
2	CQ	195	VAL
2	CQ	197	LEU

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Mol	Chain	Res	Type
2	CQ	200	SER
2	CQ	202	LEU
2	CQ	203	THR
2	CQ	210	PRO
2	CQ	214	SER
2	CQ	222	VAL
2	CQ	223	ASN
2	CR	13	ARG
2	CR	18	VAL
2	CR	22	THR
2	CR	27	GLN
2	CR	29	SER
2	CR	45	SER
2	CR	56	PRO
2	CR	58	LEU
2	CR	73	GLN
2	CR	75	HIS
2	CR	80	ILE
2	CR	84	PRO
2	CR	88	LEU
2	CR	93	SER
2	CR	103	LEU
2	CR	104	VAL
2	CR	110	VAL
2	CR	112	VAL
2	CR	126	VAL
2	CR	134	HIS
2	CR	135	THR
2	CR	150	TYR
2	CR	159	PRO
2	CR	160	HIS
2	CR	162	LEU
2	CR	166	ARG
2	CR	167	THR
2	CR	174	VAL
2	CR	176	PRO
2	CR	178	ILE
2	CR	184	THR
2	CR	186	LEU
2	CR	188	LEU
2	CR	193	THR
2	CR	194	ILE

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Mol	Chain	Res	Type
2	CR	195	VAL
2	CR	197	LEU
2	CR	200	SER
2	CR	202	LEU
2	CR	203	THR
2	CR	210	PRO
2	CR	214	SER
2	CR	222	VAL
2	CR	223	ASN
2	CS	13	ARG
2	CS	18	VAL
2	CS	22	THR
2	CS	27	GLN
2	CS	29	SER
2	CS	45	SER
2	CS	56	PRO
2	CS	58	LEU
2	CS	73	GLN
2	CS	75	HIS
2	CS	80	ILE
2	CS	84	PRO
2	CS	88	LEU
2	CS	93	SER
2	CS	103	LEU
2	CS	104	VAL
2	CS	110	VAL
2	CS	112	VAL
2	CS	126	VAL
2	CS	134	HIS
2	CS	135	THR
2	CS	150	TYR
2	CS	159	PRO
2	CS	160	HIS
2	CS	162	LEU
2	CS	166	ARG
2	CS	167	THR
2	CS	174	VAL
2	CS	176	PRO
2	CS	178	ILE
2	CS	184	THR
2	CS	186	LEU
2	CS	188	LEU

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Mol	Chain	Res	Type
2	CS	193	THR
2	CS	194	ILE
2	CS	195	VAL
2	CS	197	LEU
2	CS	200	SER
2	CS	202	LEU
2	CS	203	THR
2	CS	210	PRO
2	CS	214	SER
2	CS	222	VAL
2	CS	223	ASN
2	CT	13	ARG
2	CT	18	VAL
2	CT	22	THR
2	CT	27	GLN
2	CT	29	SER
2	CT	45	SER
2	CT	56	PRO
2	CT	58	LEU
2	CT	73	GLN
2	CT	75	HIS
2	CT	80	ILE
2	CT	84	PRO
2	CT	88	LEU
2	CT	93	SER
2	CT	103	LEU
2	CT	104	VAL
2	CT	110	VAL
2	CT	112	VAL
2	CT	126	VAL
2	CT	134	HIS
2	CT	135	THR
2	CT	150	TYR
2	CT	159	PRO
2	CT	160	HIS
2	CT	162	LEU
2	CT	166	ARG
2	CT	167	THR
2	CT	174	VAL
2	CT	176	PRO
2	CT	178	ILE
2	CT	184	THR

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Mol	Chain	Res	Type
2	CT	186	LEU
2	CT	188	LEU
2	CT	193	THR
2	CT	194	ILE
2	CT	195	VAL
2	CT	197	LEU
2	CT	200	SER
2	CT	202	LEU
2	CT	203	THR
2	CT	210	PRO
2	CT	214	SER
2	CT	222	VAL
2	CT	223	ASN
2	CU	13	ARG
2	CU	18	VAL
2	CU	22	THR
2	CU	27	GLN
2	CU	29	SER
2	CU	45	SER
2	CU	56	PRO
2	CU	58	LEU
2	CU	73	GLN
2	CU	75	HIS
2	CU	80	ILE
2	CU	84	PRO
2	CU	88	LEU
2	CU	93	SER
2	CU	103	LEU
2	CU	104	VAL
2	CU	110	VAL
2	CU	112	VAL
2	CU	126	VAL
2	CU	134	HIS
2	CU	135	THR
2	CU	150	TYR
2	CU	159	PRO
2	CU	160	HIS
2	CU	162	LEU
2	CU	166	ARG
2	CU	167	THR
2	CU	174	VAL
2	CU	176	PRO

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Mol	Chain	Res	Type
2	CU	178	ILE
2	CU	184	THR
2	CU	186	LEU
2	CU	188	LEU
2	CU	193	THR
2	CU	194	ILE
2	CU	195	VAL
2	CU	197	LEU
2	CU	200	SER
2	CU	202	LEU
2	CU	203	THR
2	CU	210	PRO
2	CU	214	SER
2	CU	222	VAL
2	CU	223	ASN
2	CV	13	ARG
2	CV	18	VAL
2	CV	22	THR
2	CV	27	GLN
2	CV	29	SER
2	CV	45	SER
2	CV	56	PRO
2	CV	58	LEU
2	CV	73	GLN
2	CV	75	HIS
2	CV	80	ILE
2	CV	84	PRO
2	CV	88	LEU
2	CV	93	SER
2	CV	103	LEU
2	CV	104	VAL
2	CV	110	VAL
2	CV	112	VAL
2	CV	126	VAL
2	CV	134	HIS
2	CV	135	THR
2	CV	150	TYR
2	CV	159	PRO
2	CV	160	HIS
2	CV	162	LEU
2	CV	166	ARG
2	CV	167	THR

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Mol	Chain	Res	Type
2	CV	174	VAL
2	CV	176	PRO
2	CV	178	ILE
2	CV	184	THR
2	CV	186	LEU
2	CV	188	LEU
2	CV	193	THR
2	CV	194	ILE
2	CV	195	VAL
2	CV	197	LEU
2	CV	200	SER
2	CV	202	LEU
2	CV	203	THR
2	CV	210	PRO
2	CV	214	SER
2	CV	222	VAL
2	CV	223	ASN
2	CW	13	ARG
2	CW	18	VAL
2	CW	22	THR
2	CW	27	GLN
2	CW	29	SER
2	CW	45	SER
2	CW	56	PRO
2	CW	58	LEU
2	CW	73	GLN
2	CW	75	HIS
2	CW	80	ILE
2	CW	84	PRO
2	CW	88	LEU
2	CW	93	SER
2	CW	103	LEU
2	CW	104	VAL
2	CW	110	VAL
2	CW	112	VAL
2	CW	126	VAL
2	CW	134	HIS
2	CW	135	THR
2	CW	150	TYR
2	CW	159	PRO
2	CW	160	HIS
2	CW	162	LEU

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Mol	Chain	Res	Type
2	CW	166	ARG
2	CW	167	THR
2	CW	174	VAL
2	CW	176	PRO
2	CW	178	ILE
2	CW	184	THR
2	CW	186	LEU
2	CW	188	LEU
2	CW	193	THR
2	CW	194	ILE
2	CW	195	VAL
2	CW	197	LEU
2	CW	200	SER
2	CW	202	LEU
2	CW	203	THR
2	CW	210	PRO
2	CW	214	SER
2	CW	222	VAL
2	CW	223	ASN
2	CX	13	ARG
2	CX	18	VAL
2	CX	22	THR
2	CX	27	GLN
2	CX	29	SER
2	CX	45	SER
2	CX	56	PRO
2	CX	58	LEU
2	CX	73	GLN
2	CX	75	HIS
2	CX	80	ILE
2	CX	84	PRO
2	CX	88	LEU
2	CX	93	SER
2	CX	103	LEU
2	CX	104	VAL
2	CX	110	VAL
2	CX	112	VAL
2	CX	126	VAL
2	CX	134	HIS
2	CX	135	THR
2	CX	150	TYR
2	CX	159	PRO

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Mol	Chain	Res	Type
2	CX	160	HIS
2	CX	162	LEU
2	CX	166	ARG
2	CX	167	THR
2	CX	174	VAL
2	CX	176	PRO
2	CX	178	ILE
2	CX	184	THR
2	CX	186	LEU
2	CX	188	LEU
2	CX	193	THR
2	CX	194	ILE
2	CX	195	VAL
2	CX	197	LEU
2	CX	200	SER
2	CX	202	LEU
2	CX	203	THR
2	CX	210	PRO
2	CX	214	SER
2	CX	222	VAL
2	CX	223	ASN
2	CY	13	ARG
2	CY	18	VAL
2	CY	22	THR
2	CY	27	GLN
2	CY	29	SER
2	CY	45	SER
2	CY	56	PRO
2	CY	58	LEU
2	CY	73	GLN
2	CY	75	HIS
2	CY	80	ILE
2	CY	84	PRO
2	CY	88	LEU
2	CY	93	SER
2	CY	103	LEU
2	CY	104	VAL
2	CY	110	VAL
2	CY	112	VAL
2	CY	126	VAL
2	CY	134	HIS
2	CY	135	THR

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Mol	Chain	Res	Type
2	CY	150	TYR
2	CY	159	PRO
2	CY	160	HIS
2	CY	162	LEU
2	CY	166	ARG
2	CY	167	THR
2	CY	174	VAL
2	CY	176	PRO
2	CY	178	ILE
2	CY	184	THR
2	CY	186	LEU
2	CY	188	LEU
2	CY	193	THR
2	CY	194	ILE
2	CY	195	VAL
2	CY	197	LEU
2	CY	200	SER
2	CY	202	LEU
2	CY	203	THR
2	CY	210	PRO
2	CY	214	SER
2	CY	222	VAL
2	CY	223	ASN
2	CZ	13	ARG
2	CZ	18	VAL
2	CZ	22	THR
2	CZ	27	GLN
2	CZ	29	SER
2	CZ	45	SER
2	CZ	56	PRO
2	CZ	58	LEU
2	CZ	73	GLN
2	CZ	75	HIS
2	CZ	80	ILE
2	CZ	84	PRO
2	CZ	88	LEU
2	CZ	93	SER
2	CZ	103	LEU
2	CZ	104	VAL
2	CZ	110	VAL
2	CZ	112	VAL
2	CZ	126	VAL

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Mol	Chain	Res	Type
2	CZ	134	HIS
2	CZ	135	THR
2	CZ	150	TYR
2	CZ	159	PRO
2	CZ	160	HIS
2	CZ	162	LEU
2	CZ	166	ARG
2	CZ	167	THR
2	CZ	174	VAL
2	CZ	176	PRO
2	CZ	178	ILE
2	CZ	184	THR
2	CZ	186	LEU
2	CZ	188	LEU
2	CZ	193	THR
2	CZ	194	ILE
2	CZ	195	VAL
2	CZ	197	LEU
2	CZ	200	SER
2	CZ	202	LEU
2	CZ	203	THR
2	CZ	210	PRO
2	CZ	214	SER
2	CZ	222	VAL
2	CZ	223	ASN
2	Ca	13	ARG
2	Ca	18	VAL
2	Ca	22	THR
2	Ca	27	GLN
2	Ca	29	SER
2	Ca	45	SER
2	Ca	56	PRO
2	Ca	58	LEU
2	Ca	73	GLN
2	Ca	75	HIS
2	Ca	80	ILE
2	Ca	84	PRO
2	Ca	88	LEU
2	Ca	93	SER
2	Ca	103	LEU
2	Ca	104	VAL
2	Ca	110	VAL

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Mol	Chain	Res	Type
2	Ca	112	VAL
2	Ca	126	VAL
2	Ca	134	HIS
2	Ca	135	THR
2	Ca	150	TYR
2	Ca	159	PRO
2	Ca	160	HIS
2	Ca	162	LEU
2	Ca	166	ARG
2	Ca	167	THR
2	Ca	174	VAL
2	Ca	176	PRO
2	Ca	178	ILE
2	Ca	184	THR
2	Ca	186	LEU
2	Ca	188	LEU
2	Ca	193	THR
2	Ca	194	ILE
2	Ca	195	VAL
2	Ca	197	LEU
2	Ca	200	SER
2	Ca	202	LEU
2	Ca	203	THR
2	Ca	210	PRO
2	Ca	214	SER
2	Ca	222	VAL
2	Ca	223	ASN
2	Cb	13	ARG
2	Cb	18	VAL
2	Cb	22	THR
2	Cb	27	GLN
2	Cb	29	SER
2	Cb	45	SER
2	Cb	56	PRO
2	Cb	58	LEU
2	Cb	73	GLN
2	Cb	75	HIS
2	Cb	80	ILE
2	Cb	84	PRO
2	Cb	88	LEU
2	Cb	93	SER
2	Cb	103	LEU

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Mol	Chain	Res	Type
2	Cb	104	VAL
2	Cb	110	VAL
2	Cb	112	VAL
2	Cb	126	VAL
2	Cb	134	HIS
2	Cb	135	THR
2	Cb	150	TYR
2	Cb	159	PRO
2	Cb	160	HIS
2	Cb	162	LEU
2	Cb	166	ARG
2	Cb	167	THR
2	Cb	174	VAL
2	Cb	176	PRO
2	Cb	178	ILE
2	Cb	184	THR
2	Cb	186	LEU
2	Cb	188	LEU
2	Cb	193	THR
2	Cb	194	ILE
2	Cb	195	VAL
2	Cb	197	LEU
2	Cb	200	SER
2	Cb	202	LEU
2	Cb	203	THR
2	Cb	210	PRO
2	Cb	214	SER
2	Cb	222	VAL
2	Cb	223	ASN
2	Cc	13	ARG
2	Cc	18	VAL
2	Cc	22	THR
2	Cc	27	GLN
2	Cc	29	SER
2	Cc	45	SER
2	Cc	56	PRO
2	Cc	58	LEU
2	Cc	73	GLN
2	Cc	75	HIS
2	Cc	80	ILE
2	Cc	84	PRO
2	Cc	88	LEU

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Mol	Chain	Res	Type
2	Cc	93	SER
2	Cc	103	LEU
2	Cc	104	VAL
2	Cc	110	VAL
2	Cc	112	VAL
2	Cc	126	VAL
2	Cc	134	HIS
2	Cc	135	THR
2	Cc	150	TYR
2	Cc	159	PRO
2	Cc	160	HIS
2	Cc	162	LEU
2	Cc	166	ARG
2	Cc	167	THR
2	Cc	174	VAL
2	Cc	176	PRO
2	Cc	178	ILE
2	Cc	184	THR
2	Cc	186	LEU
2	Cc	188	LEU
2	Cc	193	THR
2	Cc	194	ILE
2	Cc	195	VAL
2	Cc	197	LEU
2	Cc	200	SER
2	Cc	202	LEU
2	Cc	203	THR
2	Cc	210	PRO
2	Cc	214	SER
2	Cc	222	VAL
2	Cc	223	ASN
2	Cd	13	ARG
2	Cd	18	VAL
2	Cd	22	THR
2	Cd	27	GLN
2	Cd	29	SER
2	Cd	45	SER
2	Cd	56	PRO
2	Cd	58	LEU
2	Cd	73	GLN
2	Cd	75	HIS
2	Cd	80	ILE

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Mol	Chain	Res	Type
2	Cd	84	PRO
2	Cd	88	LEU
2	Cd	93	SER
2	Cd	103	LEU
2	Cd	104	VAL
2	Cd	110	VAL
2	Cd	112	VAL
2	Cd	126	VAL
2	Cd	134	HIS
2	Cd	135	THR
2	Cd	150	TYR
2	Cd	159	PRO
2	Cd	160	HIS
2	Cd	162	LEU
2	Cd	166	ARG
2	Cd	167	THR
2	Cd	174	VAL
2	Cd	176	PRO
2	Cd	178	ILE
2	Cd	184	THR
2	Cd	186	LEU
2	Cd	188	LEU
2	Cd	193	THR
2	Cd	194	ILE
2	Cd	195	VAL
2	Cd	197	LEU
2	Cd	200	SER
2	Cd	202	LEU
2	Cd	203	THR
2	Cd	210	PRO
2	Cd	214	SER
2	Cd	222	VAL
2	Cd	223	ASN
2	Ce	13	ARG
2	Ce	18	VAL
2	Ce	22	THR
2	Ce	27	GLN
2	Ce	29	SER
2	Ce	45	SER
2	Ce	56	PRO
2	Ce	58	LEU
2	Ce	73	GLN

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Mol	Chain	Res	Type
2	Ce	75	HIS
2	Ce	80	ILE
2	Ce	84	PRO
2	Ce	88	LEU
2	Ce	93	SER
2	Ce	103	LEU
2	Ce	104	VAL
2	Ce	110	VAL
2	Ce	112	VAL
2	Ce	126	VAL
2	Ce	134	HIS
2	Ce	135	THR
2	Ce	150	TYR
2	Ce	159	PRO
2	Ce	160	HIS
2	Ce	162	LEU
2	Ce	166	ARG
2	Ce	167	THR
2	Ce	174	VAL
2	Ce	176	PRO
2	Ce	178	ILE
2	Ce	184	THR
2	Ce	186	LEU
2	Ce	188	LEU
2	Ce	193	THR
2	Ce	194	ILE
2	Ce	195	VAL
2	Ce	197	LEU
2	Ce	200	SER
2	Ce	202	LEU
2	Ce	203	THR
2	Ce	210	PRO
2	Ce	214	SER
2	Ce	222	VAL
2	Ce	223	ASN
2	Cf	13	ARG
2	Cf	18	VAL
2	Cf	22	THR
2	Cf	27	GLN
2	Cf	29	SER
2	Cf	45	SER
2	Cf	56	PRO

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Mol	Chain	Res	Type
2	Cf	58	LEU
2	Cf	73	GLN
2	Cf	75	HIS
2	Cf	80	ILE
2	Cf	84	PRO
2	Cf	88	LEU
2	Cf	93	SER
2	Cf	103	LEU
2	Cf	104	VAL
2	Cf	110	VAL
2	Cf	112	VAL
2	Cf	126	VAL
2	Cf	134	HIS
2	Cf	135	THR
2	Cf	150	TYR
2	Cf	159	PRO
2	Cf	160	HIS
2	Cf	162	LEU
2	Cf	166	ARG
2	Cf	167	THR
2	Cf	174	VAL
2	Cf	176	PRO
2	Cf	178	ILE
2	Cf	184	THR
2	Cf	186	LEU
2	Cf	188	LEU
2	Cf	193	THR
2	Cf	194	ILE
2	Cf	195	VAL
2	Cf	197	LEU
2	Cf	200	SER
2	Cf	202	LEU
2	Cf	203	THR
2	Cf	210	PRO
2	Cf	214	SER
2	Cf	222	VAL
2	Cf	223	ASN
2	Cg	13	ARG
2	Cg	18	VAL
2	Cg	22	THR
2	Cg	27	GLN
2	Cg	29	SER

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Mol	Chain	Res	Type
2	Cg	45	SER
2	Cg	56	PRO
2	Cg	58	LEU
2	Cg	73	GLN
2	Cg	75	HIS
2	Cg	80	ILE
2	Cg	84	PRO
2	Cg	88	LEU
2	Cg	93	SER
2	Cg	103	LEU
2	Cg	104	VAL
2	Cg	110	VAL
2	Cg	112	VAL
2	Cg	126	VAL
2	Cg	134	HIS
2	Cg	135	THR
2	Cg	150	TYR
2	Cg	159	PRO
2	Cg	160	HIS
2	Cg	162	LEU
2	Cg	166	ARG
2	Cg	167	THR
2	Cg	174	VAL
2	Cg	176	PRO
2	Cg	178	ILE
2	Cg	184	THR
2	Cg	186	LEU
2	Cg	188	LEU
2	Cg	193	THR
2	Cg	194	ILE
2	Cg	195	VAL
2	Cg	197	LEU
2	Cg	200	SER
2	Cg	202	LEU
2	Cg	203	THR
2	Cg	210	PRO
2	Cg	214	SER
2	Cg	222	VAL
2	Cg	223	ASN
2	Ch	13	ARG
2	Ch	18	VAL
2	Ch	22	THR

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Mol	Chain	Res	Type
2	Ch	27	GLN
2	Ch	29	SER
2	Ch	45	SER
2	Ch	56	PRO
2	Ch	58	LEU
2	Ch	73	GLN
2	Ch	75	HIS
2	Ch	80	ILE
2	Ch	84	PRO
2	Ch	88	LEU
2	Ch	93	SER
2	Ch	103	LEU
2	Ch	104	VAL
2	Ch	110	VAL
2	Ch	112	VAL
2	Ch	126	VAL
2	Ch	134	HIS
2	Ch	135	THR
2	Ch	150	TYR
2	Ch	159	PRO
2	Ch	160	HIS
2	Ch	162	LEU
2	Ch	166	ARG
2	Ch	167	THR
2	Ch	174	VAL
2	Ch	176	PRO
2	Ch	178	ILE
2	Ch	184	THR
2	Ch	186	LEU
2	Ch	188	LEU
2	Ch	193	THR
2	Ch	194	ILE
2	Ch	195	VAL
2	Ch	197	LEU
2	Ch	200	SER
2	Ch	202	LEU
2	Ch	203	THR
2	Ch	210	PRO
2	Ch	214	SER
2	Ch	222	VAL
2	Ch	223	ASN
2	Ci	13	ARG

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Mol	Chain	Res	Type
2	Ci	18	VAL
2	Ci	22	THR
2	Ci	27	GLN
2	Ci	29	SER
2	Ci	45	SER
2	Ci	56	PRO
2	Ci	58	LEU
2	Ci	73	GLN
2	Ci	75	HIS
2	Ci	80	ILE
2	Ci	84	PRO
2	Ci	88	LEU
2	Ci	93	SER
2	Ci	103	LEU
2	Ci	104	VAL
2	Ci	110	VAL
2	Ci	112	VAL
2	Ci	126	VAL
2	Ci	134	HIS
2	Ci	135	THR
2	Ci	150	TYR
2	Ci	159	PRO
2	Ci	160	HIS
2	Ci	162	LEU
2	Ci	166	ARG
2	Ci	167	THR
2	Ci	174	VAL
2	Ci	176	PRO
2	Ci	178	ILE
2	Ci	184	THR
2	Ci	186	LEU
2	Ci	188	LEU
2	Ci	193	THR
2	Ci	194	ILE
2	Ci	195	VAL
2	Ci	197	LEU
2	Ci	200	SER
2	Ci	202	LEU
2	Ci	203	THR
2	Ci	210	PRO
2	Ci	214	SER
2	Ci	222	VAL

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Mol	Chain	Res	Type
2	Ci	223	ASN
2	Cj	13	ARG
2	Cj	18	VAL
2	Cj	22	THR
2	Cj	27	GLN
2	Cj	29	SER
2	Cj	45	SER
2	Cj	56	PRO
2	Cj	58	LEU
2	Cj	73	GLN
2	Cj	75	HIS
2	Cj	80	ILE
2	Cj	84	PRO
2	Cj	88	LEU
2	Cj	93	SER
2	Cj	103	LEU
2	Cj	104	VAL
2	Cj	110	VAL
2	Cj	112	VAL
2	Cj	126	VAL
2	Cj	134	HIS
2	Cj	135	THR
2	Cj	150	TYR
2	Cj	159	PRO
2	Cj	160	HIS
2	Cj	162	LEU
2	Cj	166	ARG
2	Cj	167	THR
2	Cj	174	VAL
2	Cj	176	PRO
2	Cj	178	ILE
2	Cj	184	THR
2	Cj	186	LEU
2	Cj	188	LEU
2	Cj	193	THR
2	Cj	194	ILE
2	Cj	195	VAL
2	Cj	197	LEU
2	Cj	200	SER
2	Cj	202	LEU
2	Cj	203	THR
2	Cj	210	PRO

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Mol	Chain	Res	Type
2	Cj	214	SER
2	Cj	222	VAL
2	Cj	223	ASN
2	Ck	13	ARG
2	Ck	18	VAL
2	Ck	22	THR
2	Ck	27	GLN
2	Ck	29	SER
2	Ck	45	SER
2	Ck	56	PRO
2	Ck	58	LEU
2	Ck	73	GLN
2	Ck	75	HIS
2	Ck	80	ILE
2	Ck	84	PRO
2	Ck	88	LEU
2	Ck	93	SER
2	Ck	103	LEU
2	Ck	104	VAL
2	Ck	110	VAL
2	Ck	112	VAL
2	Ck	126	VAL
2	Ck	134	HIS
2	Ck	135	THR
2	Ck	150	TYR
2	Ck	159	PRO
2	Ck	160	HIS
2	Ck	162	LEU
2	Ck	166	ARG
2	Ck	167	THR
2	Ck	174	VAL
2	Ck	176	PRO
2	Ck	178	ILE
2	Ck	184	THR
2	Ck	186	LEU
2	Ck	188	LEU
2	Ck	193	THR
2	Ck	194	ILE
2	Ck	195	VAL
2	Ck	197	LEU
2	Ck	200	SER
2	Ck	202	LEU

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Mol	Chain	Res	Type
2	Ck	203	THR
2	Ck	210	PRO
2	Ck	214	SER
2	Ck	222	VAL
2	Ck	223	ASN
2	Cl	13	ARG
2	Cl	18	VAL
2	Cl	22	THR
2	Cl	27	GLN
2	Cl	29	SER
2	Cl	45	SER
2	Cl	56	PRO
2	Cl	58	LEU
2	Cl	73	GLN
2	Cl	75	HIS
2	Cl	80	ILE
2	Cl	84	PRO
2	Cl	88	LEU
2	Cl	93	SER
2	Cl	103	LEU
2	Cl	104	VAL
2	Cl	110	VAL
2	Cl	112	VAL
2	Cl	126	VAL
2	Cl	134	HIS
2	Cl	135	THR
2	Cl	150	TYR
2	Cl	159	PRO
2	Cl	160	HIS
2	Cl	162	LEU
2	Cl	166	ARG
2	Cl	167	THR
2	Cl	174	VAL
2	Cl	176	PRO
2	Cl	178	ILE
2	Cl	184	THR
2	Cl	186	LEU
2	Cl	188	LEU
2	Cl	193	THR
2	Cl	194	ILE
2	Cl	195	VAL
2	Cl	197	LEU

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Mol	Chain	Res	Type
2	Cl	200	SER
2	Cl	202	LEU
2	Cl	203	THR
2	Cl	210	PRO
2	Cl	214	SER
2	Cl	222	VAL
2	Cl	223	ASN
2	Cm	13	ARG
2	Cm	18	VAL
2	Cm	22	THR
2	Cm	27	GLN
2	Cm	29	SER
2	Cm	45	SER
2	Cm	56	PRO
2	Cm	58	LEU
2	Cm	73	GLN
2	Cm	75	HIS
2	Cm	80	ILE
2	Cm	84	PRO
2	Cm	88	LEU
2	Cm	93	SER
2	Cm	103	LEU
2	Cm	104	VAL
2	Cm	110	VAL
2	Cm	112	VAL
2	Cm	126	VAL
2	Cm	134	HIS
2	Cm	135	THR
2	Cm	150	TYR
2	Cm	159	PRO
2	Cm	160	HIS
2	Cm	162	LEU
2	Cm	166	ARG
2	Cm	167	THR
2	Cm	174	VAL
2	Cm	176	PRO
2	Cm	178	ILE
2	Cm	184	THR
2	Cm	186	LEU
2	Cm	188	LEU
2	Cm	193	THR
2	Cm	194	ILE

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Mol	Chain	Res	Type
2	Cm	195	VAL
2	Cm	197	LEU
2	Cm	200	SER
2	Cm	202	LEU
2	Cm	203	THR
2	Cm	210	PRO
2	Cm	214	SER
2	Cm	222	VAL
2	Cm	223	ASN
2	Cn	13	ARG
2	Cn	18	VAL
2	Cn	22	THR
2	Cn	27	GLN
2	Cn	29	SER
2	Cn	45	SER
2	Cn	56	PRO
2	Cn	58	LEU
2	Cn	73	GLN
2	Cn	75	HIS
2	Cn	80	ILE
2	Cn	84	PRO
2	Cn	88	LEU
2	Cn	93	SER
2	Cn	103	LEU
2	Cn	104	VAL
2	Cn	110	VAL
2	Cn	112	VAL
2	Cn	126	VAL
2	Cn	134	HIS
2	Cn	135	THR
2	Cn	150	TYR
2	Cn	159	PRO
2	Cn	160	HIS
2	Cn	162	LEU
2	Cn	166	ARG
2	Cn	167	THR
2	Cn	174	VAL
2	Cn	176	PRO
2	Cn	178	ILE
2	Cn	184	THR
2	Cn	186	LEU
2	Cn	188	LEU

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Mol	Chain	Res	Type
2	Cn	193	THR
2	Cn	194	ILE
2	Cn	195	VAL
2	Cn	197	LEU
2	Cn	200	SER
2	Cn	202	LEU
2	Cn	203	THR
2	Cn	210	PRO
2	Cn	214	SER
2	Cn	222	VAL
2	Cn	223	ASN
2	Co	13	ARG
2	Co	18	VAL
2	Co	22	THR
2	Co	27	GLN
2	Co	29	SER
2	Co	45	SER
2	Co	56	PRO
2	Co	58	LEU
2	Co	73	GLN
2	Co	75	HIS
2	Co	80	ILE
2	Co	84	PRO
2	Co	88	LEU
2	Co	93	SER
2	Co	103	LEU
2	Co	104	VAL
2	Co	110	VAL
2	Co	112	VAL
2	Co	126	VAL
2	Co	134	HIS
2	Co	135	THR
2	Co	150	TYR
2	Co	159	PRO
2	Co	160	HIS
2	Co	162	LEU
2	Co	166	ARG
2	Co	167	THR
2	Co	174	VAL
2	Co	176	PRO
2	Co	178	ILE
2	Co	184	THR

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Mol	Chain	Res	Type
2	Co	186	LEU
2	Co	188	LEU
2	Co	193	THR
2	Co	194	ILE
2	Co	195	VAL
2	Co	197	LEU
2	Co	200	SER
2	Co	202	LEU
2	Co	203	THR
2	Co	210	PRO
2	Co	214	SER
2	Co	222	VAL
2	Co	223	ASN
2	Cp	13	ARG
2	Cp	18	VAL
2	Cp	22	THR
2	Cp	27	GLN
2	Cp	29	SER
2	Cp	45	SER
2	Cp	56	PRO
2	Cp	58	LEU
2	Cp	73	GLN
2	Cp	75	HIS
2	Cp	80	ILE
2	Cp	84	PRO
2	Cp	88	LEU
2	Cp	93	SER
2	Cp	103	LEU
2	Cp	104	VAL
2	Cp	110	VAL
2	Cp	112	VAL
2	Cp	126	VAL
2	Cp	134	HIS
2	Cp	135	THR
2	Cp	150	TYR
2	Cp	159	PRO
2	Cp	160	HIS
2	Cp	162	LEU
2	Cp	166	ARG
2	Cp	167	THR
2	Cp	174	VAL
2	Cp	176	PRO

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Mol	Chain	Res	Type
2	Cp	178	ILE
2	Cp	184	THR
2	Cp	186	LEU
2	Cp	188	LEU
2	Cp	193	THR
2	Cp	194	ILE
2	Cp	195	VAL
2	Cp	197	LEU
2	Cp	200	SER
2	Cp	202	LEU
2	Cp	203	THR
2	Cp	210	PRO
2	Cp	214	SER
2	Cp	222	VAL
2	Cp	223	ASN
2	Cq	13	ARG
2	Cq	18	VAL
2	Cq	22	THR
2	Cq	27	GLN
2	Cq	29	SER
2	Cq	45	SER
2	Cq	56	PRO
2	Cq	58	LEU
2	Cq	73	GLN
2	Cq	75	HIS
2	Cq	80	ILE
2	Cq	84	PRO
2	Cq	88	LEU
2	Cq	93	SER
2	Cq	103	LEU
2	Cq	104	VAL
2	Cq	110	VAL
2	Cq	112	VAL
2	Cq	126	VAL
2	Cq	134	HIS
2	Cq	135	THR
2	Cq	150	TYR
2	Cq	159	PRO
2	Cq	160	HIS
2	Cq	162	LEU
2	Cq	166	ARG
2	Cq	167	THR

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Mol	Chain	Res	Type
2	Cq	174	VAL
2	Cq	176	PRO
2	Cq	178	ILE
2	Cq	184	THR
2	Cq	186	LEU
2	Cq	188	LEU
2	Cq	193	THR
2	Cq	194	ILE
2	Cq	195	VAL
2	Cq	197	LEU
2	Cq	200	SER
2	Cq	202	LEU
2	Cq	203	THR
2	Cq	210	PRO
2	Cq	214	SER
2	Cq	222	VAL
2	Cq	223	ASN
2	Cr	13	ARG
2	Cr	18	VAL
2	Cr	22	THR
2	Cr	27	GLN
2	Cr	29	SER
2	Cr	45	SER
2	Cr	56	PRO
2	Cr	58	LEU
2	Cr	73	GLN
2	Cr	75	HIS
2	Cr	80	ILE
2	Cr	84	PRO
2	Cr	88	LEU
2	Cr	93	SER
2	Cr	103	LEU
2	Cr	104	VAL
2	Cr	110	VAL
2	Cr	112	VAL
2	Cr	126	VAL
2	Cr	134	HIS
2	Cr	135	THR
2	Cr	150	TYR
2	Cr	159	PRO
2	Cr	160	HIS
2	Cr	162	LEU

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Mol	Chain	Res	Type
2	Cr	166	ARG
2	Cr	167	THR
2	Cr	174	VAL
2	Cr	176	PRO
2	Cr	178	ILE
2	Cr	184	THR
2	Cr	186	LEU
2	Cr	188	LEU
2	Cr	193	THR
2	Cr	194	ILE
2	Cr	195	VAL
2	Cr	197	LEU
2	Cr	200	SER
2	Cr	202	LEU
2	Cr	203	THR
2	Cr	210	PRO
2	Cr	214	SER
2	Cr	222	VAL
2	Cr	223	ASN
2	Cs	13	ARG
2	Cs	18	VAL
2	Cs	22	THR
2	Cs	27	GLN
2	Cs	29	SER
2	Cs	45	SER
2	Cs	56	PRO
2	Cs	58	LEU
2	Cs	73	GLN
2	Cs	75	HIS
2	Cs	80	ILE
2	Cs	84	PRO
2	Cs	88	LEU
2	Cs	93	SER
2	Cs	103	LEU
2	Cs	104	VAL
2	Cs	110	VAL
2	Cs	112	VAL
2	Cs	126	VAL
2	Cs	134	HIS
2	Cs	135	THR
2	Cs	150	TYR
2	Cs	159	PRO

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Mol	Chain	Res	Type
2	Cs	160	HIS
2	Cs	162	LEU
2	Cs	166	ARG
2	Cs	167	THR
2	Cs	174	VAL
2	Cs	176	PRO
2	Cs	178	ILE
2	Cs	184	THR
2	Cs	186	LEU
2	Cs	188	LEU
2	Cs	193	THR
2	Cs	194	ILE
2	Cs	195	VAL
2	Cs	197	LEU
2	Cs	200	SER
2	Cs	202	LEU
2	Cs	203	THR
2	Cs	210	PRO
2	Cs	214	SER
2	Cs	222	VAL
2	Cs	223	ASN
2	Ct	13	ARG
2	Ct	18	VAL
2	Ct	22	THR
2	Ct	27	GLN
2	Ct	29	SER
2	Ct	45	SER
2	Ct	56	PRO
2	Ct	58	LEU
2	Ct	73	GLN
2	Ct	75	HIS
2	Ct	80	ILE
2	Ct	84	PRO
2	Ct	88	LEU
2	Ct	93	SER
2	Ct	103	LEU
2	Ct	104	VAL
2	Ct	110	VAL
2	Ct	112	VAL
2	Ct	126	VAL
2	Ct	134	HIS
2	Ct	135	THR

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Mol	Chain	Res	Type
2	Ct	150	TYR
2	Ct	159	PRO
2	Ct	160	HIS
2	Ct	162	LEU
2	Ct	166	ARG
2	Ct	167	THR
2	Ct	174	VAL
2	Ct	176	PRO
2	Ct	178	ILE
2	Ct	184	THR
2	Ct	186	LEU
2	Ct	188	LEU
2	Ct	193	THR
2	Ct	194	ILE
2	Ct	195	VAL
2	Ct	197	LEU
2	Ct	200	SER
2	Ct	202	LEU
2	Ct	203	THR
2	Ct	210	PRO
2	Ct	214	SER
2	Ct	222	VAL
2	Ct	223	ASN
2	Cu	13	ARG
2	Cu	18	VAL
2	Cu	22	THR
2	Cu	27	GLN
2	Cu	29	SER
2	Cu	45	SER
2	Cu	56	PRO
2	Cu	58	LEU
2	Cu	73	GLN
2	Cu	75	HIS
2	Cu	80	ILE
2	Cu	84	PRO
2	Cu	88	LEU
2	Cu	93	SER
2	Cu	103	LEU
2	Cu	104	VAL
2	Cu	110	VAL
2	Cu	112	VAL
2	Cu	126	VAL

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Mol	Chain	Res	Type
2	Cu	134	HIS
2	Cu	135	THR
2	Cu	150	TYR
2	Cu	159	PRO
2	Cu	160	HIS
2	Cu	162	LEU
2	Cu	166	ARG
2	Cu	167	THR
2	Cu	174	VAL
2	Cu	176	PRO
2	Cu	178	ILE
2	Cu	184	THR
2	Cu	186	LEU
2	Cu	188	LEU
2	Cu	193	THR
2	Cu	194	ILE
2	Cu	195	VAL
2	Cu	197	LEU
2	Cu	200	SER
2	Cu	202	LEU
2	Cu	203	THR
2	Cu	210	PRO
2	Cu	214	SER
2	Cu	222	VAL
2	Cu	223	ASN
2	Cv	13	ARG
2	Cv	18	VAL
2	Cv	22	THR
2	Cv	27	GLN
2	Cv	29	SER
2	Cv	45	SER
2	Cv	56	PRO
2	Cv	58	LEU
2	Cv	73	GLN
2	Cv	75	HIS
2	Cv	80	ILE
2	Cv	84	PRO
2	Cv	88	LEU
2	Cv	93	SER
2	Cv	103	LEU
2	Cv	104	VAL
2	Cv	110	VAL

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Mol	Chain	Res	Type
2	Cv	112	VAL
2	Cv	126	VAL
2	Cv	134	HIS
2	Cv	135	THR
2	Cv	150	TYR
2	Cv	159	PRO
2	Cv	160	HIS
2	Cv	162	LEU
2	Cv	166	ARG
2	Cv	167	THR
2	Cv	174	VAL
2	Cv	176	PRO
2	Cv	178	ILE
2	Cv	184	THR
2	Cv	186	LEU
2	Cv	188	LEU
2	Cv	193	THR
2	Cv	194	ILE
2	Cv	195	VAL
2	Cv	197	LEU
2	Cv	200	SER
2	Cv	202	LEU
2	Cv	203	THR
2	Cv	210	PRO
2	Cv	214	SER
2	Cv	222	VAL
2	Cv	223	ASN
2	Cw	13	ARG
2	Cw	18	VAL
2	Cw	22	THR
2	Cw	27	GLN
2	Cw	29	SER
2	Cw	45	SER
2	Cw	56	PRO
2	Cw	58	LEU
2	Cw	73	GLN
2	Cw	75	HIS
2	Cw	80	ILE
2	Cw	84	PRO
2	Cw	88	LEU
2	Cw	93	SER
2	Cw	103	LEU

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Mol	Chain	Res	Type
2	Cw	104	VAL
2	Cw	110	VAL
2	Cw	112	VAL
2	Cw	126	VAL
2	Cw	134	HIS
2	Cw	135	THR
2	Cw	150	TYR
2	Cw	159	PRO
2	Cw	160	HIS
2	Cw	162	LEU
2	Cw	166	ARG
2	Cw	167	THR
2	Cw	174	VAL
2	Cw	176	PRO
2	Cw	178	ILE
2	Cw	184	THR
2	Cw	186	LEU
2	Cw	188	LEU
2	Cw	193	THR
2	Cw	194	ILE
2	Cw	195	VAL
2	Cw	197	LEU
2	Cw	200	SER
2	Cw	202	LEU
2	Cw	203	THR
2	Cw	210	PRO
2	Cw	214	SER
2	Cw	222	VAL
2	Cw	223	ASN
2	Cx	13	ARG
2	Cx	18	VAL
2	Cx	22	THR
2	Cx	27	GLN
2	Cx	29	SER
2	Cx	45	SER
2	Cx	56	PRO
2	Cx	58	LEU
2	Cx	73	GLN
2	Cx	75	HIS
2	Cx	80	ILE
2	Cx	84	PRO
2	Cx	88	LEU

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Mol	Chain	Res	Type
2	Cx	93	SER
2	Cx	103	LEU
2	Cx	104	VAL
2	Cx	110	VAL
2	Cx	112	VAL
2	Cx	126	VAL
2	Cx	134	HIS
2	Cx	135	THR
2	Cx	150	TYR
2	Cx	159	PRO
2	Cx	160	HIS
2	Cx	162	LEU
2	Cx	166	ARG
2	Cx	167	THR
2	Cx	174	VAL
2	Cx	176	PRO
2	Cx	178	ILE
2	Cx	184	THR
2	Cx	186	LEU
2	Cx	188	LEU
2	Cx	193	THR
2	Cx	194	ILE
2	Cx	195	VAL
2	Cx	197	LEU
2	Cx	200	SER
2	Cx	202	LEU
2	Cx	203	THR
2	Cx	210	PRO
2	Cx	214	SER
2	Cx	222	VAL
2	Cx	223	ASN
3	D0	8	VAL
3	D0	15	MET
3	D0	16	SER
3	D0	18	VAL
3	D0	31	VAL
3	D0	35	GLN
3	D0	36	VAL
3	D0	41	THR
3	D0	42	ASN
3	D0	46	VAL
3	D0	50	THR

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Mol	Chain	Res	Type
3	D0	51	TYR
3	D0	54	CYS
3	D0	56	ILE
3	D0	59	LYS
3	D0	63	GLU
3	D0	65	THR
3	D0	67	THR
3	D0	76	MET
3	D0	78	VAL
3	D0	84	GLU
3	D0	86	HIS
3	D0	90	VAL
3	D0	93	LEU
3	D0	95	SER
3	D0	103	SER
3	D0	107	ASN
3	D0	109	ILE
3	D0	119	LYS
3	D0	120	PHE
3	D0	121	LEU
3	D0	133	LYS
3	D0	134	THR
3	D0	139	MET
3	D0	142	ILE
3	D0	146	TRP
3	D0	148	VAL
3	D0	150	LEU
3	D0	158	VAL
3	D0	162	SER
3	D0	175	THR
3	D0	188	LEU
3	D0	189	THR
3	D0	195	ASP
3	D0	204	VAL
3	D0	206	VAL
3	D0	217	ARG
3	D0	222	LEU
3	D1	8	VAL
3	D1	15	MET
3	D1	16	SER
3	D1	18	VAL
3	D1	31	VAL

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Mol	Chain	Res	Type
3	D1	35	GLN
3	D1	36	VAL
3	D1	41	THR
3	D1	42	ASN
3	D1	46	VAL
3	D1	50	THR
3	D1	51	TYR
3	D1	54	CYS
3	D1	56	ILE
3	D1	59	LYS
3	D1	63	GLU
3	D1	65	THR
3	D1	67	THR
3	D1	76	MET
3	D1	78	VAL
3	D1	84	GLU
3	D1	86	HIS
3	D1	90	VAL
3	D1	93	LEU
3	D1	95	SER
3	D1	103	SER
3	D1	107	ASN
3	D1	109	ILE
3	D1	119	LYS
3	D1	120	PHE
3	D1	121	LEU
3	D1	133	LYS
3	D1	134	THR
3	D1	139	MET
3	D1	142	ILE
3	D1	146	TRP
3	D1	148	VAL
3	D1	150	LEU
3	D1	158	VAL
3	D1	162	SER
3	D1	175	THR
3	D1	188	LEU
3	D1	189	THR
3	D1	195	ASP
3	D1	204	VAL
3	D1	206	VAL
3	D1	217	ARG

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Mol	Chain	Res	Type
3	D1	222	LEU
3	D2	8	VAL
3	D2	15	MET
3	D2	16	SER
3	D2	18	VAL
3	D2	31	VAL
3	D2	35	GLN
3	D2	36	VAL
3	D2	41	THR
3	D2	42	ASN
3	D2	46	VAL
3	D2	50	THR
3	D2	51	TYR
3	D2	54	CYS
3	D2	56	ILE
3	D2	59	LYS
3	D2	63	GLU
3	D2	65	THR
3	D2	67	THR
3	D2	76	MET
3	D2	78	VAL
3	D2	84	GLU
3	D2	86	HIS
3	D2	90	VAL
3	D2	93	LEU
3	D2	95	SER
3	D2	103	SER
3	D2	107	ASN
3	D2	109	ILE
3	D2	119	LYS
3	D2	120	PHE
3	D2	121	LEU
3	D2	133	LYS
3	D2	134	THR
3	D2	139	MET
3	D2	142	ILE
3	D2	146	TRP
3	D2	148	VAL
3	D2	150	LEU
3	D2	158	VAL
3	D2	162	SER
3	D2	175	THR

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Mol	Chain	Res	Type
3	D2	188	LEU
3	D2	189	THR
3	D2	195	ASP
3	D2	204	VAL
3	D2	206	VAL
3	D2	217	ARG
3	D2	222	LEU
3	D3	8	VAL
3	D3	15	MET
3	D3	16	SER
3	D3	18	VAL
3	D3	31	VAL
3	D3	35	GLN
3	D3	36	VAL
3	D3	41	THR
3	D3	42	ASN
3	D3	46	VAL
3	D3	50	THR
3	D3	51	TYR
3	D3	54	CYS
3	D3	56	ILE
3	D3	59	LYS
3	D3	63	GLU
3	D3	65	THR
3	D3	67	THR
3	D3	76	MET
3	D3	78	VAL
3	D3	84	GLU
3	D3	86	HIS
3	D3	90	VAL
3	D3	93	LEU
3	D3	95	SER
3	D3	103	SER
3	D3	107	ASN
3	D3	109	ILE
3	D3	119	LYS
3	D3	120	PHE
3	D3	121	LEU
3	D3	133	LYS
3	D3	134	THR
3	D3	139	MET
3	D3	142	ILE

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Mol	Chain	Res	Type
3	D3	146	TRP
3	D3	148	VAL
3	D3	150	LEU
3	D3	158	VAL
3	D3	162	SER
3	D3	175	THR
3	D3	188	LEU
3	D3	189	THR
3	D3	195	ASP
3	D3	204	VAL
3	D3	206	VAL
3	D3	217	ARG
3	D3	222	LEU
3	D4	8	VAL
3	D4	15	MET
3	D4	16	SER
3	D4	18	VAL
3	D4	31	VAL
3	D4	35	GLN
3	D4	36	VAL
3	D4	41	THR
3	D4	42	ASN
3	D4	46	VAL
3	D4	50	THR
3	D4	51	TYR
3	D4	54	CYS
3	D4	56	ILE
3	D4	59	LYS
3	D4	63	GLU
3	D4	65	THR
3	D4	67	THR
3	D4	76	MET
3	D4	78	VAL
3	D4	84	GLU
3	D4	86	HIS
3	D4	90	VAL
3	D4	93	LEU
3	D4	95	SER
3	D4	103	SER
3	D4	107	ASN
3	D4	109	ILE
3	D4	119	LYS

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Mol	Chain	Res	Type
3	D4	120	PHE
3	D4	121	LEU
3	D4	133	LYS
3	D4	134	THR
3	D4	139	MET
3	D4	142	ILE
3	D4	146	TRP
3	D4	148	VAL
3	D4	150	LEU
3	D4	158	VAL
3	D4	162	SER
3	D4	175	THR
3	D4	188	LEU
3	D4	189	THR
3	D4	195	ASP
3	D4	204	VAL
3	D4	206	VAL
3	D4	217	ARG
3	D4	222	LEU
3	D5	8	VAL
3	D5	15	MET
3	D5	16	SER
3	D5	18	VAL
3	D5	31	VAL
3	D5	35	GLN
3	D5	36	VAL
3	D5	41	THR
3	D5	42	ASN
3	D5	46	VAL
3	D5	50	THR
3	D5	51	TYR
3	D5	54	CYS
3	D5	56	ILE
3	D5	59	LYS
3	D5	63	GLU
3	D5	65	THR
3	D5	67	THR
3	D5	76	MET
3	D5	78	VAL
3	D5	84	GLU
3	D5	86	HIS
3	D5	90	VAL

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Mol	Chain	Res	Type
3	D5	93	LEU
3	D5	95	SER
3	D5	103	SER
3	D5	107	ASN
3	D5	109	ILE
3	D5	119	LYS
3	D5	120	PHE
3	D5	121	LEU
3	D5	133	LYS
3	D5	134	THR
3	D5	139	MET
3	D5	142	ILE
3	D5	146	TRP
3	D5	148	VAL
3	D5	150	LEU
3	D5	158	VAL
3	D5	162	SER
3	D5	175	THR
3	D5	188	LEU
3	D5	189	THR
3	D5	195	ASP
3	D5	204	VAL
3	D5	206	VAL
3	D5	217	ARG
3	D5	222	LEU
3	D6	8	VAL
3	D6	15	MET
3	D6	16	SER
3	D6	18	VAL
3	D6	31	VAL
3	D6	35	GLN
3	D6	36	VAL
3	D6	41	THR
3	D6	42	ASN
3	D6	46	VAL
3	D6	50	THR
3	D6	51	TYR
3	D6	54	CYS
3	D6	56	ILE
3	D6	59	LYS
3	D6	63	GLU
3	D6	65	THR

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Mol	Chain	Res	Type
3	D6	67	THR
3	D6	76	MET
3	D6	78	VAL
3	D6	84	GLU
3	D6	86	HIS
3	D6	90	VAL
3	D6	93	LEU
3	D6	95	SER
3	D6	103	SER
3	D6	107	ASN
3	D6	109	ILE
3	D6	119	LYS
3	D6	120	PHE
3	D6	121	LEU
3	D6	133	LYS
3	D6	134	THR
3	D6	139	MET
3	D6	142	ILE
3	D6	146	TRP
3	D6	148	VAL
3	D6	150	LEU
3	D6	158	VAL
3	D6	162	SER
3	D6	175	THR
3	D6	188	LEU
3	D6	189	THR
3	D6	195	ASP
3	D6	204	VAL
3	D6	206	VAL
3	D6	217	ARG
3	D6	222	LEU
3	D7	8	VAL
3	D7	15	MET
3	D7	16	SER
3	D7	18	VAL
3	D7	31	VAL
3	D7	35	GLN
3	D7	36	VAL
3	D7	41	THR
3	D7	42	ASN
3	D7	46	VAL
3	D7	50	THR

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Mol	Chain	Res	Type
3	D7	51	TYR
3	D7	54	CYS
3	D7	56	ILE
3	D7	59	LYS
3	D7	63	GLU
3	D7	65	THR
3	D7	67	THR
3	D7	76	MET
3	D7	78	VAL
3	D7	84	GLU
3	D7	86	HIS
3	D7	90	VAL
3	D7	93	LEU
3	D7	95	SER
3	D7	103	SER
3	D7	107	ASN
3	D7	109	ILE
3	D7	119	LYS
3	D7	120	PHE
3	D7	121	LEU
3	D7	133	LYS
3	D7	134	THR
3	D7	139	MET
3	D7	142	ILE
3	D7	146	TRP
3	D7	148	VAL
3	D7	150	LEU
3	D7	158	VAL
3	D7	162	SER
3	D7	175	THR
3	D7	188	LEU
3	D7	189	THR
3	D7	195	ASP
3	D7	204	VAL
3	D7	206	VAL
3	D7	217	ARG
3	D7	222	LEU
3	D8	8	VAL
3	D8	15	MET
3	D8	16	SER
3	D8	18	VAL
3	D8	31	VAL

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Mol	Chain	Res	Type
3	D8	35	GLN
3	D8	36	VAL
3	D8	41	THR
3	D8	42	ASN
3	D8	46	VAL
3	D8	50	THR
3	D8	51	TYR
3	D8	54	CYS
3	D8	56	ILE
3	D8	59	LYS
3	D8	63	GLU
3	D8	65	THR
3	D8	67	THR
3	D8	76	MET
3	D8	78	VAL
3	D8	84	GLU
3	D8	86	HIS
3	D8	90	VAL
3	D8	93	LEU
3	D8	95	SER
3	D8	103	SER
3	D8	107	ASN
3	D8	109	ILE
3	D8	119	LYS
3	D8	120	PHE
3	D8	121	LEU
3	D8	133	LYS
3	D8	134	THR
3	D8	139	MET
3	D8	142	ILE
3	D8	146	TRP
3	D8	148	VAL
3	D8	150	LEU
3	D8	158	VAL
3	D8	162	SER
3	D8	175	THR
3	D8	188	LEU
3	D8	189	THR
3	D8	195	ASP
3	D8	204	VAL
3	D8	206	VAL
3	D8	217	ARG

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Mol	Chain	Res	Type
3	D8	222	LEU
3	D9	8	VAL
3	D9	15	MET
3	D9	16	SER
3	D9	18	VAL
3	D9	31	VAL
3	D9	35	GLN
3	D9	36	VAL
3	D9	41	THR
3	D9	42	ASN
3	D9	46	VAL
3	D9	50	THR
3	D9	51	TYR
3	D9	54	CYS
3	D9	56	ILE
3	D9	59	LYS
3	D9	63	GLU
3	D9	65	THR
3	D9	67	THR
3	D9	76	MET
3	D9	78	VAL
3	D9	84	GLU
3	D9	86	HIS
3	D9	90	VAL
3	D9	93	LEU
3	D9	95	SER
3	D9	103	SER
3	D9	107	ASN
3	D9	109	ILE
3	D9	119	LYS
3	D9	120	PHE
3	D9	121	LEU
3	D9	133	LYS
3	D9	134	THR
3	D9	139	MET
3	D9	142	ILE
3	D9	146	TRP
3	D9	148	VAL
3	D9	150	LEU
3	D9	158	VAL
3	D9	162	SER
3	D9	175	THR

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Mol	Chain	Res	Type
3	D9	188	LEU
3	D9	189	THR
3	D9	195	ASP
3	D9	204	VAL
3	D9	206	VAL
3	D9	217	ARG
3	D9	222	LEU
3	DA	8	VAL
3	DA	15	MET
3	DA	16	SER
3	DA	18	VAL
3	DA	31	VAL
3	DA	35	GLN
3	DA	36	VAL
3	DA	41	THR
3	DA	42	ASN
3	DA	46	VAL
3	DA	50	THR
3	DA	51	TYR
3	DA	54	CYS
3	DA	56	ILE
3	DA	59	LYS
3	DA	63	GLU
3	DA	65	THR
3	DA	67	THR
3	DA	76	MET
3	DA	78	VAL
3	DA	84	GLU
3	DA	86	HIS
3	DA	90	VAL
3	DA	93	LEU
3	DA	95	SER
3	DA	103	SER
3	DA	107	ASN
3	DA	109	ILE
3	DA	119	LYS
3	DA	120	PHE
3	DA	121	LEU
3	DA	133	LYS
3	DA	134	THR
3	DA	139	MET
3	DA	142	ILE

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Mol	Chain	Res	Type
3	DA	146	TRP
3	DA	148	VAL
3	DA	150	LEU
3	DA	158	VAL
3	DA	162	SER
3	DA	175	THR
3	DA	188	LEU
3	DA	189	THR
3	DA	195	ASP
3	DA	204	VAL
3	DA	206	VAL
3	DA	217	ARG
3	DA	222	LEU
3	DB	8	VAL
3	DB	15	MET
3	DB	16	SER
3	DB	18	VAL
3	DB	31	VAL
3	DB	35	GLN
3	DB	36	VAL
3	DB	41	THR
3	DB	42	ASN
3	DB	46	VAL
3	DB	50	THR
3	DB	51	TYR
3	DB	54	CYS
3	DB	56	ILE
3	DB	59	LYS
3	DB	63	GLU
3	DB	65	THR
3	DB	67	THR
3	DB	76	MET
3	DB	78	VAL
3	DB	84	GLU
3	DB	86	HIS
3	DB	90	VAL
3	DB	93	LEU
3	DB	95	SER
3	DB	103	SER
3	DB	107	ASN
3	DB	109	ILE
3	DB	119	LYS

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Mol	Chain	Res	Type
3	DB	120	PHE
3	DB	121	LEU
3	DB	133	LYS
3	DB	134	THR
3	DB	139	MET
3	DB	142	ILE
3	DB	146	TRP
3	DB	148	VAL
3	DB	150	LEU
3	DB	158	VAL
3	DB	162	SER
3	DB	175	THR
3	DB	188	LEU
3	DB	189	THR
3	DB	195	ASP
3	DB	204	VAL
3	DB	206	VAL
3	DB	217	ARG
3	DB	222	LEU
3	DC	8	VAL
3	DC	15	MET
3	DC	16	SER
3	DC	18	VAL
3	DC	31	VAL
3	DC	35	GLN
3	DC	36	VAL
3	DC	41	THR
3	DC	42	ASN
3	DC	46	VAL
3	DC	50	THR
3	DC	51	TYR
3	DC	54	CYS
3	DC	56	ILE
3	DC	59	LYS
3	DC	63	GLU
3	DC	65	THR
3	DC	67	THR
3	DC	76	MET
3	DC	78	VAL
3	DC	84	GLU
3	DC	86	HIS
3	DC	90	VAL

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Mol	Chain	Res	Type
3	DC	93	LEU
3	DC	95	SER
3	DC	103	SER
3	DC	107	ASN
3	DC	109	ILE
3	DC	119	LYS
3	DC	120	PHE
3	DC	121	LEU
3	DC	133	LYS
3	DC	134	THR
3	DC	139	MET
3	DC	142	ILE
3	DC	146	TRP
3	DC	148	VAL
3	DC	150	LEU
3	DC	158	VAL
3	DC	162	SER
3	DC	175	THR
3	DC	188	LEU
3	DC	189	THR
3	DC	195	ASP
3	DC	204	VAL
3	DC	206	VAL
3	DC	217	ARG
3	DC	222	LEU
3	DD	8	VAL
3	DD	15	MET
3	DD	16	SER
3	DD	18	VAL
3	DD	31	VAL
3	DD	35	GLN
3	DD	36	VAL
3	DD	41	THR
3	DD	42	ASN
3	DD	46	VAL
3	DD	50	THR
3	DD	51	TYR
3	DD	54	CYS
3	DD	56	ILE
3	DD	59	LYS
3	DD	63	GLU
3	DD	65	THR

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Mol	Chain	Res	Type
3	DD	67	THR
3	DD	76	MET
3	DD	78	VAL
3	DD	84	GLU
3	DD	86	HIS
3	DD	90	VAL
3	DD	93	LEU
3	DD	95	SER
3	DD	103	SER
3	DD	107	ASN
3	DD	109	ILE
3	DD	119	LYS
3	DD	120	PHE
3	DD	121	LEU
3	DD	133	LYS
3	DD	134	THR
3	DD	139	MET
3	DD	142	ILE
3	DD	146	TRP
3	DD	148	VAL
3	DD	150	LEU
3	DD	158	VAL
3	DD	162	SER
3	DD	175	THR
3	DD	188	LEU
3	DD	189	THR
3	DD	195	ASP
3	DD	204	VAL
3	DD	206	VAL
3	DD	217	ARG
3	DD	222	LEU
3	DE	8	VAL
3	DE	15	MET
3	DE	16	SER
3	DE	18	VAL
3	DE	31	VAL
3	DE	35	GLN
3	DE	36	VAL
3	DE	41	THR
3	DE	42	ASN
3	DE	46	VAL
3	DE	50	THR

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Mol	Chain	Res	Type
3	DE	51	TYR
3	DE	54	CYS
3	DE	56	ILE
3	DE	59	LYS
3	DE	63	GLU
3	DE	65	THR
3	DE	67	THR
3	DE	76	MET
3	DE	78	VAL
3	DE	84	GLU
3	DE	86	HIS
3	DE	90	VAL
3	DE	93	LEU
3	DE	95	SER
3	DE	103	SER
3	DE	107	ASN
3	DE	109	ILE
3	DE	119	LYS
3	DE	120	PHE
3	DE	121	LEU
3	DE	133	LYS
3	DE	134	THR
3	DE	139	MET
3	DE	142	ILE
3	DE	146	TRP
3	DE	148	VAL
3	DE	150	LEU
3	DE	158	VAL
3	DE	162	SER
3	DE	175	THR
3	DE	188	LEU
3	DE	189	THR
3	DE	195	ASP
3	DE	204	VAL
3	DE	206	VAL
3	DE	217	ARG
3	DE	222	LEU
3	DF	8	VAL
3	DF	15	MET
3	DF	16	SER
3	DF	17	SER
3	DF	18	VAL

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Mol	Chain	Res	Type
3	DF	31	VAL
3	DF	35	GLN
3	DF	36	VAL
3	DF	41	THR
3	DF	42	ASN
3	DF	46	VAL
3	DF	50	THR
3	DF	51	TYR
3	DF	54	CYS
3	DF	56	ILE
3	DF	59	LYS
3	DF	63	GLU
3	DF	65	THR
3	DF	67	THR
3	DF	76	MET
3	DF	78	VAL
3	DF	84	GLU
3	DF	86	HIS
3	DF	90	VAL
3	DF	93	LEU
3	DF	95	SER
3	DF	103	SER
3	DF	107	ASN
3	DF	109	ILE
3	DF	119	LYS
3	DF	120	PHE
3	DF	121	LEU
3	DF	133	LYS
3	DF	134	THR
3	DF	139	MET
3	DF	142	ILE
3	DF	146	TRP
3	DF	148	VAL
3	DF	150	LEU
3	DF	158	VAL
3	DF	162	SER
3	DF	175	THR
3	DF	188	LEU
3	DF	189	THR
3	DF	195	ASP
3	DF	204	VAL
3	DF	206	VAL

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Mol	Chain	Res	Type
3	DF	217	ARG
3	DF	222	LEU
3	DG	8	VAL
3	DG	15	MET
3	DG	16	SER
3	DG	18	VAL
3	DG	31	VAL
3	DG	35	GLN
3	DG	36	VAL
3	DG	41	THR
3	DG	42	ASN
3	DG	46	VAL
3	DG	50	THR
3	DG	51	TYR
3	DG	54	CYS
3	DG	56	ILE
3	DG	59	LYS
3	DG	63	GLU
3	DG	65	THR
3	DG	67	THR
3	DG	76	MET
3	DG	78	VAL
3	DG	84	GLU
3	DG	86	HIS
3	DG	90	VAL
3	DG	93	LEU
3	DG	95	SER
3	DG	103	SER
3	DG	107	ASN
3	DG	109	ILE
3	DG	119	LYS
3	DG	120	PHE
3	DG	121	LEU
3	DG	133	LYS
3	DG	134	THR
3	DG	139	MET
3	DG	142	ILE
3	DG	146	TRP
3	DG	148	VAL
3	DG	150	LEU
3	DG	158	VAL
3	DG	162	SER

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Mol	Chain	Res	Type
3	DG	175	THR
3	DG	188	LEU
3	DG	189	THR
3	DG	195	ASP
3	DG	204	VAL
3	DG	206	VAL
3	DG	217	ARG
3	DG	222	LEU
3	DH	8	VAL
3	DH	15	MET
3	DH	16	SER
3	DH	18	VAL
3	DH	31	VAL
3	DH	35	GLN
3	DH	36	VAL
3	DH	41	THR
3	DH	42	ASN
3	DH	46	VAL
3	DH	50	THR
3	DH	51	TYR
3	DH	54	CYS
3	DH	56	ILE
3	DH	59	LYS
3	DH	63	GLU
3	DH	65	THR
3	DH	67	THR
3	DH	76	MET
3	DH	78	VAL
3	DH	84	GLU
3	DH	86	HIS
3	DH	90	VAL
3	DH	93	LEU
3	DH	95	SER
3	DH	103	SER
3	DH	107	ASN
3	DH	109	ILE
3	DH	119	LYS
3	DH	120	PHE
3	DH	121	LEU
3	DH	133	LYS
3	DH	134	THR
3	DH	139	MET

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Mol	Chain	Res	Type
3	DH	142	ILE
3	DH	146	TRP
3	DH	148	VAL
3	DH	150	LEU
3	DH	158	VAL
3	DH	162	SER
3	DH	175	THR
3	DH	188	LEU
3	DH	189	THR
3	DH	195	ASP
3	DH	204	VAL
3	DH	206	VAL
3	DH	217	ARG
3	DH	222	LEU
3	DI	8	VAL
3	DI	15	MET
3	DI	16	SER
3	DI	18	VAL
3	DI	31	VAL
3	DI	35	GLN
3	DI	36	VAL
3	DI	41	THR
3	DI	42	ASN
3	DI	46	VAL
3	DI	50	THR
3	DI	51	TYR
3	DI	54	CYS
3	DI	56	ILE
3	DI	59	LYS
3	DI	63	GLU
3	DI	65	THR
3	DI	67	THR
3	DI	76	MET
3	DI	78	VAL
3	DI	84	GLU
3	DI	86	HIS
3	DI	90	VAL
3	DI	93	LEU
3	DI	95	SER
3	DI	103	SER
3	DI	107	ASN
3	DI	109	ILE

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Mol	Chain	Res	Type
3	DI	119	LYS
3	DI	120	PHE
3	DI	121	LEU
3	DI	133	LYS
3	DI	134	THR
3	DI	139	MET
3	DI	142	ILE
3	DI	146	TRP
3	DI	148	VAL
3	DI	150	LEU
3	DI	158	VAL
3	DI	162	SER
3	DI	175	THR
3	DI	188	LEU
3	DI	189	THR
3	DI	195	ASP
3	DI	204	VAL
3	DI	206	VAL
3	DI	217	ARG
3	DI	222	LEU
3	DJ	8	VAL
3	DJ	15	MET
3	DJ	16	SER
3	DJ	18	VAL
3	DJ	31	VAL
3	DJ	35	GLN
3	DJ	36	VAL
3	DJ	41	THR
3	DJ	42	ASN
3	DJ	46	VAL
3	DJ	50	THR
3	DJ	51	TYR
3	DJ	54	CYS
3	DJ	56	ILE
3	DJ	59	LYS
3	DJ	63	GLU
3	DJ	65	THR
3	DJ	67	THR
3	DJ	76	MET
3	DJ	78	VAL
3	DJ	84	GLU
3	DJ	86	HIS

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Mol	Chain	Res	Type
3	DJ	90	VAL
3	DJ	93	LEU
3	DJ	95	SER
3	DJ	103	SER
3	DJ	107	ASN
3	DJ	109	ILE
3	DJ	119	LYS
3	DJ	120	PHE
3	DJ	121	LEU
3	DJ	133	LYS
3	DJ	134	THR
3	DJ	139	MET
3	DJ	142	ILE
3	DJ	146	TRP
3	DJ	148	VAL
3	DJ	150	LEU
3	DJ	158	VAL
3	DJ	162	SER
3	DJ	175	THR
3	DJ	188	LEU
3	DJ	189	THR
3	DJ	195	ASP
3	DJ	204	VAL
3	DJ	206	VAL
3	DJ	217	ARG
3	DJ	222	LEU
3	DK	8	VAL
3	DK	15	MET
3	DK	16	SER
3	DK	18	VAL
3	DK	31	VAL
3	DK	35	GLN
3	DK	36	VAL
3	DK	41	THR
3	DK	42	ASN
3	DK	46	VAL
3	DK	50	THR
3	DK	51	TYR
3	DK	54	CYS
3	DK	56	ILE
3	DK	59	LYS
3	DK	63	GLU

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Mol	Chain	Res	Type
3	DK	65	THR
3	DK	67	THR
3	DK	76	MET
3	DK	78	VAL
3	DK	84	GLU
3	DK	86	HIS
3	DK	90	VAL
3	DK	93	LEU
3	DK	95	SER
3	DK	103	SER
3	DK	107	ASN
3	DK	109	ILE
3	DK	119	LYS
3	DK	120	PHE
3	DK	121	LEU
3	DK	133	LYS
3	DK	134	THR
3	DK	139	MET
3	DK	142	ILE
3	DK	146	TRP
3	DK	148	VAL
3	DK	150	LEU
3	DK	158	VAL
3	DK	162	SER
3	DK	175	THR
3	DK	188	LEU
3	DK	189	THR
3	DK	195	ASP
3	DK	204	VAL
3	DK	206	VAL
3	DK	217	ARG
3	DK	222	LEU
3	DL	8	VAL
3	DL	15	MET
3	DL	16	SER
3	DL	18	VAL
3	DL	31	VAL
3	DL	35	GLN
3	DL	36	VAL
3	DL	41	THR
3	DL	42	ASN
3	DL	46	VAL

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Mol	Chain	Res	Type
3	DL	50	THR
3	DL	51	TYR
3	DL	54	CYS
3	DL	56	ILE
3	DL	59	LYS
3	DL	63	GLU
3	DL	65	THR
3	DL	67	THR
3	DL	76	MET
3	DL	78	VAL
3	DL	84	GLU
3	DL	86	HIS
3	DL	90	VAL
3	DL	93	LEU
3	DL	95	SER
3	DL	103	SER
3	DL	107	ASN
3	DL	109	ILE
3	DL	119	LYS
3	DL	120	PHE
3	DL	121	LEU
3	DL	133	LYS
3	DL	134	THR
3	DL	139	MET
3	DL	142	ILE
3	DL	146	TRP
3	DL	148	VAL
3	DL	150	LEU
3	DL	158	VAL
3	DL	162	SER
3	DL	175	THR
3	DL	188	LEU
3	DL	189	THR
3	DL	195	ASP
3	DL	204	VAL
3	DL	206	VAL
3	DL	217	ARG
3	DL	222	LEU
3	DM	8	VAL
3	DM	15	MET
3	DM	16	SER
3	DM	18	VAL

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Mol	Chain	Res	Type
3	DM	31	VAL
3	DM	35	GLN
3	DM	36	VAL
3	DM	41	THR
3	DM	42	ASN
3	DM	46	VAL
3	DM	50	THR
3	DM	51	TYR
3	DM	54	CYS
3	DM	56	ILE
3	DM	59	LYS
3	DM	63	GLU
3	DM	65	THR
3	DM	67	THR
3	DM	76	MET
3	DM	78	VAL
3	DM	84	GLU
3	DM	86	HIS
3	DM	90	VAL
3	DM	93	LEU
3	DM	95	SER
3	DM	103	SER
3	DM	107	ASN
3	DM	109	ILE
3	DM	119	LYS
3	DM	120	PHE
3	DM	121	LEU
3	DM	133	LYS
3	DM	134	THR
3	DM	139	MET
3	DM	142	ILE
3	DM	146	TRP
3	DM	148	VAL
3	DM	150	LEU
3	DM	158	VAL
3	DM	162	SER
3	DM	175	THR
3	DM	188	LEU
3	DM	189	THR
3	DM	195	ASP
3	DM	204	VAL
3	DM	206	VAL

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Mol	Chain	Res	Type
3	DM	217	ARG
3	DM	222	LEU
3	DN	8	VAL
3	DN	15	MET
3	DN	16	SER
3	DN	18	VAL
3	DN	31	VAL
3	DN	35	GLN
3	DN	36	VAL
3	DN	41	THR
3	DN	42	ASN
3	DN	46	VAL
3	DN	50	THR
3	DN	51	TYR
3	DN	54	CYS
3	DN	56	ILE
3	DN	59	LYS
3	DN	63	GLU
3	DN	65	THR
3	DN	67	THR
3	DN	76	MET
3	DN	78	VAL
3	DN	84	GLU
3	DN	86	HIS
3	DN	90	VAL
3	DN	93	LEU
3	DN	95	SER
3	DN	103	SER
3	DN	107	ASN
3	DN	109	ILE
3	DN	119	LYS
3	DN	120	PHE
3	DN	121	LEU
3	DN	133	LYS
3	DN	134	THR
3	DN	139	MET
3	DN	142	ILE
3	DN	146	TRP
3	DN	148	VAL
3	DN	150	LEU
3	DN	158	VAL
3	DN	162	SER

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Mol	Chain	Res	Type
3	DN	175	THR
3	DN	188	LEU
3	DN	189	THR
3	DN	195	ASP
3	DN	204	VAL
3	DN	206	VAL
3	DN	217	ARG
3	DN	222	LEU
3	DO	8	VAL
3	DO	15	MET
3	DO	16	SER
3	DO	18	VAL
3	DO	31	VAL
3	DO	35	GLN
3	DO	36	VAL
3	DO	41	THR
3	DO	42	ASN
3	DO	46	VAL
3	DO	50	THR
3	DO	51	TYR
3	DO	54	CYS
3	DO	56	ILE
3	DO	59	LYS
3	DO	63	GLU
3	DO	65	THR
3	DO	67	THR
3	DO	76	MET
3	DO	78	VAL
3	DO	84	GLU
3	DO	86	HIS
3	DO	90	VAL
3	DO	93	LEU
3	DO	95	SER
3	DO	103	SER
3	DO	107	ASN
3	DO	109	ILE
3	DO	119	LYS
3	DO	120	PHE
3	DO	121	LEU
3	DO	133	LYS
3	DO	134	THR
3	DO	139	MET

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Mol	Chain	Res	Type
3	DO	142	ILE
3	DO	146	TRP
3	DO	148	VAL
3	DO	150	LEU
3	DO	158	VAL
3	DO	162	SER
3	DO	175	THR
3	DO	188	LEU
3	DO	189	THR
3	DO	195	ASP
3	DO	204	VAL
3	DO	206	VAL
3	DO	217	ARG
3	DO	222	LEU
3	DP	8	VAL
3	DP	15	MET
3	DP	16	SER
3	DP	18	VAL
3	DP	31	VAL
3	DP	35	GLN
3	DP	36	VAL
3	DP	41	THR
3	DP	42	ASN
3	DP	46	VAL
3	DP	50	THR
3	DP	51	TYR
3	DP	54	CYS
3	DP	56	ILE
3	DP	59	LYS
3	DP	63	GLU
3	DP	65	THR
3	DP	67	THR
3	DP	76	MET
3	DP	78	VAL
3	DP	84	GLU
3	DP	86	HIS
3	DP	90	VAL
3	DP	93	LEU
3	DP	95	SER
3	DP	103	SER
3	DP	107	ASN
3	DP	109	ILE

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Mol	Chain	Res	Type
3	DP	119	LYS
3	DP	120	PHE
3	DP	121	LEU
3	DP	133	LYS
3	DP	134	THR
3	DP	139	MET
3	DP	142	ILE
3	DP	146	TRP
3	DP	148	VAL
3	DP	150	LEU
3	DP	158	VAL
3	DP	162	SER
3	DP	175	THR
3	DP	188	LEU
3	DP	189	THR
3	DP	195	ASP
3	DP	204	VAL
3	DP	206	VAL
3	DP	217	ARG
3	DP	222	LEU
3	DQ	8	VAL
3	DQ	15	MET
3	DQ	16	SER
3	DQ	18	VAL
3	DQ	31	VAL
3	DQ	35	GLN
3	DQ	36	VAL
3	DQ	41	THR
3	DQ	42	ASN
3	DQ	46	VAL
3	DQ	50	THR
3	DQ	51	TYR
3	DQ	54	CYS
3	DQ	56	ILE
3	DQ	59	LYS
3	DQ	63	GLU
3	DQ	65	THR
3	DQ	67	THR
3	DQ	76	MET
3	DQ	78	VAL
3	DQ	84	GLU
3	DQ	86	HIS

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Mol	Chain	Res	Type
3	DQ	90	VAL
3	DQ	93	LEU
3	DQ	95	SER
3	DQ	103	SER
3	DQ	107	ASN
3	DQ	109	ILE
3	DQ	119	LYS
3	DQ	120	PHE
3	DQ	121	LEU
3	DQ	133	LYS
3	DQ	134	THR
3	DQ	139	MET
3	DQ	142	ILE
3	DQ	146	TRP
3	DQ	148	VAL
3	DQ	150	LEU
3	DQ	158	VAL
3	DQ	162	SER
3	DQ	175	THR
3	DQ	188	LEU
3	DQ	189	THR
3	DQ	195	ASP
3	DQ	204	VAL
3	DQ	206	VAL
3	DQ	217	ARG
3	DQ	222	LEU
3	DR	8	VAL
3	DR	15	MET
3	DR	16	SER
3	DR	18	VAL
3	DR	31	VAL
3	DR	35	GLN
3	DR	36	VAL
3	DR	41	THR
3	DR	42	ASN
3	DR	46	VAL
3	DR	50	THR
3	DR	51	TYR
3	DR	54	CYS
3	DR	56	ILE
3	DR	59	LYS
3	DR	63	GLU

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Mol	Chain	Res	Type
3	DR	65	THR
3	DR	67	THR
3	DR	76	MET
3	DR	78	VAL
3	DR	84	GLU
3	DR	86	HIS
3	DR	90	VAL
3	DR	93	LEU
3	DR	95	SER
3	DR	103	SER
3	DR	107	ASN
3	DR	109	ILE
3	DR	119	LYS
3	DR	120	PHE
3	DR	121	LEU
3	DR	133	LYS
3	DR	134	THR
3	DR	139	MET
3	DR	142	ILE
3	DR	146	TRP
3	DR	148	VAL
3	DR	150	LEU
3	DR	158	VAL
3	DR	162	SER
3	DR	175	THR
3	DR	188	LEU
3	DR	189	THR
3	DR	195	ASP
3	DR	204	VAL
3	DR	206	VAL
3	DR	217	ARG
3	DR	222	LEU
3	DS	8	VAL
3	DS	15	MET
3	DS	16	SER
3	DS	18	VAL
3	DS	31	VAL
3	DS	35	GLN
3	DS	36	VAL
3	DS	41	THR
3	DS	42	ASN
3	DS	46	VAL

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Mol	Chain	Res	Type
3	DS	50	THR
3	DS	51	TYR
3	DS	54	CYS
3	DS	56	ILE
3	DS	59	LYS
3	DS	63	GLU
3	DS	65	THR
3	DS	67	THR
3	DS	76	MET
3	DS	78	VAL
3	DS	84	GLU
3	DS	86	HIS
3	DS	90	VAL
3	DS	93	LEU
3	DS	95	SER
3	DS	103	SER
3	DS	107	ASN
3	DS	109	ILE
3	DS	119	LYS
3	DS	120	PHE
3	DS	121	LEU
3	DS	133	LYS
3	DS	134	THR
3	DS	139	MET
3	DS	142	ILE
3	DS	146	TRP
3	DS	148	VAL
3	DS	150	LEU
3	DS	158	VAL
3	DS	162	SER
3	DS	175	THR
3	DS	188	LEU
3	DS	189	THR
3	DS	195	ASP
3	DS	204	VAL
3	DS	206	VAL
3	DS	217	ARG
3	DS	222	LEU
3	DT	8	VAL
3	DT	15	MET
3	DT	16	SER
3	DT	18	VAL

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Mol	Chain	Res	Type
3	DT	31	VAL
3	DT	35	GLN
3	DT	36	VAL
3	DT	41	THR
3	DT	42	ASN
3	DT	46	VAL
3	DT	50	THR
3	DT	51	TYR
3	DT	54	CYS
3	DT	56	ILE
3	DT	59	LYS
3	DT	63	GLU
3	DT	65	THR
3	DT	67	THR
3	DT	76	MET
3	DT	78	VAL
3	DT	84	GLU
3	DT	86	HIS
3	DT	90	VAL
3	DT	93	LEU
3	DT	95	SER
3	DT	103	SER
3	DT	107	ASN
3	DT	109	ILE
3	DT	119	LYS
3	DT	120	PHE
3	DT	121	LEU
3	DT	133	LYS
3	DT	134	THR
3	DT	139	MET
3	DT	142	ILE
3	DT	146	TRP
3	DT	148	VAL
3	DT	150	LEU
3	DT	158	VAL
3	DT	162	SER
3	DT	175	THR
3	DT	188	LEU
3	DT	189	THR
3	DT	195	ASP
3	DT	204	VAL
3	DT	206	VAL

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Mol	Chain	Res	Type
3	DT	217	ARG
3	DT	222	LEU
3	DU	8	VAL
3	DU	15	MET
3	DU	16	SER
3	DU	18	VAL
3	DU	31	VAL
3	DU	35	GLN
3	DU	36	VAL
3	DU	41	THR
3	DU	42	ASN
3	DU	46	VAL
3	DU	50	THR
3	DU	51	TYR
3	DU	54	CYS
3	DU	56	ILE
3	DU	59	LYS
3	DU	63	GLU
3	DU	65	THR
3	DU	67	THR
3	DU	76	MET
3	DU	78	VAL
3	DU	84	GLU
3	DU	86	HIS
3	DU	90	VAL
3	DU	93	LEU
3	DU	95	SER
3	DU	103	SER
3	DU	107	ASN
3	DU	109	ILE
3	DU	119	LYS
3	DU	120	PHE
3	DU	121	LEU
3	DU	133	LYS
3	DU	134	THR
3	DU	139	MET
3	DU	142	ILE
3	DU	146	TRP
3	DU	148	VAL
3	DU	150	LEU
3	DU	158	VAL
3	DU	162	SER

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Mol	Chain	Res	Type
3	DU	175	THR
3	DU	188	LEU
3	DU	189	THR
3	DU	195	ASP
3	DU	204	VAL
3	DU	206	VAL
3	DU	217	ARG
3	DU	222	LEU
3	DV	8	VAL
3	DV	15	MET
3	DV	16	SER
3	DV	18	VAL
3	DV	31	VAL
3	DV	35	GLN
3	DV	36	VAL
3	DV	41	THR
3	DV	42	ASN
3	DV	46	VAL
3	DV	50	THR
3	DV	51	TYR
3	DV	54	CYS
3	DV	56	ILE
3	DV	59	LYS
3	DV	63	GLU
3	DV	65	THR
3	DV	67	THR
3	DV	76	MET
3	DV	78	VAL
3	DV	84	GLU
3	DV	86	HIS
3	DV	90	VAL
3	DV	93	LEU
3	DV	95	SER
3	DV	103	SER
3	DV	107	ASN
3	DV	109	ILE
3	DV	119	LYS
3	DV	120	PHE
3	DV	121	LEU
3	DV	133	LYS
3	DV	134	THR
3	DV	139	MET

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Mol	Chain	Res	Type
3	DV	142	ILE
3	DV	146	TRP
3	DV	148	VAL
3	DV	150	LEU
3	DV	158	VAL
3	DV	162	SER
3	DV	175	THR
3	DV	188	LEU
3	DV	189	THR
3	DV	195	ASP
3	DV	204	VAL
3	DV	206	VAL
3	DV	217	ARG
3	DV	222	LEU
3	DW	8	VAL
3	DW	15	MET
3	DW	16	SER
3	DW	18	VAL
3	DW	31	VAL
3	DW	35	GLN
3	DW	36	VAL
3	DW	41	THR
3	DW	42	ASN
3	DW	46	VAL
3	DW	50	THR
3	DW	51	TYR
3	DW	54	CYS
3	DW	56	ILE
3	DW	59	LYS
3	DW	63	GLU
3	DW	65	THR
3	DW	67	THR
3	DW	76	MET
3	DW	78	VAL
3	DW	84	GLU
3	DW	86	HIS
3	DW	90	VAL
3	DW	93	LEU
3	DW	95	SER
3	DW	103	SER
3	DW	107	ASN
3	DW	109	ILE

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Mol	Chain	Res	Type
3	DW	119	LYS
3	DW	120	PHE
3	DW	121	LEU
3	DW	133	LYS
3	DW	134	THR
3	DW	139	MET
3	DW	142	ILE
3	DW	146	TRP
3	DW	148	VAL
3	DW	150	LEU
3	DW	158	VAL
3	DW	162	SER
3	DW	175	THR
3	DW	188	LEU
3	DW	189	THR
3	DW	195	ASP
3	DW	204	VAL
3	DW	206	VAL
3	DW	217	ARG
3	DW	222	LEU
3	DX	8	VAL
3	DX	15	MET
3	DX	16	SER
3	DX	18	VAL
3	DX	31	VAL
3	DX	35	GLN
3	DX	36	VAL
3	DX	41	THR
3	DX	42	ASN
3	DX	46	VAL
3	DX	50	THR
3	DX	51	TYR
3	DX	54	CYS
3	DX	56	ILE
3	DX	59	LYS
3	DX	63	GLU
3	DX	65	THR
3	DX	67	THR
3	DX	76	MET
3	DX	78	VAL
3	DX	84	GLU
3	DX	86	HIS

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Mol	Chain	Res	Type
3	DX	90	VAL
3	DX	93	LEU
3	DX	95	SER
3	DX	103	SER
3	DX	107	ASN
3	DX	109	ILE
3	DX	119	LYS
3	DX	120	PHE
3	DX	121	LEU
3	DX	133	LYS
3	DX	134	THR
3	DX	139	MET
3	DX	142	ILE
3	DX	146	TRP
3	DX	148	VAL
3	DX	150	LEU
3	DX	158	VAL
3	DX	162	SER
3	DX	175	THR
3	DX	188	LEU
3	DX	189	THR
3	DX	195	ASP
3	DX	204	VAL
3	DX	206	VAL
3	DX	217	ARG
3	DX	222	LEU
3	DY	8	VAL
3	DY	15	MET
3	DY	16	SER
3	DY	18	VAL
3	DY	31	VAL
3	DY	35	GLN
3	DY	36	VAL
3	DY	41	THR
3	DY	42	ASN
3	DY	46	VAL
3	DY	50	THR
3	DY	51	TYR
3	DY	54	CYS
3	DY	56	ILE
3	DY	59	LYS
3	DY	63	GLU

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Mol	Chain	Res	Type
3	DY	65	THR
3	DY	67	THR
3	DY	76	MET
3	DY	78	VAL
3	DY	84	GLU
3	DY	86	HIS
3	DY	90	VAL
3	DY	93	LEU
3	DY	95	SER
3	DY	103	SER
3	DY	107	ASN
3	DY	109	ILE
3	DY	119	LYS
3	DY	120	PHE
3	DY	121	LEU
3	DY	133	LYS
3	DY	134	THR
3	DY	139	MET
3	DY	142	ILE
3	DY	146	TRP
3	DY	148	VAL
3	DY	150	LEU
3	DY	158	VAL
3	DY	162	SER
3	DY	175	THR
3	DY	188	LEU
3	DY	189	THR
3	DY	195	ASP
3	DY	204	VAL
3	DY	206	VAL
3	DY	217	ARG
3	DY	222	LEU
3	DZ	8	VAL
3	DZ	15	MET
3	DZ	16	SER
3	DZ	18	VAL
3	DZ	31	VAL
3	DZ	35	GLN
3	DZ	36	VAL
3	DZ	41	THR
3	DZ	42	ASN
3	DZ	46	VAL

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Mol	Chain	Res	Type
3	DZ	50	THR
3	DZ	51	TYR
3	DZ	54	CYS
3	DZ	56	ILE
3	DZ	59	LYS
3	DZ	63	GLU
3	DZ	65	THR
3	DZ	67	THR
3	DZ	76	MET
3	DZ	78	VAL
3	DZ	84	GLU
3	DZ	86	HIS
3	DZ	90	VAL
3	DZ	93	LEU
3	DZ	95	SER
3	DZ	103	SER
3	DZ	107	ASN
3	DZ	109	ILE
3	DZ	119	LYS
3	DZ	120	PHE
3	DZ	121	LEU
3	DZ	133	LYS
3	DZ	134	THR
3	DZ	139	MET
3	DZ	142	ILE
3	DZ	146	TRP
3	DZ	148	VAL
3	DZ	150	LEU
3	DZ	158	VAL
3	DZ	162	SER
3	DZ	175	THR
3	DZ	188	LEU
3	DZ	189	THR
3	DZ	195	ASP
3	DZ	204	VAL
3	DZ	206	VAL
3	DZ	217	ARG
3	DZ	222	LEU
3	Da	8	VAL
3	Da	15	MET
3	Da	16	SER
3	Da	18	VAL

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Mol	Chain	Res	Type
3	Da	31	VAL
3	Da	35	GLN
3	Da	36	VAL
3	Da	41	THR
3	Da	42	ASN
3	Da	46	VAL
3	Da	50	THR
3	Da	51	TYR
3	Da	54	CYS
3	Da	56	ILE
3	Da	59	LYS
3	Da	63	GLU
3	Da	65	THR
3	Da	67	THR
3	Da	76	MET
3	Da	78	VAL
3	Da	84	GLU
3	Da	86	HIS
3	Da	90	VAL
3	Da	93	LEU
3	Da	95	SER
3	Da	103	SER
3	Da	107	ASN
3	Da	109	ILE
3	Da	119	LYS
3	Da	120	PHE
3	Da	121	LEU
3	Da	133	LYS
3	Da	134	THR
3	Da	139	MET
3	Da	142	ILE
3	Da	146	TRP
3	Da	148	VAL
3	Da	150	LEU
3	Da	158	VAL
3	Da	162	SER
3	Da	175	THR
3	Da	188	LEU
3	Da	189	THR
3	Da	195	ASP
3	Da	204	VAL
3	Da	206	VAL

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Mol	Chain	Res	Type
3	Da	217	ARG
3	Da	222	LEU
3	Db	8	VAL
3	Db	15	MET
3	Db	16	SER
3	Db	18	VAL
3	Db	31	VAL
3	Db	35	GLN
3	Db	36	VAL
3	Db	41	THR
3	Db	42	ASN
3	Db	46	VAL
3	Db	50	THR
3	Db	51	TYR
3	Db	54	CYS
3	Db	56	ILE
3	Db	59	LYS
3	Db	63	GLU
3	Db	65	THR
3	Db	67	THR
3	Db	76	MET
3	Db	78	VAL
3	Db	84	GLU
3	Db	86	HIS
3	Db	90	VAL
3	Db	93	LEU
3	Db	95	SER
3	Db	103	SER
3	Db	107	ASN
3	Db	109	ILE
3	Db	119	LYS
3	Db	120	PHE
3	Db	121	LEU
3	Db	133	LYS
3	Db	134	THR
3	Db	139	MET
3	Db	142	ILE
3	Db	146	TRP
3	Db	148	VAL
3	Db	150	LEU
3	Db	158	VAL
3	Db	162	SER

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Mol	Chain	Res	Type
3	Db	175	THR
3	Db	188	LEU
3	Db	189	THR
3	Db	195	ASP
3	Db	204	VAL
3	Db	206	VAL
3	Db	217	ARG
3	Db	222	LEU
3	Dc	8	VAL
3	Dc	15	MET
3	Dc	16	SER
3	Dc	18	VAL
3	Dc	31	VAL
3	Dc	35	GLN
3	Dc	36	VAL
3	Dc	41	THR
3	Dc	42	ASN
3	Dc	46	VAL
3	Dc	50	THR
3	Dc	51	TYR
3	Dc	54	CYS
3	Dc	56	ILE
3	Dc	59	LYS
3	Dc	63	GLU
3	Dc	65	THR
3	Dc	67	THR
3	Dc	76	MET
3	Dc	78	VAL
3	Dc	84	GLU
3	Dc	86	HIS
3	Dc	90	VAL
3	Dc	93	LEU
3	Dc	95	SER
3	Dc	103	SER
3	Dc	107	ASN
3	Dc	109	ILE
3	Dc	119	LYS
3	Dc	120	PHE
3	Dc	121	LEU
3	Dc	133	LYS
3	Dc	134	THR
3	Dc	139	MET

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Mol	Chain	Res	Type
3	Dc	142	ILE
3	Dc	146	TRP
3	Dc	148	VAL
3	Dc	150	LEU
3	Dc	158	VAL
3	Dc	162	SER
3	Dc	175	THR
3	Dc	188	LEU
3	Dc	189	THR
3	Dc	195	ASP
3	Dc	204	VAL
3	Dc	206	VAL
3	Dc	217	ARG
3	Dc	222	LEU
3	Dd	8	VAL
3	Dd	15	MET
3	Dd	16	SER
3	Dd	18	VAL
3	Dd	31	VAL
3	Dd	35	GLN
3	Dd	36	VAL
3	Dd	41	THR
3	Dd	42	ASN
3	Dd	46	VAL
3	Dd	50	THR
3	Dd	51	TYR
3	Dd	54	CYS
3	Dd	56	ILE
3	Dd	59	LYS
3	Dd	63	GLU
3	Dd	65	THR
3	Dd	67	THR
3	Dd	76	MET
3	Dd	78	VAL
3	Dd	84	GLU
3	Dd	86	HIS
3	Dd	90	VAL
3	Dd	93	LEU
3	Dd	95	SER
3	Dd	103	SER
3	Dd	107	ASN
3	Dd	109	ILE

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Mol	Chain	Res	Type
3	Dd	119	LYS
3	Dd	120	PHE
3	Dd	121	LEU
3	Dd	133	LYS
3	Dd	134	THR
3	Dd	139	MET
3	Dd	142	ILE
3	Dd	146	TRP
3	Dd	148	VAL
3	Dd	150	LEU
3	Dd	158	VAL
3	Dd	162	SER
3	Dd	175	THR
3	Dd	188	LEU
3	Dd	189	THR
3	Dd	195	ASP
3	Dd	204	VAL
3	Dd	206	VAL
3	Dd	217	ARG
3	Dd	222	LEU
3	De	8	VAL
3	De	15	MET
3	De	16	SER
3	De	18	VAL
3	De	31	VAL
3	De	35	GLN
3	De	36	VAL
3	De	41	THR
3	De	42	ASN
3	De	46	VAL
3	De	50	THR
3	De	51	TYR
3	De	54	CYS
3	De	56	ILE
3	De	59	LYS
3	De	63	GLU
3	De	65	THR
3	De	67	THR
3	De	76	MET
3	De	78	VAL
3	De	84	GLU
3	De	86	HIS

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Mol	Chain	Res	Type
3	De	90	VAL
3	De	93	LEU
3	De	95	SER
3	De	103	SER
3	De	107	ASN
3	De	109	ILE
3	De	119	LYS
3	De	120	PHE
3	De	121	LEU
3	De	133	LYS
3	De	134	THR
3	De	139	MET
3	De	142	ILE
3	De	146	TRP
3	De	148	VAL
3	De	150	LEU
3	De	158	VAL
3	De	162	SER
3	De	175	THR
3	De	188	LEU
3	De	189	THR
3	De	195	ASP
3	De	204	VAL
3	De	206	VAL
3	De	217	ARG
3	De	222	LEU
3	Df	8	VAL
3	Df	15	MET
3	Df	16	SER
3	Df	18	VAL
3	Df	31	VAL
3	Df	35	GLN
3	Df	36	VAL
3	Df	41	THR
3	Df	42	ASN
3	Df	46	VAL
3	Df	50	THR
3	Df	51	TYR
3	Df	54	CYS
3	Df	56	ILE
3	Df	59	LYS
3	Df	63	GLU

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Mol	Chain	Res	Type
3	Df	65	THR
3	Df	67	THR
3	Df	76	MET
3	Df	78	VAL
3	Df	84	GLU
3	Df	86	HIS
3	Df	90	VAL
3	Df	93	LEU
3	Df	95	SER
3	Df	103	SER
3	Df	107	ASN
3	Df	109	ILE
3	Df	119	LYS
3	Df	120	PHE
3	Df	121	LEU
3	Df	133	LYS
3	Df	134	THR
3	Df	139	MET
3	Df	142	ILE
3	Df	146	TRP
3	Df	148	VAL
3	Df	150	LEU
3	Df	158	VAL
3	Df	162	SER
3	Df	175	THR
3	Df	188	LEU
3	Df	189	THR
3	Df	195	ASP
3	Df	204	VAL
3	Df	206	VAL
3	Df	217	ARG
3	Df	222	LEU
3	Dg	8	VAL
3	Dg	15	MET
3	Dg	16	SER
3	Dg	18	VAL
3	Dg	31	VAL
3	Dg	35	GLN
3	Dg	36	VAL
3	Dg	41	THR
3	Dg	42	ASN
3	Dg	46	VAL

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Mol	Chain	Res	Type
3	Dg	50	THR
3	Dg	51	TYR
3	Dg	54	CYS
3	Dg	56	ILE
3	Dg	59	LYS
3	Dg	63	GLU
3	Dg	65	THR
3	Dg	67	THR
3	Dg	76	MET
3	Dg	78	VAL
3	Dg	84	GLU
3	Dg	86	HIS
3	Dg	90	VAL
3	Dg	93	LEU
3	Dg	95	SER
3	Dg	103	SER
3	Dg	107	ASN
3	Dg	109	ILE
3	Dg	119	LYS
3	Dg	120	PHE
3	Dg	121	LEU
3	Dg	133	LYS
3	Dg	134	THR
3	Dg	139	MET
3	Dg	142	ILE
3	Dg	146	TRP
3	Dg	148	VAL
3	Dg	150	LEU
3	Dg	158	VAL
3	Dg	162	SER
3	Dg	175	THR
3	Dg	188	LEU
3	Dg	189	THR
3	Dg	195	ASP
3	Dg	204	VAL
3	Dg	206	VAL
3	Dg	217	ARG
3	Dg	222	LEU
3	Dh	8	VAL
3	Dh	15	MET
3	Dh	16	SER
3	Dh	18	VAL

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Mol	Chain	Res	Type
3	Dh	31	VAL
3	Dh	35	GLN
3	Dh	36	VAL
3	Dh	41	THR
3	Dh	42	ASN
3	Dh	46	VAL
3	Dh	50	THR
3	Dh	51	TYR
3	Dh	54	CYS
3	Dh	56	ILE
3	Dh	59	LYS
3	Dh	63	GLU
3	Dh	65	THR
3	Dh	67	THR
3	Dh	76	MET
3	Dh	78	VAL
3	Dh	84	GLU
3	Dh	86	HIS
3	Dh	90	VAL
3	Dh	93	LEU
3	Dh	95	SER
3	Dh	103	SER
3	Dh	107	ASN
3	Dh	109	ILE
3	Dh	119	LYS
3	Dh	120	PHE
3	Dh	121	LEU
3	Dh	133	LYS
3	Dh	134	THR
3	Dh	139	MET
3	Dh	142	ILE
3	Dh	146	TRP
3	Dh	148	VAL
3	Dh	150	LEU
3	Dh	158	VAL
3	Dh	162	SER
3	Dh	175	THR
3	Dh	188	LEU
3	Dh	189	THR
3	Dh	195	ASP
3	Dh	204	VAL
3	Dh	206	VAL

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Mol	Chain	Res	Type
3	Dh	217	ARG
3	Dh	222	LEU
3	Di	8	VAL
3	Di	15	MET
3	Di	16	SER
3	Di	18	VAL
3	Di	31	VAL
3	Di	35	GLN
3	Di	36	VAL
3	Di	41	THR
3	Di	42	ASN
3	Di	46	VAL
3	Di	50	THR
3	Di	51	TYR
3	Di	54	CYS
3	Di	56	ILE
3	Di	59	LYS
3	Di	63	GLU
3	Di	65	THR
3	Di	67	THR
3	Di	76	MET
3	Di	78	VAL
3	Di	84	GLU
3	Di	86	HIS
3	Di	90	VAL
3	Di	93	LEU
3	Di	95	SER
3	Di	103	SER
3	Di	107	ASN
3	Di	109	ILE
3	Di	119	LYS
3	Di	120	PHE
3	Di	121	LEU
3	Di	133	LYS
3	Di	134	THR
3	Di	139	MET
3	Di	142	ILE
3	Di	146	TRP
3	Di	148	VAL
3	Di	150	LEU
3	Di	158	VAL
3	Di	162	SER

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Mol	Chain	Res	Type
3	Di	175	THR
3	Di	188	LEU
3	Di	189	THR
3	Di	195	ASP
3	Di	204	VAL
3	Di	206	VAL
3	Di	217	ARG
3	Di	222	LEU
3	Dj	8	VAL
3	Dj	15	MET
3	Dj	16	SER
3	Dj	18	VAL
3	Dj	31	VAL
3	Dj	35	GLN
3	Dj	36	VAL
3	Dj	41	THR
3	Dj	42	ASN
3	Dj	46	VAL
3	Dj	50	THR
3	Dj	51	TYR
3	Dj	54	CYS
3	Dj	56	ILE
3	Dj	59	LYS
3	Dj	63	GLU
3	Dj	65	THR
3	Dj	67	THR
3	Dj	76	MET
3	Dj	78	VAL
3	Dj	84	GLU
3	Dj	86	HIS
3	Dj	90	VAL
3	Dj	93	LEU
3	Dj	95	SER
3	Dj	103	SER
3	Dj	107	ASN
3	Dj	109	ILE
3	Dj	119	LYS
3	Dj	120	PHE
3	Dj	121	LEU
3	Dj	133	LYS
3	Dj	134	THR
3	Dj	139	MET

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Mol	Chain	Res	Type
3	Dj	142	ILE
3	Dj	146	TRP
3	Dj	148	VAL
3	Dj	150	LEU
3	Dj	158	VAL
3	Dj	162	SER
3	Dj	175	THR
3	Dj	188	LEU
3	Dj	189	THR
3	Dj	195	ASP
3	Dj	204	VAL
3	Dj	206	VAL
3	Dj	217	ARG
3	Dj	222	LEU
3	Dk	8	VAL
3	Dk	15	MET
3	Dk	16	SER
3	Dk	18	VAL
3	Dk	31	VAL
3	Dk	35	GLN
3	Dk	36	VAL
3	Dk	41	THR
3	Dk	42	ASN
3	Dk	46	VAL
3	Dk	50	THR
3	Dk	51	TYR
3	Dk	54	CYS
3	Dk	56	ILE
3	Dk	59	LYS
3	Dk	63	GLU
3	Dk	65	THR
3	Dk	67	THR
3	Dk	76	MET
3	Dk	78	VAL
3	Dk	84	GLU
3	Dk	86	HIS
3	Dk	90	VAL
3	Dk	93	LEU
3	Dk	95	SER
3	Dk	103	SER
3	Dk	107	ASN
3	Dk	109	ILE

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Mol	Chain	Res	Type
3	Dk	119	LYS
3	Dk	120	PHE
3	Dk	121	LEU
3	Dk	133	LYS
3	Dk	134	THR
3	Dk	139	MET
3	Dk	142	ILE
3	Dk	146	TRP
3	Dk	148	VAL
3	Dk	150	LEU
3	Dk	158	VAL
3	Dk	162	SER
3	Dk	175	THR
3	Dk	188	LEU
3	Dk	189	THR
3	Dk	195	ASP
3	Dk	204	VAL
3	Dk	206	VAL
3	Dk	217	ARG
3	Dk	222	LEU
3	Dl	8	VAL
3	Dl	15	MET
3	Dl	16	SER
3	Dl	18	VAL
3	Dl	31	VAL
3	Dl	35	GLN
3	Dl	36	VAL
3	Dl	41	THR
3	Dl	42	ASN
3	Dl	46	VAL
3	Dl	50	THR
3	Dl	51	TYR
3	Dl	54	CYS
3	Dl	56	ILE
3	Dl	59	LYS
3	Dl	63	GLU
3	Dl	65	THR
3	Dl	67	THR
3	Dl	76	MET
3	Dl	78	VAL
3	Dl	84	GLU
3	Dl	86	HIS

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Mol	Chain	Res	Type
3	Dl	90	VAL
3	Dl	93	LEU
3	Dl	95	SER
3	Dl	103	SER
3	Dl	107	ASN
3	Dl	109	ILE
3	Dl	119	LYS
3	Dl	120	PHE
3	Dl	121	LEU
3	Dl	133	LYS
3	Dl	134	THR
3	Dl	139	MET
3	Dl	142	ILE
3	Dl	146	TRP
3	Dl	148	VAL
3	Dl	150	LEU
3	Dl	158	VAL
3	Dl	162	SER
3	Dl	175	THR
3	Dl	188	LEU
3	Dl	189	THR
3	Dl	195	ASP
3	Dl	204	VAL
3	Dl	206	VAL
3	Dl	217	ARG
3	Dl	222	LEU
3	Dm	8	VAL
3	Dm	15	MET
3	Dm	16	SER
3	Dm	18	VAL
3	Dm	31	VAL
3	Dm	35	GLN
3	Dm	36	VAL
3	Dm	41	THR
3	Dm	42	ASN
3	Dm	46	VAL
3	Dm	50	THR
3	Dm	51	TYR
3	Dm	54	CYS
3	Dm	56	ILE
3	Dm	59	LYS
3	Dm	63	GLU

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Mol	Chain	Res	Type
3	Dm	65	THR
3	Dm	67	THR
3	Dm	76	MET
3	Dm	78	VAL
3	Dm	84	GLU
3	Dm	86	HIS
3	Dm	90	VAL
3	Dm	93	LEU
3	Dm	95	SER
3	Dm	103	SER
3	Dm	107	ASN
3	Dm	109	ILE
3	Dm	119	LYS
3	Dm	120	PHE
3	Dm	121	LEU
3	Dm	133	LYS
3	Dm	134	THR
3	Dm	139	MET
3	Dm	142	ILE
3	Dm	146	TRP
3	Dm	148	VAL
3	Dm	150	LEU
3	Dm	158	VAL
3	Dm	162	SER
3	Dm	175	THR
3	Dm	188	LEU
3	Dm	189	THR
3	Dm	195	ASP
3	Dm	204	VAL
3	Dm	206	VAL
3	Dm	217	ARG
3	Dm	222	LEU
3	Dn	8	VAL
3	Dn	15	MET
3	Dn	16	SER
3	Dn	18	VAL
3	Dn	31	VAL
3	Dn	35	GLN
3	Dn	36	VAL
3	Dn	41	THR
3	Dn	42	ASN
3	Dn	46	VAL

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Mol	Chain	Res	Type
3	Dn	50	THR
3	Dn	51	TYR
3	Dn	54	CYS
3	Dn	56	ILE
3	Dn	59	LYS
3	Dn	63	GLU
3	Dn	65	THR
3	Dn	67	THR
3	Dn	76	MET
3	Dn	78	VAL
3	Dn	84	GLU
3	Dn	86	HIS
3	Dn	90	VAL
3	Dn	93	LEU
3	Dn	95	SER
3	Dn	103	SER
3	Dn	107	ASN
3	Dn	109	ILE
3	Dn	119	LYS
3	Dn	120	PHE
3	Dn	121	LEU
3	Dn	133	LYS
3	Dn	134	THR
3	Dn	139	MET
3	Dn	142	ILE
3	Dn	146	TRP
3	Dn	148	VAL
3	Dn	150	LEU
3	Dn	158	VAL
3	Dn	162	SER
3	Dn	175	THR
3	Dn	188	LEU
3	Dn	189	THR
3	Dn	195	ASP
3	Dn	204	VAL
3	Dn	206	VAL
3	Dn	217	ARG
3	Dn	222	LEU
3	Do	8	VAL
3	Do	15	MET
3	Do	16	SER
3	Do	18	VAL

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Mol	Chain	Res	Type
3	Do	31	VAL
3	Do	35	GLN
3	Do	36	VAL
3	Do	41	THR
3	Do	42	ASN
3	Do	46	VAL
3	Do	50	THR
3	Do	51	TYR
3	Do	54	CYS
3	Do	56	ILE
3	Do	59	LYS
3	Do	63	GLU
3	Do	65	THR
3	Do	67	THR
3	Do	76	MET
3	Do	78	VAL
3	Do	84	GLU
3	Do	86	HIS
3	Do	90	VAL
3	Do	93	LEU
3	Do	95	SER
3	Do	103	SER
3	Do	107	ASN
3	Do	109	ILE
3	Do	119	LYS
3	Do	120	PHE
3	Do	121	LEU
3	Do	133	LYS
3	Do	134	THR
3	Do	139	MET
3	Do	142	ILE
3	Do	146	TRP
3	Do	148	VAL
3	Do	150	LEU
3	Do	158	VAL
3	Do	162	SER
3	Do	175	THR
3	Do	188	LEU
3	Do	189	THR
3	Do	195	ASP
3	Do	204	VAL
3	Do	206	VAL

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Mol	Chain	Res	Type
3	Do	217	ARG
3	Do	222	LEU
3	Dp	8	VAL
3	Dp	15	MET
3	Dp	16	SER
3	Dp	18	VAL
3	Dp	31	VAL
3	Dp	35	GLN
3	Dp	36	VAL
3	Dp	41	THR
3	Dp	42	ASN
3	Dp	46	VAL
3	Dp	50	THR
3	Dp	51	TYR
3	Dp	54	CYS
3	Dp	56	ILE
3	Dp	59	LYS
3	Dp	63	GLU
3	Dp	65	THR
3	Dp	67	THR
3	Dp	76	MET
3	Dp	78	VAL
3	Dp	84	GLU
3	Dp	86	HIS
3	Dp	90	VAL
3	Dp	93	LEU
3	Dp	95	SER
3	Dp	103	SER
3	Dp	107	ASN
3	Dp	109	ILE
3	Dp	119	LYS
3	Dp	120	PHE
3	Dp	121	LEU
3	Dp	133	LYS
3	Dp	134	THR
3	Dp	139	MET
3	Dp	142	ILE
3	Dp	146	TRP
3	Dp	148	VAL
3	Dp	150	LEU
3	Dp	158	VAL
3	Dp	162	SER

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Mol	Chain	Res	Type
3	Dp	175	THR
3	Dp	188	LEU
3	Dp	189	THR
3	Dp	195	ASP
3	Dp	204	VAL
3	Dp	206	VAL
3	Dp	217	ARG
3	Dp	222	LEU
3	Dq	8	VAL
3	Dq	15	MET
3	Dq	16	SER
3	Dq	18	VAL
3	Dq	31	VAL
3	Dq	35	GLN
3	Dq	36	VAL
3	Dq	41	THR
3	Dq	42	ASN
3	Dq	46	VAL
3	Dq	50	THR
3	Dq	51	TYR
3	Dq	54	CYS
3	Dq	56	ILE
3	Dq	59	LYS
3	Dq	63	GLU
3	Dq	65	THR
3	Dq	67	THR
3	Dq	76	MET
3	Dq	78	VAL
3	Dq	84	GLU
3	Dq	86	HIS
3	Dq	90	VAL
3	Dq	93	LEU
3	Dq	95	SER
3	Dq	103	SER
3	Dq	107	ASN
3	Dq	109	ILE
3	Dq	119	LYS
3	Dq	120	PHE
3	Dq	121	LEU
3	Dq	133	LYS
3	Dq	134	THR
3	Dq	139	MET

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Mol	Chain	Res	Type
3	Dq	142	ILE
3	Dq	146	TRP
3	Dq	148	VAL
3	Dq	150	LEU
3	Dq	158	VAL
3	Dq	162	SER
3	Dq	175	THR
3	Dq	188	LEU
3	Dq	189	THR
3	Dq	195	ASP
3	Dq	204	VAL
3	Dq	206	VAL
3	Dq	217	ARG
3	Dq	222	LEU
3	Dr	8	VAL
3	Dr	15	MET
3	Dr	16	SER
3	Dr	18	VAL
3	Dr	31	VAL
3	Dr	35	GLN
3	Dr	36	VAL
3	Dr	41	THR
3	Dr	42	ASN
3	Dr	46	VAL
3	Dr	50	THR
3	Dr	51	TYR
3	Dr	54	CYS
3	Dr	56	ILE
3	Dr	59	LYS
3	Dr	63	GLU
3	Dr	65	THR
3	Dr	67	THR
3	Dr	76	MET
3	Dr	78	VAL
3	Dr	84	GLU
3	Dr	86	HIS
3	Dr	90	VAL
3	Dr	93	LEU
3	Dr	95	SER
3	Dr	103	SER
3	Dr	107	ASN
3	Dr	109	ILE

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Mol	Chain	Res	Type
3	Dr	119	LYS
3	Dr	120	PHE
3	Dr	121	LEU
3	Dr	133	LYS
3	Dr	134	THR
3	Dr	139	MET
3	Dr	142	ILE
3	Dr	146	TRP
3	Dr	148	VAL
3	Dr	150	LEU
3	Dr	158	VAL
3	Dr	162	SER
3	Dr	175	THR
3	Dr	188	LEU
3	Dr	189	THR
3	Dr	195	ASP
3	Dr	204	VAL
3	Dr	206	VAL
3	Dr	217	ARG
3	Dr	222	LEU
3	Ds	8	VAL
3	Ds	15	MET
3	Ds	16	SER
3	Ds	18	VAL
3	Ds	31	VAL
3	Ds	35	GLN
3	Ds	36	VAL
3	Ds	41	THR
3	Ds	42	ASN
3	Ds	46	VAL
3	Ds	50	THR
3	Ds	51	TYR
3	Ds	54	CYS
3	Ds	56	ILE
3	Ds	59	LYS
3	Ds	63	GLU
3	Ds	65	THR
3	Ds	67	THR
3	Ds	76	MET
3	Ds	78	VAL
3	Ds	84	GLU
3	Ds	86	HIS

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Mol	Chain	Res	Type
3	Ds	90	VAL
3	Ds	93	LEU
3	Ds	95	SER
3	Ds	103	SER
3	Ds	107	ASN
3	Ds	109	ILE
3	Ds	119	LYS
3	Ds	120	PHE
3	Ds	121	LEU
3	Ds	133	LYS
3	Ds	134	THR
3	Ds	139	MET
3	Ds	142	ILE
3	Ds	146	TRP
3	Ds	148	VAL
3	Ds	150	LEU
3	Ds	158	VAL
3	Ds	162	SER
3	Ds	175	THR
3	Ds	188	LEU
3	Ds	189	THR
3	Ds	195	ASP
3	Ds	204	VAL
3	Ds	206	VAL
3	Ds	217	ARG
3	Ds	222	LEU
3	EA	8	VAL
3	EA	15	MET
3	EA	16	SER
3	EA	18	VAL
3	EA	31	VAL
3	EA	35	GLN
3	EA	36	VAL
3	EA	41	THR
3	EA	42	ASN
3	EA	46	VAL
3	EA	50	THR
3	EA	51	TYR
3	EA	54	CYS
3	EA	56	ILE
3	EA	59	LYS
3	EA	63	GLU

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Mol	Chain	Res	Type
3	EA	65	THR
3	EA	67	THR
3	EA	76	MET
3	EA	78	VAL
3	EA	84	GLU
3	EA	86	HIS
3	EA	90	VAL
3	EA	93	LEU
3	EA	95	SER
3	EA	103	SER
3	EA	107	ASN
3	EA	109	ILE
3	EA	119	LYS
3	EA	120	PHE
3	EA	121	LEU
3	EA	133	LYS
3	EA	134	THR
3	EA	139	MET
3	EA	142	ILE
3	EA	146	TRP
3	EA	148	VAL
3	EA	150	LEU
3	EA	158	VAL
3	EA	162	SER
3	EA	175	THR
3	EA	188	LEU
3	EA	189	THR
3	EA	195	ASP
3	EA	204	VAL
3	EA	206	VAL
3	EA	217	ARG
3	EA	222	LEU
3	EB	8	VAL
3	EB	15	MET
3	EB	16	SER
3	EB	18	VAL
3	EB	31	VAL
3	EB	35	GLN
3	EB	36	VAL
3	EB	41	THR
3	EB	42	ASN
3	EB	46	VAL

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Mol	Chain	Res	Type
3	EB	50	THR
3	EB	51	TYR
3	EB	54	CYS
3	EB	56	ILE
3	EB	59	LYS
3	EB	63	GLU
3	EB	65	THR
3	EB	67	THR
3	EB	76	MET
3	EB	78	VAL
3	EB	84	GLU
3	EB	86	HIS
3	EB	90	VAL
3	EB	93	LEU
3	EB	95	SER
3	EB	103	SER
3	EB	107	ASN
3	EB	109	ILE
3	EB	119	LYS
3	EB	120	PHE
3	EB	121	LEU
3	EB	133	LYS
3	EB	134	THR
3	EB	139	MET
3	EB	142	ILE
3	EB	146	TRP
3	EB	148	VAL
3	EB	150	LEU
3	EB	158	VAL
3	EB	162	SER
3	EB	175	THR
3	EB	188	LEU
3	EB	189	THR
3	EB	195	ASP
3	EB	204	VAL
3	EB	206	VAL
3	EB	217	ARG
3	EB	222	LEU
3	EC	8	VAL
3	EC	15	MET
3	EC	16	SER
3	EC	18	VAL

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Mol	Chain	Res	Type
3	EC	31	VAL
3	EC	35	GLN
3	EC	36	VAL
3	EC	41	THR
3	EC	42	ASN
3	EC	46	VAL
3	EC	50	THR
3	EC	51	TYR
3	EC	54	CYS
3	EC	56	ILE
3	EC	59	LYS
3	EC	63	GLU
3	EC	65	THR
3	EC	67	THR
3	EC	76	MET
3	EC	78	VAL
3	EC	84	GLU
3	EC	86	HIS
3	EC	90	VAL
3	EC	93	LEU
3	EC	95	SER
3	EC	103	SER
3	EC	107	ASN
3	EC	109	ILE
3	EC	119	LYS
3	EC	120	PHE
3	EC	121	LEU
3	EC	133	LYS
3	EC	134	THR
3	EC	139	MET
3	EC	142	ILE
3	EC	146	TRP
3	EC	148	VAL
3	EC	150	LEU
3	EC	158	VAL
3	EC	162	SER
3	EC	175	THR
3	EC	188	LEU
3	EC	189	THR
3	EC	195	ASP
3	EC	204	VAL
3	EC	206	VAL

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Mol	Chain	Res	Type
3	EC	217	ARG
3	EC	222	LEU
3	ED	8	VAL
3	ED	15	MET
3	ED	16	SER
3	ED	18	VAL
3	ED	31	VAL
3	ED	35	GLN
3	ED	36	VAL
3	ED	41	THR
3	ED	42	ASN
3	ED	46	VAL
3	ED	50	THR
3	ED	51	TYR
3	ED	54	CYS
3	ED	56	ILE
3	ED	59	LYS
3	ED	63	GLU
3	ED	65	THR
3	ED	67	THR
3	ED	76	MET
3	ED	78	VAL
3	ED	84	GLU
3	ED	86	HIS
3	ED	90	VAL
3	ED	93	LEU
3	ED	95	SER
3	ED	103	SER
3	ED	107	ASN
3	ED	109	ILE
3	ED	119	LYS
3	ED	120	PHE
3	ED	121	LEU
3	ED	133	LYS
3	ED	134	THR
3	ED	139	MET
3	ED	142	ILE
3	ED	146	TRP
3	ED	148	VAL
3	ED	150	LEU
3	ED	158	VAL
3	ED	162	SER

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Mol	Chain	Res	Type
3	ED	175	THR
3	ED	188	LEU
3	ED	189	THR
3	ED	195	ASP
3	ED	204	VAL
3	ED	206	VAL
3	ED	217	ARG
3	ED	222	LEU
3	EE	8	VAL
3	EE	15	MET
3	EE	16	SER
3	EE	18	VAL
3	EE	31	VAL
3	EE	35	GLN
3	EE	36	VAL
3	EE	41	THR
3	EE	42	ASN
3	EE	46	VAL
3	EE	50	THR
3	EE	51	TYR
3	EE	54	CYS
3	EE	56	ILE
3	EE	59	LYS
3	EE	63	GLU
3	EE	65	THR
3	EE	67	THR
3	EE	76	MET
3	EE	78	VAL
3	EE	84	GLU
3	EE	86	HIS
3	EE	90	VAL
3	EE	93	LEU
3	EE	95	SER
3	EE	103	SER
3	EE	107	ASN
3	EE	109	ILE
3	EE	119	LYS
3	EE	120	PHE
3	EE	121	LEU
3	EE	133	LYS
3	EE	134	THR
3	EE	139	MET

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Mol	Chain	Res	Type
3	EE	142	ILE
3	EE	146	TRP
3	EE	148	VAL
3	EE	150	LEU
3	EE	158	VAL
3	EE	162	SER
3	EE	175	THR
3	EE	188	LEU
3	EE	189	THR
3	EE	195	ASP
3	EE	204	VAL
3	EE	206	VAL
3	EE	217	ARG
3	EE	222	LEU
4	F0	17	ASN
4	F0	33	SER
4	F1	17	ASN
4	F1	30	TYR
4	F1	33	SER
4	F2	17	ASN
4	F2	33	SER
4	F3	17	ASN
4	F3	30	TYR
4	F3	33	SER
4	F4	17	ASN
4	F4	30	TYR
4	F4	33	SER
4	F5	17	ASN
4	F5	30	TYR
4	F5	33	SER
4	F6	17	ASN
4	F6	30	TYR
4	F6	33	SER
4	F7	17	ASN
4	F7	33	SER
4	F8	17	ASN
4	F8	30	TYR
4	F8	33	SER
4	F9	17	ASN
4	F9	30	TYR
4	F9	33	SER
4	FA	17	ASN

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Mol	Chain	Res	Type
4	FA	30	TYR
4	FA	33	SER
4	FB	17	ASN
4	FB	30	TYR
4	FB	33	SER
4	FC	17	ASN
4	FC	30	TYR
4	FC	33	SER
4	FD	17	ASN
4	FD	30	TYR
4	FD	33	SER
4	FE	17	ASN
4	FE	33	SER
4	FF	17	ASN
4	FF	30	TYR
4	FF	33	SER
4	FG	17	ASN
4	FG	30	TYR
4	FG	33	SER
4	FH	17	ASN
4	FH	30	TYR
4	FH	33	SER
4	FI	17	ASN
4	FI	30	TYR
4	FI	33	SER
4	FJ	17	ASN
4	FJ	30	TYR
4	FJ	33	SER
4	FK	17	ASN
4	FK	33	SER
4	FL	17	ASN
4	FL	30	TYR
4	FL	33	SER
4	FM	17	ASN
4	FM	30	TYR
4	FM	33	SER
4	FN	17	ASN
4	FN	30	TYR
4	FN	33	SER
4	FO	17	ASN
4	FO	30	TYR
4	FO	33	SER

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Mol	Chain	Res	Type
4	FP	17	ASN
4	FP	33	SER
4	FQ	17	ASN
4	FQ	30	TYR
4	FQ	33	SER
4	FR	17	ASN
4	FR	33	SER
4	FS	17	ASN
4	FS	33	SER
4	FT	17	ASN
4	FT	30	TYR
4	FT	33	SER
4	FU	17	ASN
4	FU	30	TYR
4	FU	33	SER
4	FV	17	ASN
4	FV	30	TYR
4	FV	33	SER
4	FW	17	ASN
4	FW	33	SER
4	FX	17	ASN
4	FX	33	SER
4	FY	17	ASN
4	FY	33	SER
4	FZ	17	ASN
4	FZ	33	SER
4	Fa	17	ASN
4	Fa	33	SER
4	Fb	17	ASN
4	Fb	30	TYR
4	Fb	33	SER
4	Fc	17	ASN
4	Fc	33	SER
4	Fd	17	ASN
4	Fd	30	TYR
4	Fd	33	SER
4	Fe	17	ASN
4	Fe	33	SER
4	Ff	17	ASN
4	Ff	30	TYR
4	Ff	33	SER
4	Fg	17	ASN

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Mol	Chain	Res	Type
4	Fg	33	SER
4	Fh	17	ASN
4	Fh	33	SER
4	Fi	17	ASN
4	Fi	30	TYR
4	Fi	33	SER
4	Fj	17	ASN
4	Fj	30	TYR
4	Fj	33	SER
4	Fk	17	ASN
4	Fk	30	TYR
4	Fk	33	SER
4	Fl	17	ASN
4	Fl	33	SER
4	Fm	17	ASN
4	Fm	30	TYR
4	Fm	33	SER
4	Fn	17	ASN
4	Fn	30	TYR
4	Fn	33	SER
4	Fo	17	ASN
4	Fo	30	TYR
4	Fo	33	SER
4	Fp	17	ASN
4	Fp	33	SER
4	Fq	17	ASN
4	Fq	30	TYR
4	Fq	33	SER
4	Fr	17	ASN
4	Fr	30	TYR
4	Fr	33	SER
4	Fs	17	ASN
4	Fs	30	TYR
4	Fs	33	SER
4	Ft	17	ASN
4	Ft	30	TYR
4	Ft	33	SER
4	Fu	17	ASN
4	Fu	30	TYR
4	Fu	33	SER
4	Fv	17	ASN
4	Fv	33	SER

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Mol	Chain	Res	Type
4	Fw	17	ASN
4	Fw	33	SER
4	Fx	17	ASN
4	Fx	30	TYR
4	Fx	33	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1415) such sidechains are listed below:

Mol	Chain	Res	Type
1	A0	27	HIS
1	A0	47	ASN
1	A0	73	ASN
1	A0	152	GLN
1	A0	191	HIS
1	A0	202	HIS
1	A0	242	ASN
1	A1	27	HIS
1	A1	47	ASN
1	A1	73	ASN
1	A1	152	GLN
1	A1	191	HIS
1	A1	202	HIS
1	A1	242	ASN
1	A2	27	HIS
1	A2	47	ASN
1	A2	73	ASN
1	A2	152	GLN
1	A2	191	HIS
1	A2	202	HIS
1	A2	242	ASN
1	A3	27	HIS
1	A3	47	ASN
1	A3	73	ASN
1	A3	152	GLN
1	A3	191	HIS
1	A3	202	HIS
1	A3	242	ASN
1	A4	47	ASN
1	A4	73	ASN
1	A4	152	GLN
1	A4	191	HIS
1	A4	202	HIS

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Mol	Chain	Res	Type
1	A4	242	ASN
1	A5	27	HIS
1	A5	47	ASN
1	A5	73	ASN
1	A5	152	GLN
1	A5	191	HIS
1	A5	202	HIS
1	A5	242	ASN
1	A6	47	ASN
1	A6	73	ASN
1	A6	152	GLN
1	A6	191	HIS
1	A6	202	HIS
1	A6	242	ASN
1	A7	27	HIS
1	A7	47	ASN
1	A7	73	ASN
1	A7	152	GLN
1	A7	191	HIS
1	A7	202	HIS
1	A7	242	ASN
1	A8	47	ASN
1	A8	73	ASN
1	A8	152	GLN
1	A8	191	HIS
1	A8	202	HIS
1	A8	242	ASN
1	A9	27	HIS
1	A9	47	ASN
1	A9	73	ASN
1	A9	152	GLN
1	A9	191	HIS
1	A9	202	HIS
1	A9	242	ASN
1	AA	27	HIS
1	AA	47	ASN
1	AA	73	ASN
1	AA	87	GLN
1	AA	152	GLN
1	AA	191	HIS
1	AA	202	HIS
1	AA	242	ASN

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Mol	Chain	Res	Type
1	AB	27	HIS
1	AB	47	ASN
1	AB	73	ASN
1	AB	87	GLN
1	AB	152	GLN
1	AB	191	HIS
1	AB	202	HIS
1	AB	242	ASN
1	AC	27	HIS
1	AC	47	ASN
1	AC	73	ASN
1	AC	87	GLN
1	AC	152	GLN
1	AC	191	HIS
1	AC	202	HIS
1	AC	242	ASN
1	AD	27	HIS
1	AD	47	ASN
1	AD	73	ASN
1	AD	152	GLN
1	AD	191	HIS
1	AD	202	HIS
1	AD	242	ASN
1	AE	27	HIS
1	AE	47	ASN
1	AE	73	ASN
1	AE	87	GLN
1	AE	152	GLN
1	AE	191	HIS
1	AE	202	HIS
1	AE	242	ASN
1	AF	27	HIS
1	AF	47	ASN
1	AF	73	ASN
1	AF	152	GLN
1	AF	191	HIS
1	AF	202	HIS
1	AF	242	ASN
1	AG	47	ASN
1	AG	73	ASN
1	AG	152	GLN
1	AG	191	HIS

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Mol	Chain	Res	Type
1	AG	202	HIS
1	AG	242	ASN
1	AH	27	HIS
1	AH	47	ASN
1	AH	73	ASN
1	AH	87	GLN
1	AH	152	GLN
1	AH	191	HIS
1	AH	202	HIS
1	AH	242	ASN
1	AI	27	HIS
1	AI	47	ASN
1	AI	73	ASN
1	AI	152	GLN
1	AI	191	HIS
1	AI	202	HIS
1	AI	242	ASN
1	AJ	27	HIS
1	AJ	47	ASN
1	AJ	73	ASN
1	AJ	87	GLN
1	AJ	152	GLN
1	AJ	202	HIS
1	AJ	242	ASN
1	AK	27	HIS
1	AK	47	ASN
1	AK	73	ASN
1	AK	152	GLN
1	AK	191	HIS
1	AK	202	HIS
1	AK	242	ASN
1	AL	47	ASN
1	AL	73	ASN
1	AL	152	GLN
1	AL	191	HIS
1	AL	202	HIS
1	AL	242	ASN
1	AM	27	HIS
1	AM	47	ASN
1	AM	73	ASN
1	AM	152	GLN
1	AM	191	HIS

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Mol	Chain	Res	Type
1	AM	202	HIS
1	AM	242	ASN
1	AN	27	HIS
1	AN	47	ASN
1	AN	73	ASN
1	AN	87	GLN
1	AN	152	GLN
1	AN	191	HIS
1	AN	202	HIS
1	AN	242	ASN
1	AO	27	HIS
1	AO	47	ASN
1	AO	73	ASN
1	AO	87	GLN
1	AO	152	GLN
1	AO	191	HIS
1	AO	202	HIS
1	AO	242	ASN
1	AP	27	HIS
1	AP	47	ASN
1	AP	73	ASN
1	AP	152	GLN
1	AP	191	HIS
1	AP	202	HIS
1	AP	242	ASN
1	AQ	27	HIS
1	AQ	47	ASN
1	AQ	73	ASN
1	AQ	152	GLN
1	AQ	191	HIS
1	AQ	202	HIS
1	AQ	242	ASN
1	AR	27	HIS
1	AR	47	ASN
1	AR	73	ASN
1	AR	87	GLN
1	AR	152	GLN
1	AR	191	HIS
1	AR	202	HIS
1	AR	242	ASN
1	AS	27	HIS
1	AS	47	ASN

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Mol	Chain	Res	Type
1	AS	73	ASN
1	AS	152	GLN
1	AS	191	HIS
1	AS	202	HIS
1	AS	242	ASN
1	AT	47	ASN
1	AT	73	ASN
1	AT	152	GLN
1	AT	191	HIS
1	AT	202	HIS
1	AT	242	ASN
1	AU	27	HIS
1	AU	47	ASN
1	AU	73	ASN
1	AU	152	GLN
1	AU	191	HIS
1	AU	202	HIS
1	AU	242	ASN
1	AV	47	ASN
1	AV	73	ASN
1	AV	152	GLN
1	AV	191	HIS
1	AV	202	HIS
1	AV	242	ASN
1	AW	27	HIS
1	AW	47	ASN
1	AW	73	ASN
1	AW	152	GLN
1	AW	191	HIS
1	AW	202	HIS
1	AW	242	ASN
1	AX	47	ASN
1	AX	73	ASN
1	AX	152	GLN
1	AX	191	HIS
1	AX	202	HIS
1	AX	242	ASN
1	AY	27	HIS
1	AY	47	ASN
1	AY	73	ASN
1	AY	152	GLN
1	AY	191	HIS

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Mol	Chain	Res	Type
1	AY	202	HIS
1	AY	242	ASN
1	AZ	27	HIS
1	AZ	47	ASN
1	AZ	73	ASN
1	AZ	87	GLN
1	AZ	152	GLN
1	AZ	191	HIS
1	AZ	202	HIS
1	AZ	242	ASN
1	Aa	27	HIS
1	Aa	47	ASN
1	Aa	73	ASN
1	Aa	152	GLN
1	Aa	191	HIS
1	Aa	202	HIS
1	Aa	242	ASN
1	Ab	47	ASN
1	Ab	73	ASN
1	Ab	87	GLN
1	Ab	152	GLN
1	Ab	191	HIS
1	Ab	202	HIS
1	Ab	242	ASN
1	Ac	27	HIS
1	Ac	47	ASN
1	Ac	73	ASN
1	Ac	152	GLN
1	Ac	191	HIS
1	Ac	202	HIS
1	Ac	242	ASN
1	Ad	27	HIS
1	Ad	47	ASN
1	Ad	73	ASN
1	Ad	87	GLN
1	Ad	152	GLN
1	Ad	191	HIS
1	Ad	202	HIS
1	Ad	242	ASN
1	Ae	27	HIS
1	Ae	47	ASN
1	Ae	73	ASN

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Mol	Chain	Res	Type
1	Ae	87	GLN
1	Ae	152	GLN
1	Ae	202	HIS
1	Ae	242	ASN
1	Af	27	HIS
1	Af	47	ASN
1	Af	73	ASN
1	Af	152	GLN
1	Af	191	HIS
1	Af	202	HIS
1	Af	242	ASN
1	Ag	47	ASN
1	Ag	73	ASN
1	Ag	152	GLN
1	Ag	191	HIS
1	Ag	202	HIS
1	Ag	242	ASN
1	Ah	27	HIS
1	Ah	47	ASN
1	Ah	73	ASN
1	Ah	87	GLN
1	Ah	152	GLN
1	Ah	191	HIS
1	Ah	202	HIS
1	Ah	242	ASN
1	Ai	27	HIS
1	Ai	47	ASN
1	Ai	73	ASN
1	Ai	152	GLN
1	Ai	191	HIS
1	Ai	202	HIS
1	Ai	242	ASN
1	Aj	27	HIS
1	Aj	47	ASN
1	Aj	73	ASN
1	Aj	152	GLN
1	Aj	191	HIS
1	Aj	202	HIS
1	Aj	242	ASN
1	Ak	27	HIS
1	Ak	47	ASN
1	Ak	73	ASN

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Mol	Chain	Res	Type
1	Ak	152	GLN
1	Ak	191	HIS
1	Ak	202	HIS
1	Ak	242	ASN
1	Al	27	HIS
1	Al	47	ASN
1	Al	73	ASN
1	Al	152	GLN
1	Al	191	HIS
1	Al	202	HIS
1	Al	242	ASN
1	Am	47	ASN
1	Am	73	ASN
1	Am	87	GLN
1	Am	152	GLN
1	Am	191	HIS
1	Am	202	HIS
1	Am	242	ASN
1	An	27	HIS
1	An	47	ASN
1	An	73	ASN
1	An	152	GLN
1	An	191	HIS
1	An	202	HIS
1	An	242	ASN
1	Ao	47	ASN
1	Ao	73	ASN
1	Ao	152	GLN
1	Ao	191	HIS
1	Ao	202	HIS
1	Ao	242	ASN
1	BA	47	ASN
1	BA	73	ASN
1	BA	152	GLN
1	BA	191	HIS
1	BA	202	HIS
1	BA	242	ASN
1	BB	27	HIS
1	BB	47	ASN
1	BB	73	ASN
1	BB	87	GLN
1	BB	152	GLN

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Mol	Chain	Res	Type
1	BB	191	HIS
1	BB	202	HIS
1	BB	242	ASN
1	BC	27	HIS
1	BC	47	ASN
1	BC	73	ASN
1	BC	152	GLN
1	BC	191	HIS
1	BC	202	HIS
1	BC	242	ASN
1	BD	27	HIS
1	BD	47	ASN
1	BD	73	ASN
1	BD	152	GLN
1	BD	191	HIS
1	BD	202	HIS
1	BD	242	ASN
1	BE	47	ASN
1	BE	73	ASN
1	BE	152	GLN
1	BE	191	HIS
1	BE	202	HIS
1	BE	242	ASN
1	BF	47	ASN
1	BF	73	ASN
1	BF	152	GLN
1	BF	191	HIS
1	BF	202	HIS
1	BF	242	ASN
1	BG	47	ASN
1	BG	73	ASN
1	BG	152	GLN
1	BG	191	HIS
1	BG	202	HIS
1	BG	242	ASN
1	BH	47	ASN
1	BH	73	ASN
1	BH	152	GLN
1	BH	191	HIS
1	BH	202	HIS
1	BH	242	ASN
1	BI	27	HIS

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Mol	Chain	Res	Type
1	BI	47	ASN
1	BI	73	ASN
1	BI	152	GLN
1	BI	191	HIS
1	BI	202	HIS
1	BI	242	ASN
2	C0	73	GLN
2	C0	95	HIS
2	C0	134	HIS
2	C0	136	HIS
2	C0	189	HIS
2	C0	223	ASN
2	C1	73	GLN
2	C1	95	HIS
2	C1	134	HIS
2	C1	136	HIS
2	C1	189	HIS
2	C1	223	ASN
2	C2	73	GLN
2	C2	77	HIS
2	C2	95	HIS
2	C2	134	HIS
2	C2	160	HIS
2	C2	189	HIS
2	C2	223	ASN
2	C3	73	GLN
2	C3	77	HIS
2	C3	95	HIS
2	C3	134	HIS
2	C3	136	HIS
2	C3	160	HIS
2	C3	189	HIS
2	C3	223	ASN
2	C4	73	GLN
2	C4	95	HIS
2	C4	134	HIS
2	C4	136	HIS
2	C4	160	HIS
2	C4	189	HIS
2	C4	223	ASN
2	C5	73	GLN
2	C5	95	HIS

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Mol	Chain	Res	Type
2	C5	134	HIS
2	C5	136	HIS
2	C5	189	HIS
2	C5	223	ASN
2	C6	73	GLN
2	C6	77	HIS
2	C6	95	HIS
2	C6	134	HIS
2	C6	136	HIS
2	C6	189	HIS
2	C6	223	ASN
2	C7	73	GLN
2	C7	77	HIS
2	C7	95	HIS
2	C7	134	HIS
2	C7	136	HIS
2	C7	153	GLN
2	C7	189	HIS
2	C7	223	ASN
2	C8	73	GLN
2	C8	77	HIS
2	C8	95	HIS
2	C8	134	HIS
2	C8	136	HIS
2	C8	189	HIS
2	C8	223	ASN
2	C9	73	GLN
2	C9	95	HIS
2	C9	134	HIS
2	C9	136	HIS
2	C9	153	GLN
2	C9	189	HIS
2	C9	223	ASN
2	CA	73	GLN
2	CA	77	HIS
2	CA	95	HIS
2	CA	134	HIS
2	CA	136	HIS
2	CA	189	HIS
2	CA	223	ASN
2	CB	73	GLN
2	CB	77	HIS

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Mol	Chain	Res	Type
2	CB	95	HIS
2	CB	134	HIS
2	CB	136	HIS
2	CB	189	HIS
2	CB	223	ASN
2	CC	73	GLN
2	CC	77	HIS
2	CC	95	HIS
2	CC	134	HIS
2	CC	136	HIS
2	CC	153	GLN
2	CC	160	HIS
2	CC	189	HIS
2	CC	223	ASN
2	CD	73	GLN
2	CD	77	HIS
2	CD	95	HIS
2	CD	134	HIS
2	CD	136	HIS
2	CD	160	HIS
2	CD	189	HIS
2	CD	223	ASN
2	CE	73	GLN
2	CE	77	HIS
2	CE	95	HIS
2	CE	134	HIS
2	CE	136	HIS
2	CE	189	HIS
2	CE	223	ASN
2	CF	73	GLN
2	CF	77	HIS
2	CF	95	HIS
2	CF	134	HIS
2	CF	136	HIS
2	CF	160	HIS
2	CF	189	HIS
2	CF	223	ASN
2	CG	73	GLN
2	CG	77	HIS
2	CG	95	HIS
2	CG	134	HIS
2	CG	136	HIS

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Mol	Chain	Res	Type
2	CG	160	HIS
2	CG	189	HIS
2	CG	223	ASN
2	CH	73	GLN
2	CH	95	HIS
2	CH	134	HIS
2	CH	136	HIS
2	CH	153	GLN
2	CH	189	HIS
2	CH	223	ASN
2	CI	73	GLN
2	CI	77	HIS
2	CI	95	HIS
2	CI	134	HIS
2	CI	136	HIS
2	CI	189	HIS
2	CI	223	ASN
2	CJ	73	GLN
2	CJ	95	HIS
2	CJ	134	HIS
2	CJ	136	HIS
2	CJ	189	HIS
2	CJ	223	ASN
2	CK	73	GLN
2	CK	95	HIS
2	CK	134	HIS
2	CK	136	HIS
2	CK	153	GLN
2	CK	160	HIS
2	CK	189	HIS
2	CK	223	ASN
2	CL	73	GLN
2	CL	77	HIS
2	CL	95	HIS
2	CL	134	HIS
2	CL	136	HIS
2	CL	189	HIS
2	CL	223	ASN
2	CM	73	GLN
2	CM	77	HIS
2	CM	95	HIS
2	CM	134	HIS

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Mol	Chain	Res	Type
2	CM	136	HIS
2	CM	189	HIS
2	CM	223	ASN
2	CN	73	GLN
2	CN	95	HIS
2	CN	134	HIS
2	CN	136	HIS
2	CN	153	GLN
2	CN	189	HIS
2	CN	223	ASN
2	CO	73	GLN
2	CO	95	HIS
2	CO	134	HIS
2	CO	136	HIS
2	CO	153	GLN
2	CO	189	HIS
2	CO	223	ASN
2	CP	73	GLN
2	CP	95	HIS
2	CP	134	HIS
2	CP	136	HIS
2	CP	189	HIS
2	CP	223	ASN
2	CQ	73	GLN
2	CQ	77	HIS
2	CQ	95	HIS
2	CQ	134	HIS
2	CQ	136	HIS
2	CQ	189	HIS
2	CQ	223	ASN
2	CR	73	GLN
2	CR	95	HIS
2	CR	134	HIS
2	CR	160	HIS
2	CR	189	HIS
2	CR	223	ASN
2	CS	73	GLN
2	CS	95	HIS
2	CS	134	HIS
2	CS	136	HIS
2	CS	189	HIS
2	CS	223	ASN

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Mol	Chain	Res	Type
2	CT	73	GLN
2	CT	77	HIS
2	CT	95	HIS
2	CT	134	HIS
2	CT	136	HIS
2	CT	189	HIS
2	CT	223	ASN
2	CU	73	GLN
2	CU	77	HIS
2	CU	95	HIS
2	CU	134	HIS
2	CU	136	HIS
2	CU	153	GLN
2	CU	189	HIS
2	CU	223	ASN
2	CV	73	GLN
2	CV	77	HIS
2	CV	95	HIS
2	CV	134	HIS
2	CV	136	HIS
2	CV	189	HIS
2	CV	223	ASN
2	CW	73	GLN
2	CW	95	HIS
2	CW	134	HIS
2	CW	136	HIS
2	CW	160	HIS
2	CW	189	HIS
2	CW	223	ASN
2	CX	73	GLN
2	CX	77	HIS
2	CX	95	HIS
2	CX	134	HIS
2	CX	136	HIS
2	CX	153	GLN
2	CX	189	HIS
2	CX	223	ASN
2	CY	73	GLN
2	CY	95	HIS
2	CY	134	HIS
2	CY	136	HIS
2	CY	189	HIS

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Mol	Chain	Res	Type
2	CY	223	ASN
2	CZ	73	GLN
2	CZ	77	HIS
2	CZ	95	HIS
2	CZ	134	HIS
2	CZ	136	HIS
2	CZ	189	HIS
2	CZ	223	ASN
2	Ca	73	GLN
2	Ca	77	HIS
2	Ca	95	HIS
2	Ca	134	HIS
2	Ca	136	HIS
2	Ca	189	HIS
2	Ca	223	ASN
2	Cb	73	GLN
2	Cb	77	HIS
2	Cb	95	HIS
2	Cb	134	HIS
2	Cb	136	HIS
2	Cb	189	HIS
2	Cb	223	ASN
2	Cc	73	GLN
2	Cc	77	HIS
2	Cc	95	HIS
2	Cc	134	HIS
2	Cc	136	HIS
2	Cc	153	GLN
2	Cc	189	HIS
2	Cc	223	ASN
2	Cd	73	GLN
2	Cd	77	HIS
2	Cd	95	HIS
2	Cd	134	HIS
2	Cd	136	HIS
2	Cd	189	HIS
2	Cd	223	ASN
2	Ce	73	GLN
2	Ce	95	HIS
2	Ce	134	HIS
2	Ce	136	HIS
2	Ce	153	GLN

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Mol	Chain	Res	Type
2	Ce	189	HIS
2	Ce	223	ASN
2	Cf	73	GLN
2	Cf	77	HIS
2	Cf	95	HIS
2	Cf	134	HIS
2	Cf	136	HIS
2	Cf	189	HIS
2	Cf	223	ASN
2	Cg	73	GLN
2	Cg	77	HIS
2	Cg	95	HIS
2	Cg	134	HIS
2	Cg	136	HIS
2	Cg	160	HIS
2	Cg	189	HIS
2	Cg	223	ASN
2	Ch	73	GLN
2	Ch	95	HIS
2	Ch	134	HIS
2	Ch	136	HIS
2	Ch	153	GLN
2	Ch	189	HIS
2	Ch	223	ASN
2	Ci	73	GLN
2	Ci	77	HIS
2	Ci	95	HIS
2	Ci	134	HIS
2	Ci	136	HIS
2	Ci	153	GLN
2	Ci	189	HIS
2	Ci	223	ASN
2	Cj	73	GLN
2	Cj	77	HIS
2	Cj	95	HIS
2	Cj	134	HIS
2	Cj	136	HIS
2	Cj	189	HIS
2	Cj	223	ASN
2	Ck	73	GLN
2	Ck	77	HIS
2	Ck	95	HIS

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Mol	Chain	Res	Type
2	Ck	134	HIS
2	Ck	136	HIS
2	Ck	153	GLN
2	Ck	189	HIS
2	Ck	223	ASN
2	Cl	73	GLN
2	Cl	77	HIS
2	Cl	95	HIS
2	Cl	134	HIS
2	Cl	136	HIS
2	Cl	153	GLN
2	Cl	189	HIS
2	Cl	223	ASN
2	Cm	73	GLN
2	Cm	95	HIS
2	Cm	134	HIS
2	Cm	136	HIS
2	Cm	160	HIS
2	Cm	189	HIS
2	Cm	223	ASN
2	Cn	73	GLN
2	Cn	77	HIS
2	Cn	95	HIS
2	Cn	134	HIS
2	Cn	136	HIS
2	Cn	189	HIS
2	Cn	223	ASN
2	Co	73	GLN
2	Co	77	HIS
2	Co	95	HIS
2	Co	134	HIS
2	Co	136	HIS
2	Co	189	HIS
2	Co	223	ASN
2	Cp	73	GLN
2	Cp	77	HIS
2	Cp	95	HIS
2	Cp	134	HIS
2	Cp	136	HIS
2	Cp	189	HIS
2	Cp	223	ASN
2	Cq	73	GLN

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Mol	Chain	Res	Type
2	Cq	77	HIS
2	Cq	95	HIS
2	Cq	134	HIS
2	Cq	136	HIS
2	Cq	160	HIS
2	Cq	189	HIS
2	Cq	223	ASN
2	Cr	73	GLN
2	Cr	95	HIS
2	Cr	134	HIS
2	Cr	136	HIS
2	Cr	189	HIS
2	Cr	223	ASN
2	Cs	73	GLN
2	Cs	77	HIS
2	Cs	95	HIS
2	Cs	134	HIS
2	Cs	136	HIS
2	Cs	189	HIS
2	Cs	223	ASN
2	Ct	73	GLN
2	Ct	77	HIS
2	Ct	95	HIS
2	Ct	134	HIS
2	Ct	136	HIS
2	Ct	153	GLN
2	Ct	160	HIS
2	Ct	189	HIS
2	Ct	223	ASN
2	Cu	73	GLN
2	Cu	77	HIS
2	Cu	95	HIS
2	Cu	134	HIS
2	Cu	136	HIS
2	Cu	189	HIS
2	Cu	223	ASN
2	Cv	73	GLN
2	Cv	77	HIS
2	Cv	95	HIS
2	Cv	134	HIS
2	Cv	136	HIS
2	Cv	153	GLN

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Mol	Chain	Res	Type
2	Cv	189	HIS
2	Cv	223	ASN
2	Cw	73	GLN
2	Cw	77	HIS
2	Cw	95	HIS
2	Cw	134	HIS
2	Cw	136	HIS
2	Cw	189	HIS
2	Cw	223	ASN
2	Cx	73	GLN
2	Cx	95	HIS
2	Cx	134	HIS
2	Cx	136	HIS
2	Cx	189	HIS
2	Cx	223	ASN
3	D0	42	ASN
3	D0	49	GLN
3	D0	218	HIS
3	D0	226	GLN
3	D1	35	GLN
3	D1	42	ASN
3	D1	49	GLN
3	D1	128	HIS
3	D1	218	HIS
3	D1	226	GLN
3	D2	35	GLN
3	D2	42	ASN
3	D2	49	GLN
3	D2	128	HIS
3	D2	199	ASN
3	D2	218	HIS
3	D2	226	GLN
3	D3	35	GLN
3	D3	42	ASN
3	D3	49	GLN
3	D3	128	HIS
3	D3	218	HIS
3	D3	226	GLN
3	D4	42	ASN
3	D4	49	GLN
3	D4	66	ASN
3	D4	128	HIS

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Mol	Chain	Res	Type
3	D4	218	HIS
3	D4	226	GLN
3	D5	42	ASN
3	D5	49	GLN
3	D5	218	HIS
3	D5	226	GLN
3	D6	42	ASN
3	D6	49	GLN
3	D6	128	HIS
3	D6	218	HIS
3	D6	226	GLN
3	D7	35	GLN
3	D7	42	ASN
3	D7	49	GLN
3	D7	128	HIS
3	D7	218	HIS
3	D7	226	GLN
3	D8	42	ASN
3	D8	49	GLN
3	D8	128	HIS
3	D8	218	HIS
3	D8	226	GLN
3	D9	42	ASN
3	D9	49	GLN
3	D9	218	HIS
3	D9	226	GLN
3	DA	42	ASN
3	DA	49	GLN
3	DA	128	HIS
3	DA	218	HIS
3	DA	226	GLN
3	DB	35	GLN
3	DB	42	ASN
3	DB	49	GLN
3	DB	128	HIS
3	DB	218	HIS
3	DB	226	GLN
3	DC	35	GLN
3	DC	42	ASN
3	DC	49	GLN
3	DC	128	HIS
3	DC	218	HIS

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Mol	Chain	Res	Type
3	DC	226	GLN
3	DD	35	GLN
3	DD	42	ASN
3	DD	49	GLN
3	DD	128	HIS
3	DD	151	ASN
3	DD	218	HIS
3	DD	226	GLN
3	DE	35	GLN
3	DE	42	ASN
3	DE	49	GLN
3	DE	128	HIS
3	DE	218	HIS
3	DE	226	GLN
3	DF	35	GLN
3	DF	42	ASN
3	DF	49	GLN
3	DF	128	HIS
3	DF	218	HIS
3	DF	226	GLN
3	DG	42	ASN
3	DG	49	GLN
3	DG	128	HIS
3	DG	218	HIS
3	DG	226	GLN
3	DH	42	ASN
3	DH	49	GLN
3	DH	128	HIS
3	DH	218	HIS
3	DH	226	GLN
3	DI	42	ASN
3	DI	49	GLN
3	DI	128	HIS
3	DI	218	HIS
3	DI	226	GLN
3	DJ	42	ASN
3	DJ	49	GLN
3	DJ	128	HIS
3	DJ	218	HIS
3	DJ	226	GLN
3	DK	35	GLN
3	DK	42	ASN

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Mol	Chain	Res	Type
3	DK	49	GLN
3	DK	128	HIS
3	DK	218	HIS
3	DK	226	GLN
3	DL	42	ASN
3	DL	49	GLN
3	DL	128	HIS
3	DL	218	HIS
3	DL	226	GLN
3	DM	35	GLN
3	DM	42	ASN
3	DM	49	GLN
3	DM	128	HIS
3	DM	218	HIS
3	DM	226	GLN
3	DN	35	GLN
3	DN	42	ASN
3	DN	49	GLN
3	DN	128	HIS
3	DN	218	HIS
3	DN	226	GLN
3	DO	35	GLN
3	DO	42	ASN
3	DO	49	GLN
3	DO	128	HIS
3	DO	218	HIS
3	DO	226	GLN
3	DP	35	GLN
3	DP	42	ASN
3	DP	49	GLN
3	DP	128	HIS
3	DP	218	HIS
3	DP	226	GLN
3	DQ	42	ASN
3	DQ	49	GLN
3	DQ	128	HIS
3	DQ	218	HIS
3	DQ	226	GLN
3	DR	42	ASN
3	DR	49	GLN
3	DR	128	HIS
3	DR	218	HIS

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Mol	Chain	Res	Type
3	DR	226	GLN
3	DS	42	ASN
3	DS	49	GLN
3	DS	218	HIS
3	DS	226	GLN
3	DT	35	GLN
3	DT	42	ASN
3	DT	49	GLN
3	DT	218	HIS
3	DT	226	GLN
3	DU	42	ASN
3	DU	49	GLN
3	DU	128	HIS
3	DU	218	HIS
3	DU	226	GLN
3	DV	35	GLN
3	DV	42	ASN
3	DV	49	GLN
3	DV	128	HIS
3	DV	218	HIS
3	DV	226	GLN
3	DW	42	ASN
3	DW	49	GLN
3	DW	128	HIS
3	DW	218	HIS
3	DW	226	GLN
3	DX	42	ASN
3	DX	49	GLN
3	DX	128	HIS
3	DX	218	HIS
3	DX	226	GLN
3	DY	35	GLN
3	DY	42	ASN
3	DY	49	GLN
3	DY	128	HIS
3	DY	218	HIS
3	DY	226	GLN
3	DZ	42	ASN
3	DZ	49	GLN
3	DZ	128	HIS
3	DZ	218	HIS
3	DZ	226	GLN

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Mol	Chain	Res	Type
3	Da	42	ASN
3	Da	49	GLN
3	Da	128	HIS
3	Da	218	HIS
3	Da	226	GLN
3	Db	42	ASN
3	Db	49	GLN
3	Db	128	HIS
3	Db	218	HIS
3	Db	226	GLN
3	Dc	35	GLN
3	Dc	42	ASN
3	Dc	49	GLN
3	Dc	128	HIS
3	Dc	218	HIS
3	Dc	226	GLN
3	Dd	42	ASN
3	Dd	49	GLN
3	Dd	128	HIS
3	Dd	218	HIS
3	Dd	226	GLN
3	De	35	GLN
3	De	42	ASN
3	De	49	GLN
3	De	66	ASN
3	De	128	HIS
3	De	218	HIS
3	De	226	GLN
3	Df	42	ASN
3	Df	49	GLN
3	Df	128	HIS
3	Df	218	HIS
3	Df	226	GLN
3	Dg	35	GLN
3	Dg	42	ASN
3	Dg	49	GLN
3	Dg	128	HIS
3	Dg	218	HIS
3	Dg	226	GLN
3	Dh	42	ASN
3	Dh	49	GLN
3	Dh	218	HIS

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Mol	Chain	Res	Type
3	Dh	226	GLN
3	Di	35	GLN
3	Di	42	ASN
3	Di	49	GLN
3	Di	218	HIS
3	Di	226	GLN
3	Dj	35	GLN
3	Dj	42	ASN
3	Dj	49	GLN
3	Dj	128	HIS
3	Dj	218	HIS
3	Dj	226	GLN
3	Dk	35	GLN
3	Dk	42	ASN
3	Dk	49	GLN
3	Dk	128	HIS
3	Dk	218	HIS
3	Dk	226	GLN
3	Dl	35	GLN
3	Dl	42	ASN
3	Dl	49	GLN
3	Dl	128	HIS
3	Dl	218	HIS
3	Dl	226	GLN
3	Dm	42	ASN
3	Dm	49	GLN
3	Dm	128	HIS
3	Dm	218	HIS
3	Dm	226	GLN
3	Dn	42	ASN
3	Dn	49	GLN
3	Dn	128	HIS
3	Dn	218	HIS
3	Dn	226	GLN
3	Do	42	ASN
3	Do	49	GLN
3	Do	128	HIS
3	Do	218	HIS
3	Do	226	GLN
3	Dp	35	GLN
3	Dp	42	ASN
3	Dp	49	GLN

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Mol	Chain	Res	Type
3	Dp	128	HIS
3	Dp	218	HIS
3	Dp	226	GLN
3	Dq	35	GLN
3	Dq	42	ASN
3	Dq	49	GLN
3	Dq	128	HIS
3	Dq	218	HIS
3	Dq	226	GLN
3	Dr	35	GLN
3	Dr	42	ASN
3	Dr	49	GLN
3	Dr	128	HIS
3	Dr	218	HIS
3	Dr	226	GLN
3	Ds	35	GLN
3	Ds	42	ASN
3	Ds	49	GLN
3	Ds	128	HIS
3	Ds	218	HIS
3	Ds	226	GLN
3	EA	35	GLN
3	EA	42	ASN
3	EA	49	GLN
3	EA	128	HIS
3	EA	218	HIS
3	EA	226	GLN
3	EB	35	GLN
3	EB	42	ASN
3	EB	49	GLN
3	EB	128	HIS
3	EB	218	HIS
3	EB	226	GLN
3	EC	42	ASN
3	EC	49	GLN
3	EC	128	HIS
3	EC	218	HIS
3	EC	226	GLN
3	ED	35	GLN
3	ED	42	ASN
3	ED	49	GLN
3	ED	128	HIS

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Mol	Chain	Res	Type
3	ED	218	HIS
3	ED	226	GLN
3	EE	35	GLN
3	EE	42	ASN
3	EE	49	GLN
3	EE	128	HIS
3	EE	218	HIS
3	EE	226	GLN
4	F0	17	ASN
4	F0	23	GLN
4	F0	24	ASN
4	F0	31	GLN
4	F1	17	ASN
4	F1	23	GLN
4	F1	24	ASN
4	F1	31	GLN
4	F2	17	ASN
4	F2	23	GLN
4	F2	24	ASN
4	F2	31	GLN
4	F3	17	ASN
4	F3	23	GLN
4	F3	24	ASN
4	F3	31	GLN
4	F4	17	ASN
4	F4	23	GLN
4	F4	24	ASN
4	F4	31	GLN
4	F5	17	ASN
4	F5	23	GLN
4	F5	24	ASN
4	F5	31	GLN
4	F6	17	ASN
4	F6	23	GLN
4	F6	24	ASN
4	F6	31	GLN
4	F7	17	ASN
4	F7	23	GLN
4	F7	24	ASN
4	F7	31	GLN
4	F8	17	ASN
4	F8	23	GLN

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Mol	Chain	Res	Type
4	F8	24	ASN
4	F8	31	GLN
4	F9	17	ASN
4	F9	23	GLN
4	F9	24	ASN
4	F9	31	GLN
4	FA	17	ASN
4	FA	23	GLN
4	FA	24	ASN
4	FA	31	GLN
4	FB	17	ASN
4	FB	23	GLN
4	FB	24	ASN
4	FB	31	GLN
4	FC	17	ASN
4	FC	23	GLN
4	FC	24	ASN
4	FC	31	GLN
4	FD	17	ASN
4	FD	23	GLN
4	FD	24	ASN
4	FD	31	GLN
4	FE	17	ASN
4	FE	23	GLN
4	FE	24	ASN
4	FE	31	GLN
4	FF	17	ASN
4	FF	23	GLN
4	FF	24	ASN
4	FF	31	GLN
4	FG	17	ASN
4	FG	23	GLN
4	FG	24	ASN
4	FG	31	GLN
4	FH	17	ASN
4	FH	23	GLN
4	FH	24	ASN
4	FH	31	GLN
4	FI	17	ASN
4	FI	23	GLN
4	FI	24	ASN
4	FI	31	GLN

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Mol	Chain	Res	Type
4	FJ	17	ASN
4	FJ	23	GLN
4	FJ	24	ASN
4	FJ	31	GLN
4	FK	17	ASN
4	FK	23	GLN
4	FK	24	ASN
4	FK	31	GLN
4	FL	17	ASN
4	FL	23	GLN
4	FL	24	ASN
4	FL	31	GLN
4	FM	17	ASN
4	FM	23	GLN
4	FM	24	ASN
4	FM	31	GLN
4	FN	17	ASN
4	FN	23	GLN
4	FN	24	ASN
4	FN	31	GLN
4	FO	17	ASN
4	FO	23	GLN
4	FO	24	ASN
4	FO	31	GLN
4	FP	17	ASN
4	FP	23	GLN
4	FP	24	ASN
4	FP	31	GLN
4	FQ	17	ASN
4	FQ	23	GLN
4	FQ	24	ASN
4	FQ	31	GLN
4	FR	17	ASN
4	FR	23	GLN
4	FR	24	ASN
4	FR	31	GLN
4	FS	17	ASN
4	FS	23	GLN
4	FS	24	ASN
4	FS	31	GLN
4	FT	17	ASN
4	FT	23	GLN

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Mol	Chain	Res	Type
4	FT	24	ASN
4	FT	31	GLN
4	FU	17	ASN
4	FU	23	GLN
4	FU	24	ASN
4	FU	31	GLN
4	FV	17	ASN
4	FV	23	GLN
4	FV	24	ASN
4	FV	31	GLN
4	FW	17	ASN
4	FW	23	GLN
4	FW	24	ASN
4	FW	31	GLN
4	FX	17	ASN
4	FX	23	GLN
4	FX	24	ASN
4	FX	31	GLN
4	FY	17	ASN
4	FY	23	GLN
4	FY	24	ASN
4	FY	31	GLN
4	FZ	17	ASN
4	FZ	23	GLN
4	FZ	24	ASN
4	FZ	31	GLN
4	Fa	17	ASN
4	Fa	23	GLN
4	Fa	24	ASN
4	Fa	31	GLN
4	Fb	17	ASN
4	Fb	23	GLN
4	Fb	24	ASN
4	Fb	31	GLN
4	Fc	17	ASN
4	Fc	23	GLN
4	Fc	24	ASN
4	Fc	31	GLN
4	Fd	17	ASN
4	Fd	23	GLN
4	Fd	24	ASN
4	Fd	31	GLN

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Mol	Chain	Res	Type
4	Fe	17	ASN
4	Fe	23	GLN
4	Fe	24	ASN
4	Fe	31	GLN
4	Ff	17	ASN
4	Ff	23	GLN
4	Ff	24	ASN
4	Ff	31	GLN
4	Fg	17	ASN
4	Fg	23	GLN
4	Fg	24	ASN
4	Fg	31	GLN
4	Fh	17	ASN
4	Fh	23	GLN
4	Fh	24	ASN
4	Fh	31	GLN
4	Fi	17	ASN
4	Fi	23	GLN
4	Fi	24	ASN
4	Fi	31	GLN
4	Fj	17	ASN
4	Fj	23	GLN
4	Fj	24	ASN
4	Fj	31	GLN
4	Fk	17	ASN
4	Fk	23	GLN
4	Fk	24	ASN
4	Fk	31	GLN
4	Fl	17	ASN
4	Fl	23	GLN
4	Fl	24	ASN
4	Fl	31	GLN
4	Fm	17	ASN
4	Fm	23	GLN
4	Fm	24	ASN
4	Fm	31	GLN
4	Fn	17	ASN
4	Fn	23	GLN
4	Fn	24	ASN
4	Fn	31	GLN
4	Fo	17	ASN
4	Fo	23	GLN

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Mol	Chain	Res	Type
4	Fo	24	ASN
4	Fo	31	GLN
4	Fp	17	ASN
4	Fp	23	GLN
4	Fp	24	ASN
4	Fp	31	GLN
4	Fq	17	ASN
4	Fq	23	GLN
4	Fq	24	ASN
4	Fq	31	GLN
4	Fr	17	ASN
4	Fr	23	GLN
4	Fr	24	ASN
4	Fr	31	GLN
4	Fs	17	ASN
4	Fs	23	GLN
4	Fs	24	ASN
4	Fs	31	GLN
4	Ft	17	ASN
4	Ft	23	GLN
4	Ft	24	ASN
4	Ft	31	GLN
4	Fu	17	ASN
4	Fu	23	GLN
4	Fu	24	ASN
4	Fu	31	GLN
4	Fv	17	ASN
4	Fv	23	GLN
4	Fv	24	ASN
4	Fv	31	GLN
4	Fw	17	ASN
4	Fw	23	GLN
4	Fw	24	ASN
4	Fw	31	GLN
4	Fx	17	ASN
4	Fx	23	GLN
4	Fx	24	ASN
4	Fx	31	GLN

5.3.3 RNA ⓘ

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.

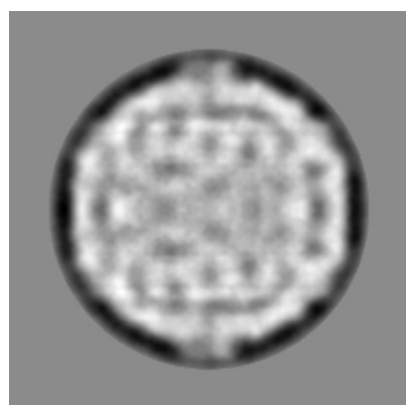
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2389. These allow visual inspection of the internal detail of the map and identification of artifacts.

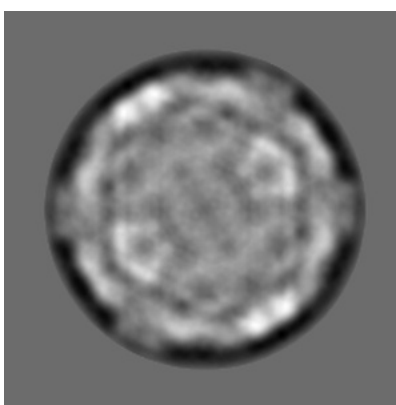
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

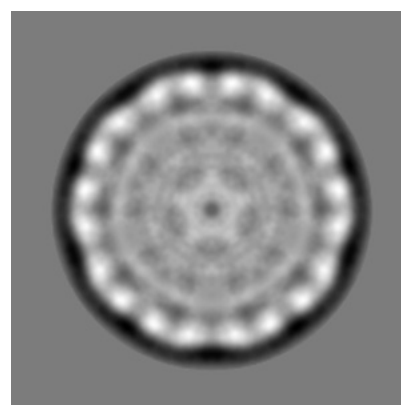
6.1.1 Primary map



X



Y

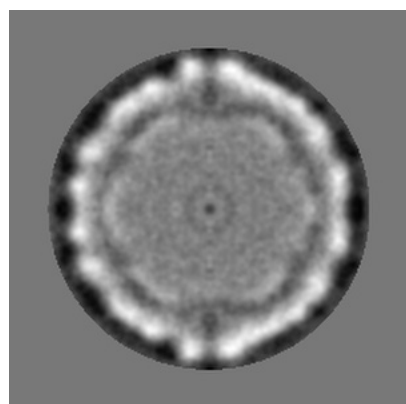


Z

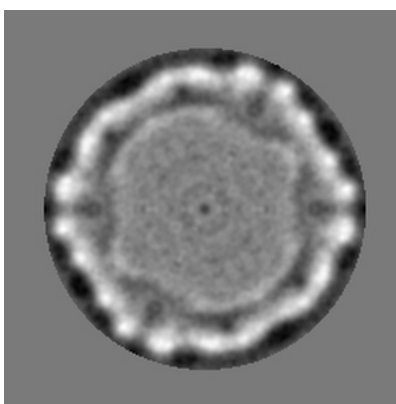
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

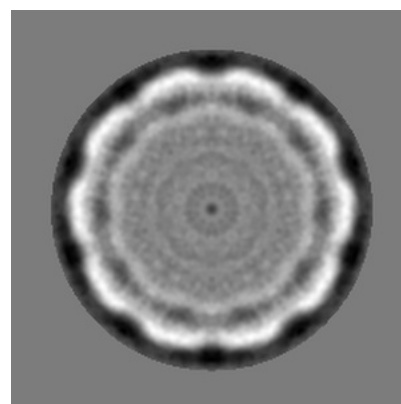
6.2.1 Primary map



X Index: 120



Y Index: 120

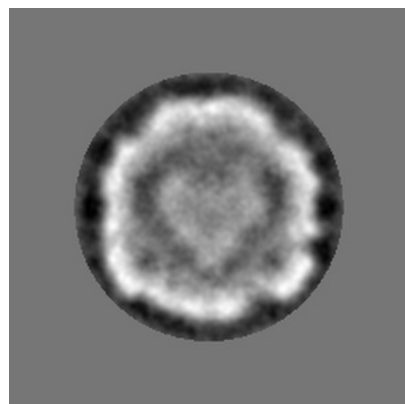


Z Index: 120

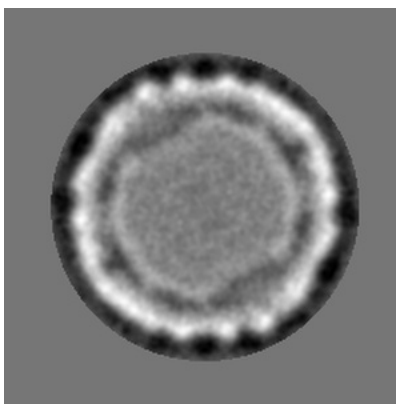
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

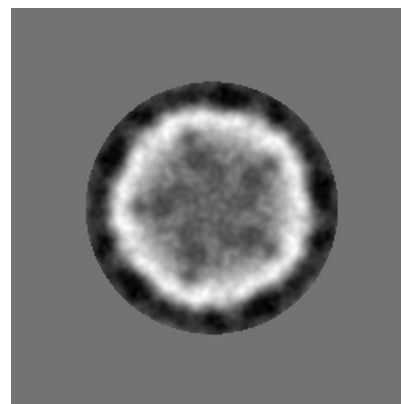
6.3.1 Primary map



X Index: 173



Y Index: 92

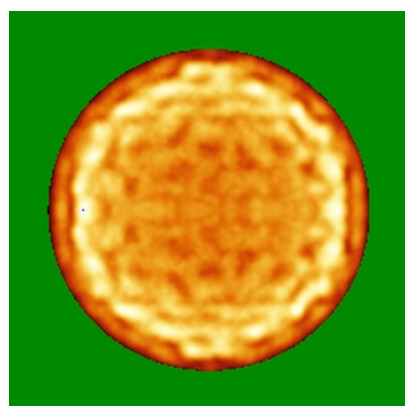


Z Index: 180

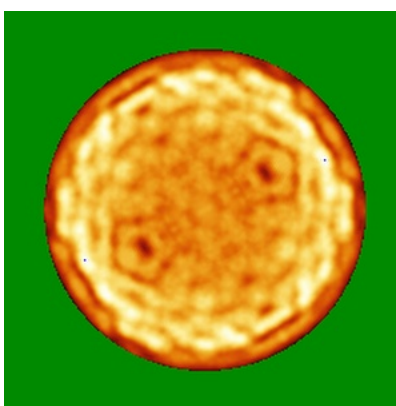
The images above show the largest variance slices of the map in three orthogonal directions.

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

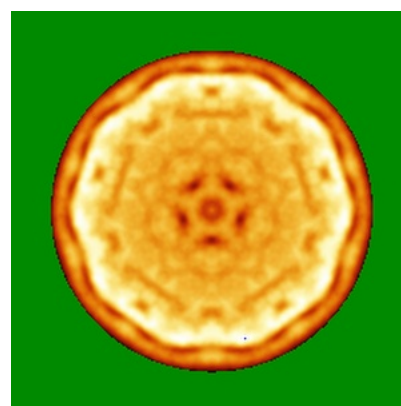
6.4.1 Primary map



X



Y

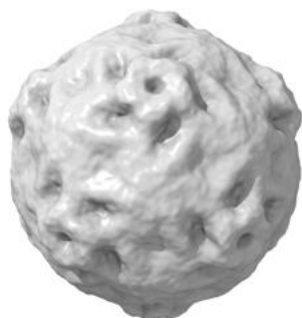


Z

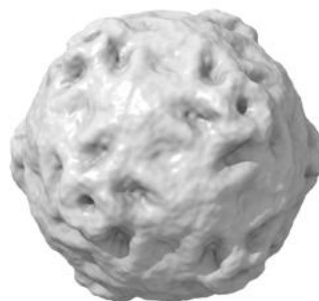
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

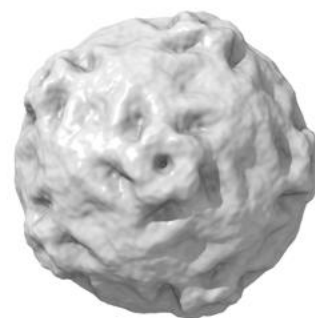
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

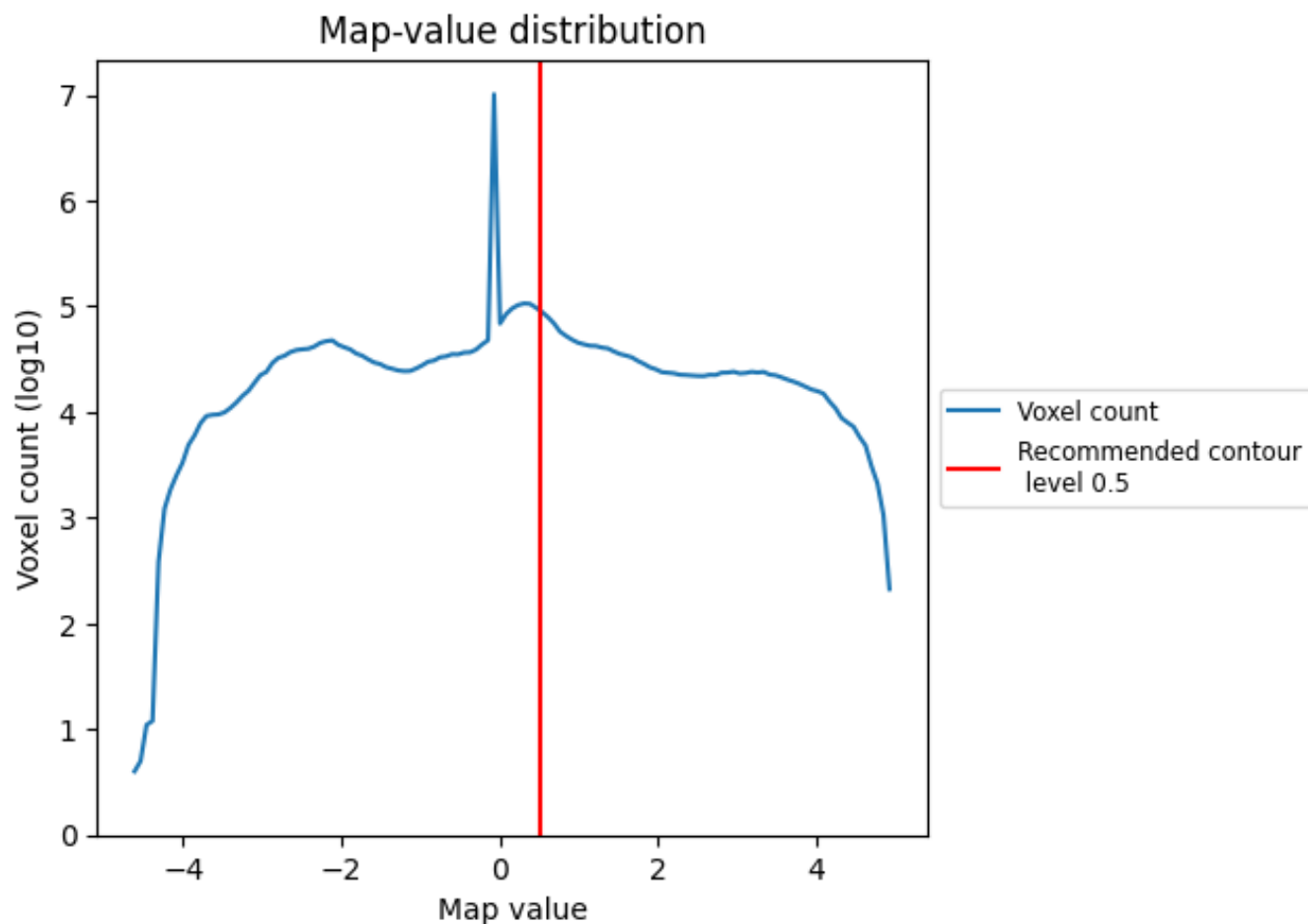
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

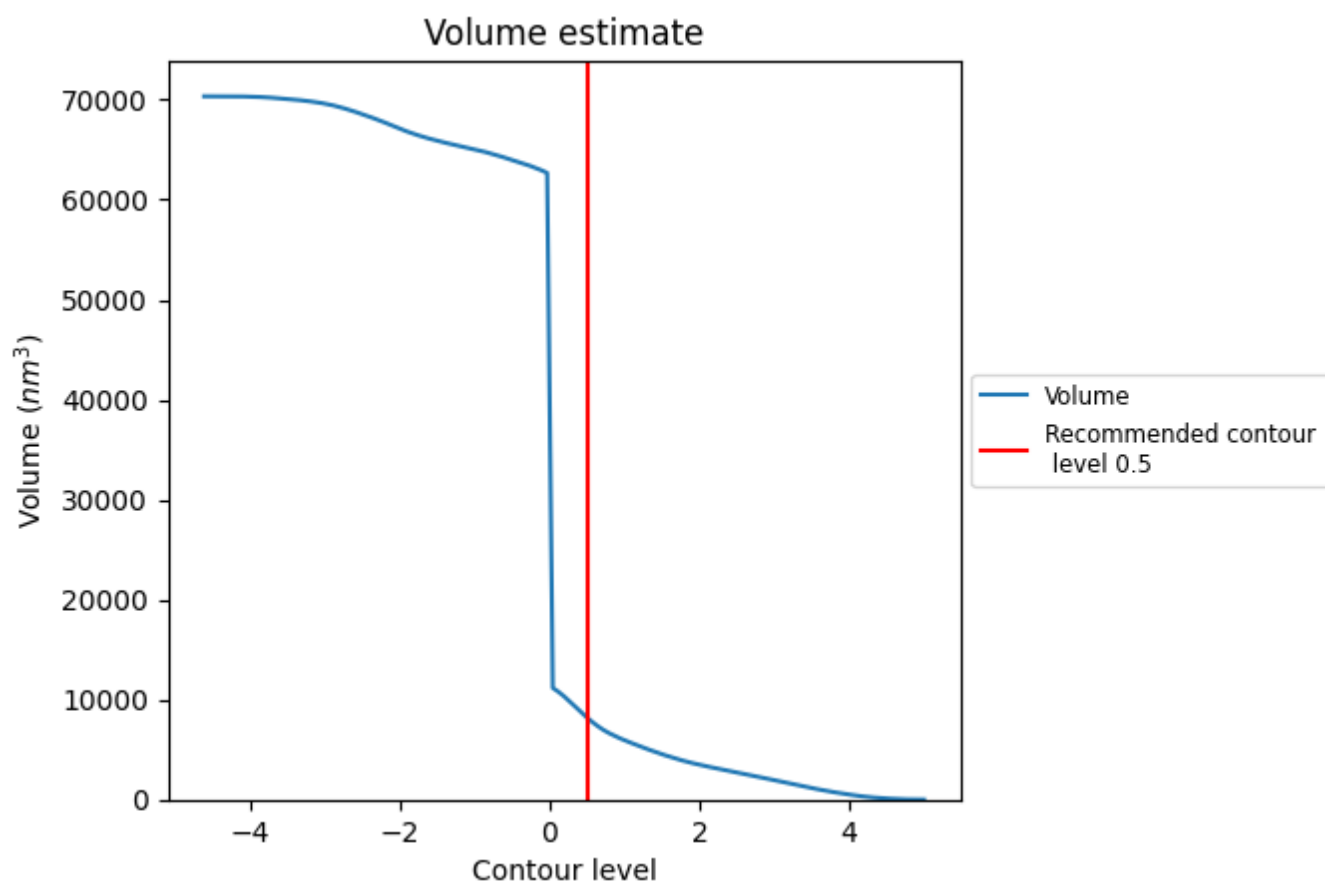
This section contains the results of statistical analysis of the map.

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.

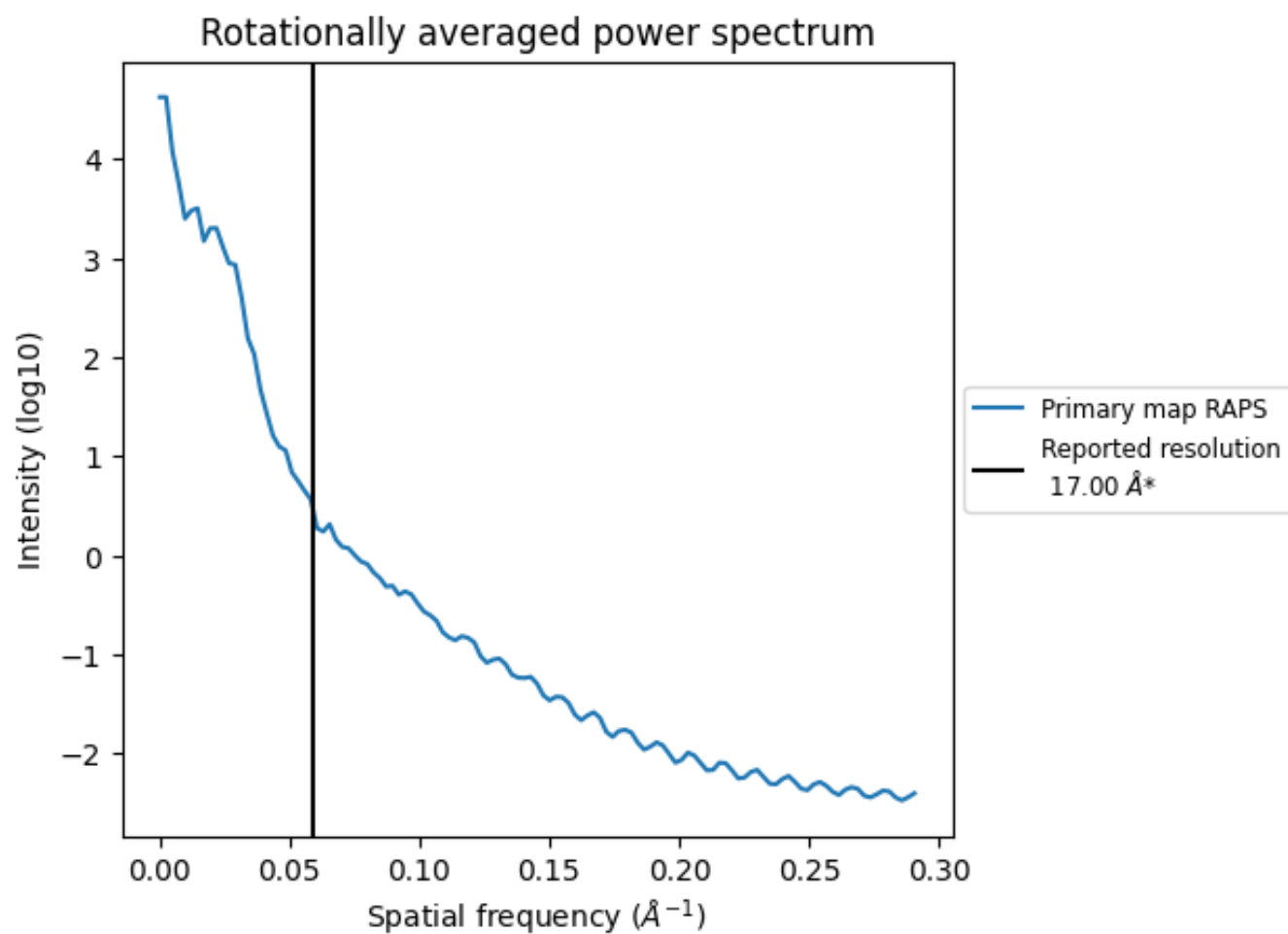
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 8201 nm³; this corresponds to an approximate mass of 7408 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](#)

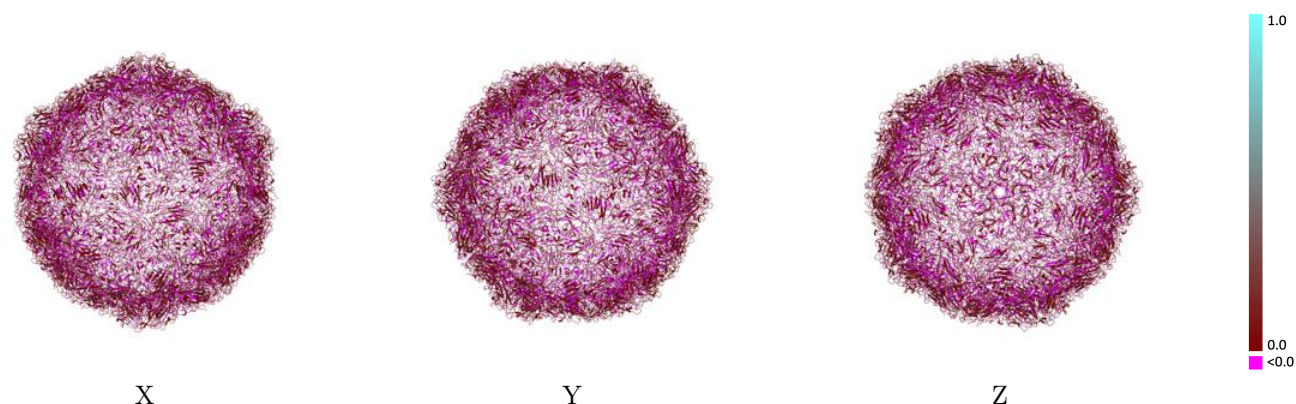
This section contains information regarding the fit between EMDB map EMD-2389 and PDB model 4CTF. Per-residue inclusion information can be found in section 3 on page 27.

9.1 Map-model overlay [i](#)



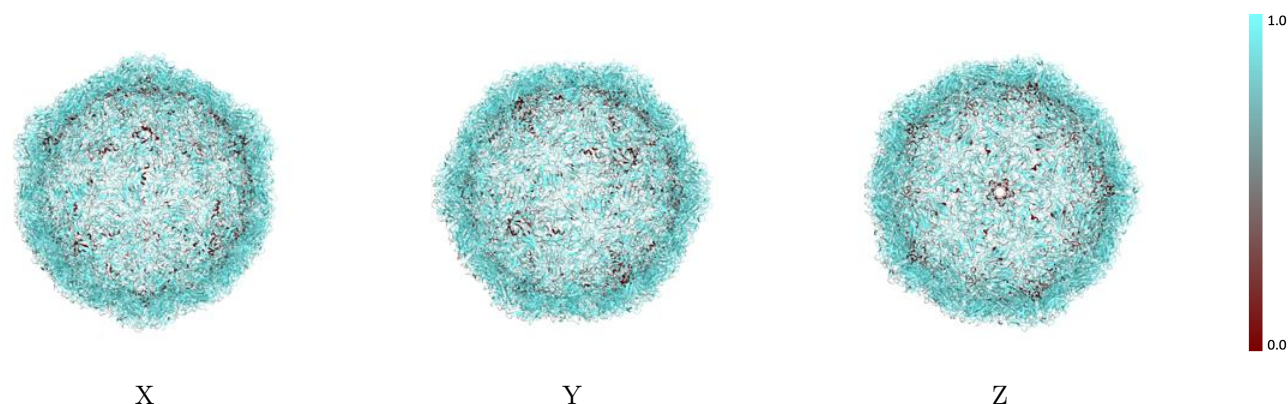
The images above show the 3D surface view of the map at the recommended contour level 0.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



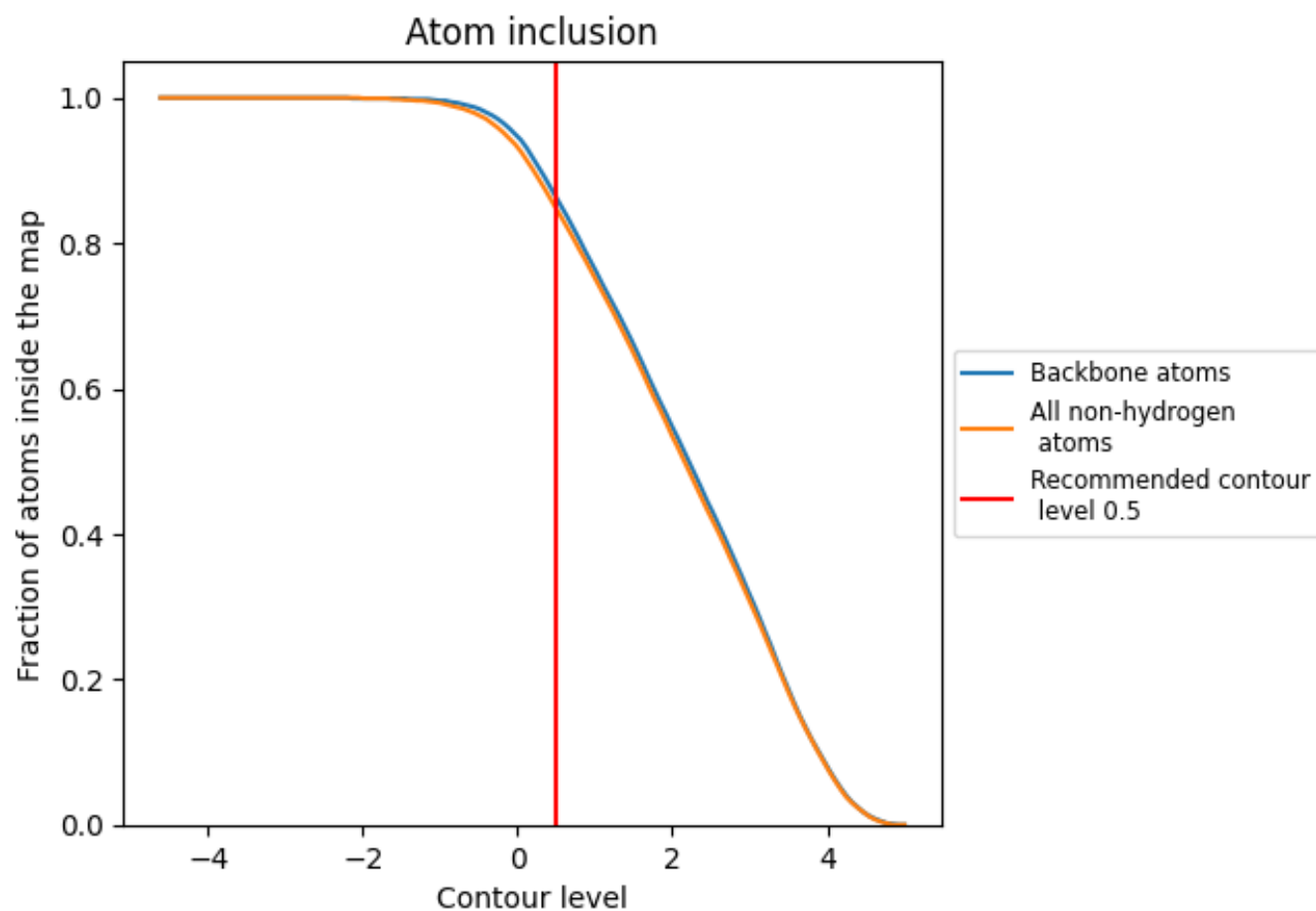
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.5).

9.4 Atom inclusion [i](#)



At the recommended contour level, 86% of all backbone atoms, 85% 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 (0.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8470	 0.0420
A0	 0.8690	 0.0380
A1	 0.8840	 0.0400
A2	 0.8810	 0.0490
A3	 0.8750	 0.0440
A4	 0.8790	 0.0440
A5	 0.8700	 0.0450
A6	 0.8680	 0.0470
A7	 0.8700	 0.0480
A8	 0.8730	 0.0450
A9	 0.8610	 0.0430
AA	 0.8640	 0.0470
AB	 0.8660	 0.0490
AC	 0.8710	 0.0460
AD	 0.8720	 0.0450
AE	 0.8680	 0.0430
AF	 0.8670	 0.0490
AG	 0.8680	 0.0490
AH	 0.8730	 0.0480
AI	 0.8760	 0.0450
AJ	 0.8700	 0.0440
AK	 0.8750	 0.0370
AL	 0.8840	 0.0420
AM	 0.8760	 0.0460
AN	 0.8600	 0.0450
AO	 0.8570	 0.0400
AP	 0.8670	 0.0390
AQ	 0.8780	 0.0410
AR	 0.8770	 0.0430
AS	 0.8610	 0.0390
AT	 0.8790	 0.0430
AU	 0.8780	 0.0440
AV	 0.8710	 0.0480
AW	 0.8660	 0.0500
AX	 0.8720	 0.0490



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Chain	Atom inclusion	Q-score
AY	 0.8720	 0.0490
AZ	 0.8590	 0.0440
Aa	 0.8820	 0.0340
Ab	 0.8810	 0.0440
Ac	 0.8800	 0.0450
Ad	 0.8720	 0.0500
Ae	 0.8620	 0.0490
Af	 0.8740	 0.0450
Ag	 0.8880	 0.0370
Ah	 0.8660	 0.0440
Ai	 0.8810	 0.0370
Aj	 0.8860	 0.0400
Ak	 0.8770	 0.0430
Al	 0.8690	 0.0470
Am	 0.8630	 0.0430
An	 0.8670	 0.0390
Ao	 0.8640	 0.0420
BA	 0.8770	 0.0400
BB	 0.8880	 0.0400
BC	 0.8800	 0.0470
BD	 0.8650	 0.0460
BE	 0.8850	 0.0430
BF	 0.8770	 0.0510
BG	 0.8620	 0.0450
BH	 0.8720	 0.0420
BI	 0.8810	 0.0370
C0	 0.8870	 0.0510
C1	 0.8820	 0.0460
C2	 0.8770	 0.0390
C3	 0.8780	 0.0420
C4	 0.8620	 0.0260
C5	 0.8380	 0.0260
C6	 0.8340	 0.0250
C7	 0.8580	 0.0300
C8	 0.8750	 0.0310
C9	 0.8860	 0.0320
CA	 0.8360	 0.0320
CB	 0.8480	 0.0320
CC	 0.8420	 0.0280
CD	 0.8310	 0.0290
CE	 0.8250	 0.0340
CF	 0.8360	 0.0310

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Chain	Atom inclusion	Q-score
CG	 0.8600	 0.0340
CH	 0.8570	 0.0330
CI	 0.8380	 0.0330
CJ	 0.8280	 0.0320
CK	 0.8820	 0.0350
CL	 0.8820	 0.0330
CM	 0.8860	 0.0420
CN	 0.8870	 0.0470
CO	 0.8840	 0.0440
CP	 0.8770	 0.0450
CQ	 0.8820	 0.0400
CR	 0.8840	 0.0400
CS	 0.8820	 0.0410
CT	 0.8820	 0.0480
CU	 0.8590	 0.0400
CV	 0.8380	 0.0390
CW	 0.8420	 0.0340
CX	 0.8730	 0.0380
CY	 0.8830	 0.0420
CZ	 0.8850	 0.0420
Ca	 0.8900	 0.0390
Cb	 0.8840	 0.0360
Cc	 0.8770	 0.0290
Cd	 0.8690	 0.0320
Ce	 0.8530	 0.0330
Cf	 0.8730	 0.0370
Cg	 0.8900	 0.0460
Ch	 0.8860	 0.0420
Ci	 0.8680	 0.0320
Cj	 0.8900	 0.0330
Ck	 0.8780	 0.0280
Cl	 0.8540	 0.0280
Cm	 0.8550	 0.0290
Cn	 0.8750	 0.0290
Co	 0.8890	 0.0440
Cp	 0.8830	 0.0400
Cq	 0.8640	 0.0370
Cr	 0.8730	 0.0370
Cs	 0.8850	 0.0360
Ct	 0.8610	 0.0320
Cu	 0.8780	 0.0300
Cv	 0.8870	 0.0350

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Chain	Atom inclusion	Q-score
Cw	 0.8920	 0.0370
Cx	 0.8760	 0.0320
D0	 0.8960	 0.0580
D1	 0.8850	 0.0540
D2	 0.8750	 0.0520
D3	 0.8810	 0.0550
D4	 0.8660	 0.0450
D5	 0.8470	 0.0450
D6	 0.8360	 0.0380
D7	 0.8460	 0.0370
D8	 0.8670	 0.0440
D9	 0.8840	 0.0410
DA	 0.8350	 0.0400
DB	 0.8480	 0.0430
DC	 0.8500	 0.0450
DD	 0.8380	 0.0450
DE	 0.8300	 0.0420
DF	 0.8350	 0.0400
DG	 0.8520	 0.0470
DH	 0.8580	 0.0490
DI	 0.8520	 0.0500
DJ	 0.8350	 0.0460
DK	 0.8800	 0.0450
DL	 0.8810	 0.0420
DM	 0.8870	 0.0480
DN	 0.8900	 0.0480
DO	 0.8890	 0.0530
DP	 0.8840	 0.0460
DQ	 0.8830	 0.0490
DR	 0.8840	 0.0450
DS	 0.8880	 0.0460
DT	 0.8910	 0.0480
DU	 0.8630	 0.0580
DV	 0.8500	 0.0540
DW	 0.8390	 0.0460
DX	 0.8610	 0.0510
DY	 0.8770	 0.0570
DZ	 0.8860	 0.0540
Da	 0.8910	 0.0460
Db	 0.8880	 0.0470
Dc	 0.8770	 0.0430
Dd	 0.8740	 0.0440

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Chain	Atom inclusion	Q-score
De	 0.8610	 0.0500
Df	 0.8610	 0.0460
Dg	 0.8810	 0.0570
Dh	 0.8830	 0.0580
Di	 0.8740	 0.0510
Dj	 0.8870	 0.0460
Dk	 0.8810	 0.0450
Dl	 0.8660	 0.0470
Dm	 0.8610	 0.0440
Dn	 0.8670	 0.0400
Do	 0.8880	 0.0530
Dp	 0.8790	 0.0540
Dq	 0.8690	 0.0570
Dr	 0.8720	 0.0510
Ds	 0.8750	 0.0490
EA	 0.8690	 0.0480
EB	 0.8700	 0.0450
EC	 0.8810	 0.0460
ED	 0.8870	 0.0500
EE	 0.8770	 0.0470
F0	 0.2440	 0.0530
F1	 0.1830	 0.0540
F2	 0.1280	 0.0430
F3	 0.1460	 0.0410
F4	 0.0790	 0.0260
F5	 0.0730	 0.0130
F6	 0.0610	 0.0040
F7	 0.0980	 -0.0020
F8	 0.0910	 -0.0120
F9	 0.1710	 0.0090
FA	 0.0610	 0.0150
FB	 0.0670	 0.0140
FC	 0.0670	 0.0140
FD	 0.0550	 0.0250
FE	 0.0490	 0.0240
FF	 0.0670	 0.0040
FG	 0.0910	 0.0040
FH	 0.0730	 0.0240
FI	 0.0610	 0.0310
FJ	 0.0550	 0.0240
FK	 0.1770	 0.0400
FL	 0.1650	 0.0370

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Chain	Atom inclusion	Q-score
FM	0.1950	0.0380
FN	0.2440	0.0400
FO	0.2500	0.0560
FP	0.2130	0.0620
FQ	0.1710	0.0470
FR	0.2070	0.0390
FS	0.2500	0.0350
FT	0.2620	0.0450
FU	0.0850	0.0530
FV	0.0730	0.0130
FW	0.0790	0.0250
FX	0.1100	0.0150
FY	0.1040	0.0280
FZ	0.1890	0.0370
Fa	0.2200	0.0290
Fb	0.1890	0.0470
Fc	0.1280	0.0290
Fd	0.1340	0.0130
Fe	0.0980	0.0170
Ff	0.1220	0.0210
Fg	0.1520	0.0250
Fh	0.1400	0.0480
Fi	0.0910	0.0280
Fj	0.1340	0.0210
Fk	0.1160	0.0320
Fl	0.0980	0.0030
Fm	0.0980	0.0050
Fn	0.1590	0.0150
Fo	0.1950	0.0430
Fp	0.1340	0.0620
Fq	0.1100	0.0310
Fr	0.1160	0.0200
Fs	0.1650	0.0170
Ft	0.1100	0.0120
Fu	0.1100	0.0030
Fv	0.1650	0.0100
Fw	0.1520	0.0400
Fx	0.1160	0.0370