



wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 05:52 PM BST

PDB ID : 4CTF
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 : 2014-04-02
Resolution : 17.00 Å(reported)
Based on PDB ID : 2WFF

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>

MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : trunk27241

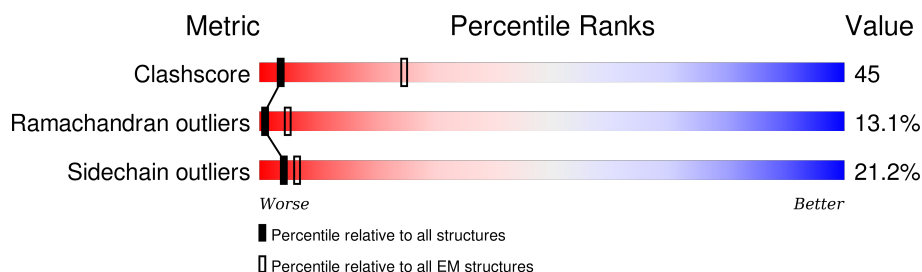
1 Overall quality at a glance

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.



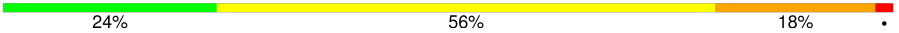
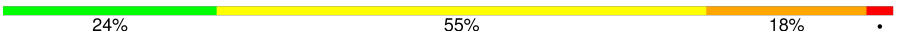
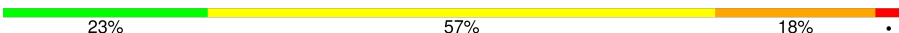
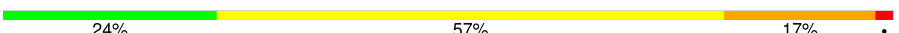
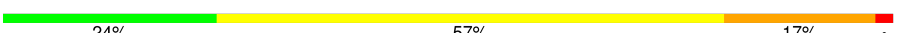
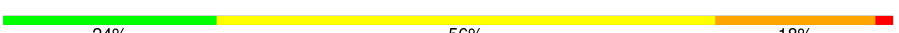





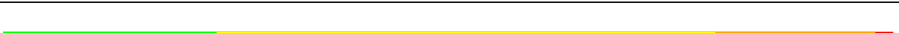



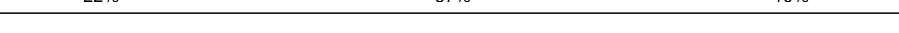
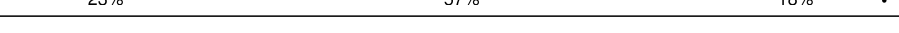
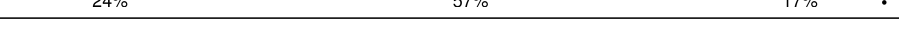
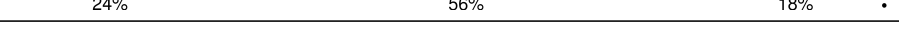
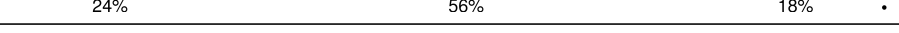
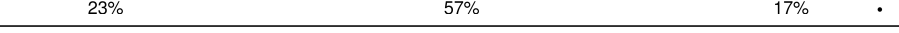
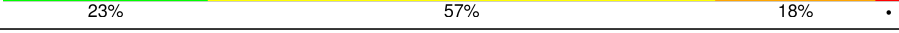
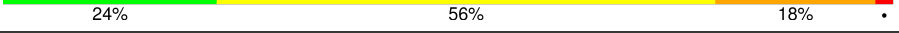
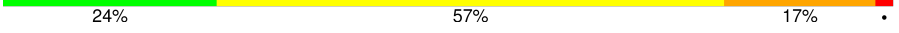
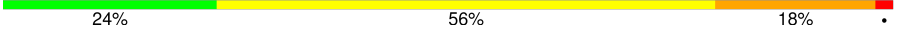
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A0	246	23% 57% 18% .
1	A1	246	24% 55% 19% .
1	A2	246	23% 57% 18% .
1	A3	246	25% 55% 18% .
1	A4	246	24% 56% 18% .
1	A5	246	23% 56% 18% .
1	A6	246	22% 58% 17% .
1	A7	246	24% 56% 18% .
1	A8	246	24% 56% 18% .

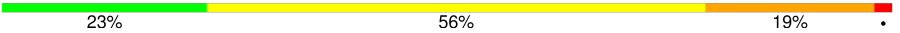
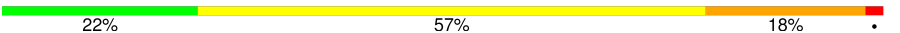
















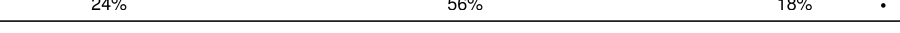
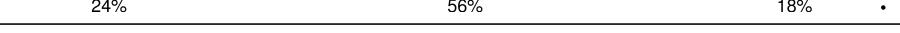
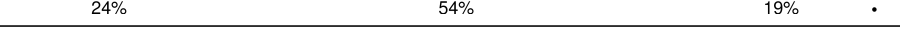
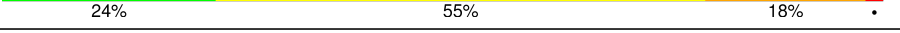
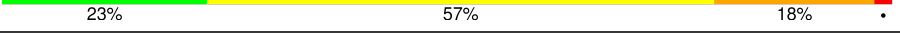
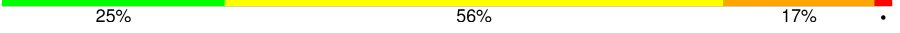
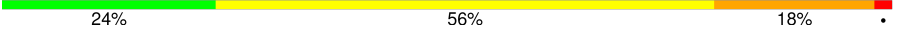
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Mol	Chain	Length	Quality of chain
1	A9	246	 24% 56% 18% .
1	AA	246	 24% 55% 18% .
1	AB	246	 23% 57% 18% .
1	AC	246	 24% 57% 17% .
1	AD	246	 24% 57% 17% .
1	AE	246	 24% 56% 18% .
1	AF	246	 23% 56% 18% .
1	AG	246	 23% 57% 18% .
1	AH	246	 24% 55% 18% .
1	AI	246	 23% 57% 17% .
1	AJ	246	 23% 57% 18% .
1	AK	246	 24% 56% 18% .
1	AL	246	 23% 56% 18% .
1	AM	246	 23% 57% 17% .
1	AN	246	 22% 57% 19% .
1	AO	246	 23% 57% 18% .
1	AP	246	 24% 57% 17% .
1	AQ	246	 24% 56% 18% .
1	AR	246	 24% 56% 18% .
1	AS	246	 23% 57% 17% .
1	AT	246	 23% 57% 18% .
1	AU	246	 24% 56% 18% .
1	AV	246	 24% 57% 17% .
1	AW	246	 24% 56% 18% .
1	AX	246	 24% 56% 18% .


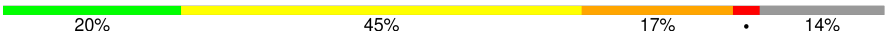
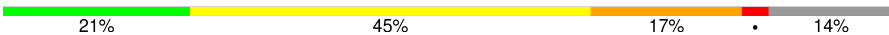
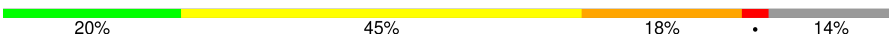
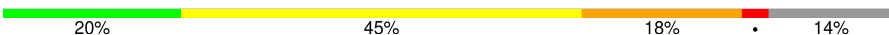
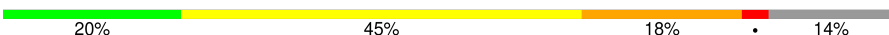
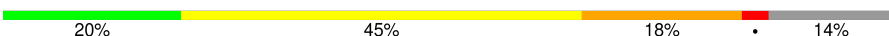







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Mol	Chain	Length	Quality of chain
1	AY	246	 23% 56% 19% .
1	AZ	246	 22% 57% 18% .
1	Aa	246	 72% 25% ..
1	Ab	246	 72% 24% ..
1	Ac	246	 72% 24% ..
1	Ad	246	 72% 25% ..
1	Ae	246	 72% 24% ..
1	Af	246	 72% 25% ..
1	Ag	246	 72% 25% ..
1	Ah	246	 72% 25% ..
1	Ai	246	 72% 24% ..
1	Aj	246	 72% 24% ..
1	Ak	246	 72% 24% ..
1	Al	246	 72% 24% ..
1	Am	246	 72% 24% ..
1	An	246	 72% 24% ..
1	Ao	246	 72% 24% ..
1	BA	246	 24% 56% 18% .
1	BB	246	 24% 56% 18% .
1	BC	246	 24% 54% 19% .
1	BD	246	 24% 55% 18% .
1	BE	246	 23% 57% 18% .
1	BF	246	 25% 56% 17% .
1	BG	246	 24% 56% 18% .
1	BH	246	 24% 57% 18% .


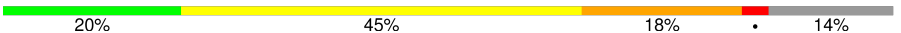
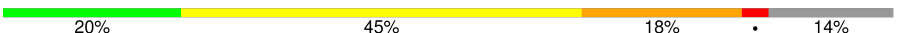


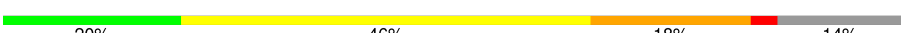
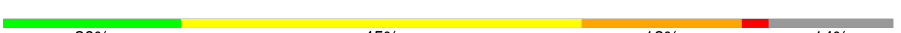




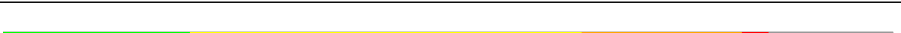













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Mol	Chain	Length	Quality of chain
1	BI	246	
2	C0	230	
2	C1	230	
2	C2	230	
2	C3	230	
2	C4	230	
2	C5	230	
2	C6	230	
2	C7	230	
2	C8	230	
2	C9	230	
2	CA	230	
2	CB	230	
2	CC	230	
2	CD	230	
2	CE	230	
2	CF	230	
2	CG	230	
2	CH	230	
2	CI	230	
2	CJ	230	
2	CK	230	
2	CL	230	
2	CM	230	
2	CN	230	












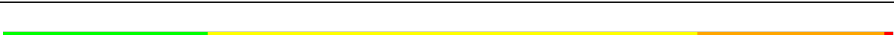

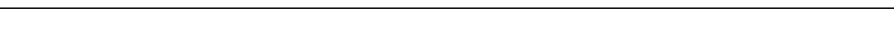
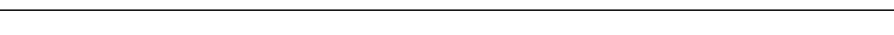
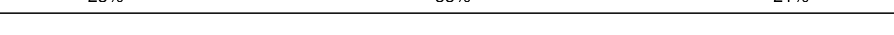
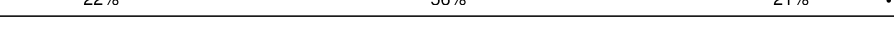
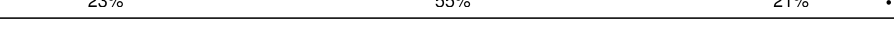
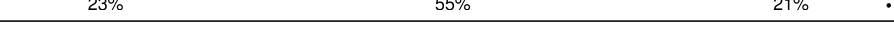
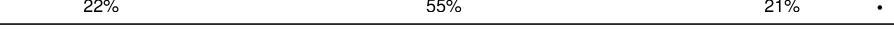
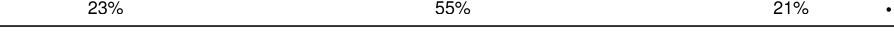
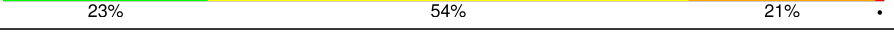
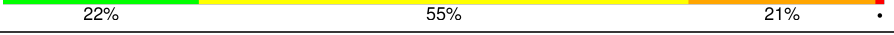
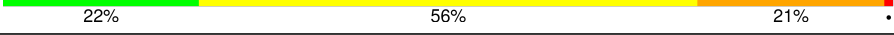
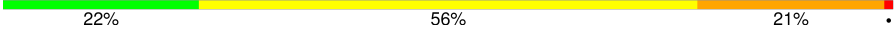
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Mol	Chain	Length	Quality of chain
2	CO	230	
2	CP	230	
2	CQ	230	
2	CR	230	
2	CS	230	
2	CT	230	
2	CU	230	
2	CV	230	
2	CW	230	
2	CX	230	
2	CY	230	
2	CZ	230	
2	Ca	230	
2	Cb	230	
2	Cc	230	
2	Cd	230	
2	Ce	230	
2	Cf	230	
2	Cg	230	
2	Ch	230	
2	Ci	230	
2	Cj	230	
2	Ck	230	
2	Cl	230	
2	Cm	230	

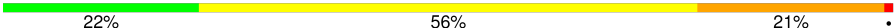
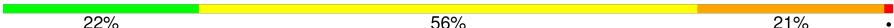
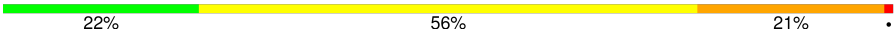
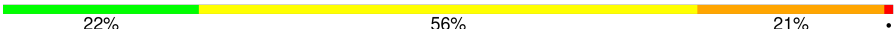
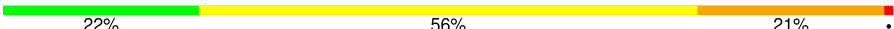
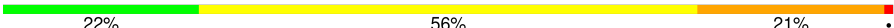
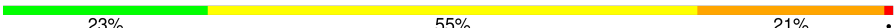
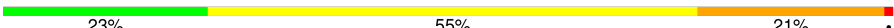
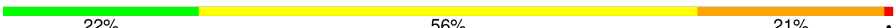
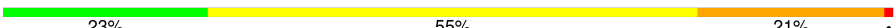
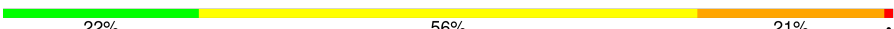
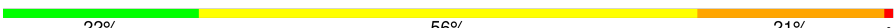
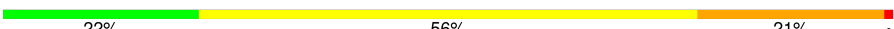
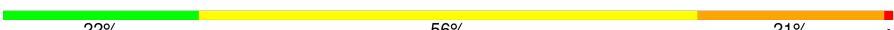
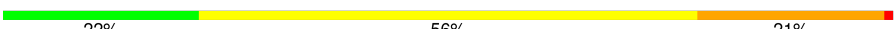
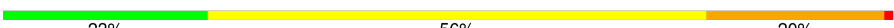
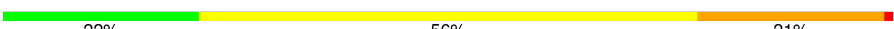
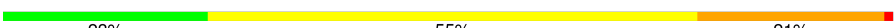
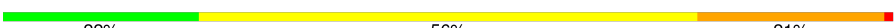
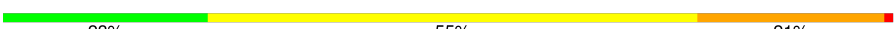
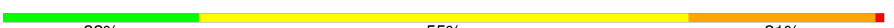




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Mol	Chain	Length	Quality of chain
2	Cn	230	
2	Co	230	
2	Cp	230	
2	Cq	230	
2	Cr	230	
2	Cs	230	
2	Ct	230	
2	Cu	230	
2	Cv	230	
2	Cw	230	
2	Cx	230	
3	D0	226	
3	D1	226	
3	D2	226	
3	D3	226	
3	D4	226	
3	D5	226	
3	D6	226	
3	D7	226	
3	D8	226	
3	D9	226	
3	DA	226	
3	DB	226	
3	DC	226	
3	DD	226	














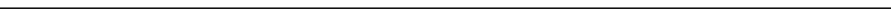



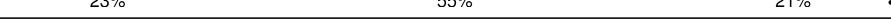
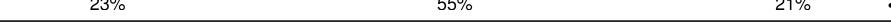
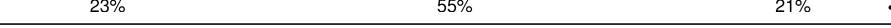
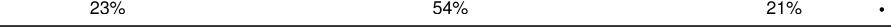
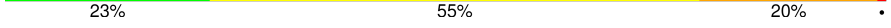



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Mol	Chain	Length	Quality of chain
3	DE	226	
3	DF	226	
3	DG	226	
3	DH	226	
3	DI	226	
3	DJ	226	
3	DK	226	
3	DL	226	
3	DM	226	
3	DN	226	
3	DO	226	
3	DP	226	
3	DQ	226	
3	DR	226	
3	DS	226	
3	DT	226	
3	DU	226	
3	DV	226	
3	DW	226	
3	DX	226	
3	DY	226	
3	DZ	226	
3	Da	226	
3	Db	226	
3	Dc	226	


























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Mol	Chain	Length	Quality of chain
3	Dd	226	 69% 29% .
3	De	226	 69% 29% .
3	Df	226	 69% 29% .
3	Dg	226	 69% 29% .
3	Dh	226	 69% 29% .
3	Di	226	 69% 29% .
3	Dj	226	 70% 28% .
3	Dk	226	 69% 29% .
3	Dl	226	 69% 29% .
3	Dm	226	 69% 29% .
3	Dn	226	 69% 29% .
3	Do	226	 69% 29% .
3	Dp	226	 69% 29% .
3	Dq	226	 70% 28% .
3	Dr	226	 69% 29% .
3	Ds	226	 69% 29% .
3	EA	226	 23% 55% 21% .
3	EB	226	 23% 55% 21% .
3	EC	226	 23% 55% 21% .
3	ED	226	 23% 54% 21% .
3	EE	226	 23% 55% 20% .
4	F0	80	 6% 13% 6% . 73%
4	F1	80	 6% 13% 6% . 73%
4	F2	80	 8% 13% 5% . 73%
4	F3	80	 8% 13% 5% . 73%

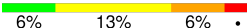
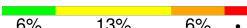
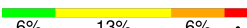
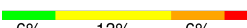
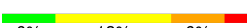
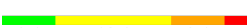







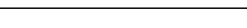











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Mol	Chain	Length	Quality of chain
4	F4	80	 73%
4	F5	80	 73%
4	F6	80	 73%
4	F7	80	 73%
4	F8	80	 73%
4	F9	80	 73%
4	FA	80	 73%
4	FB	80	 73%
4	FC	80	 73%
4	FD	80	 73%
4	FE	80	 73%
4	FF	80	 73%
4	FG	80	 73%
4	FH	80	 73%
4	FI	80	 73%
4	FJ	80	 73%
4	FK	80	 73%
4	FL	80	 73%
4	FM	80	 73%
4	FN	80	 73%
4	FO	80	 73%
4	FP	80	 73%
4	FQ	80	 73%
4	FR	80	 73%
4	FS	80	 73%

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Mol	Chain	Length	Quality of chain
4	FT	80	 73%
4	FU	80	 73%
4	FV	80	 73%
4	FW	80	 73%
4	FX	80	 73%
4	FY	80	 73%
4	FZ	80	 73%
4	Fa	80	 73%
4	Fb	80	 73%
4	Fc	80	 73%
4	Fd	80	 73%
4	Fe	80	 73%
4	Ff	80	 73%
4	Fg	80	 73%
4	Fh	80	 73%
4	Fi	80	 73%
4	Fj	80	 73%
4	Fk	80	 73%
4	Fl	80	 73%
4	Fm	80	 73%
4	Fn	80	 73%
4	Fo	80	 73%
4	Fp	80	 73%
4	Fq	80	 73%
4	Fr	80	 73%

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Mol	Chain	Length	Quality of chain
4	Fs	80	<div><div></div><div>19%6%•</div><div>73%</div></div>
4	Ft	80	<div><div></div><div>19%6%•</div><div>73%</div></div>
4	Fu	80	<div><div></div><div>19%6%•</div><div>73%</div></div>
4	Fv	80	<div><div></div><div>19%6%•</div><div>73%</div></div>
4	Fw	80	<div><div></div><div>19%6%•</div><div>73%</div></div>
4	Fx	80	<div><div></div><div>19%6%•</div><div>73%</div></div>

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 1929	C 1240	N 329	O 352	S 8	0	0
1	A1	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	A2	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	A3	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	A4	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	A5	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	A6	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	A7	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	A8	246	Total 1929	C 1240	N 329	O 352	S 8	0	0
1	A9	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
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

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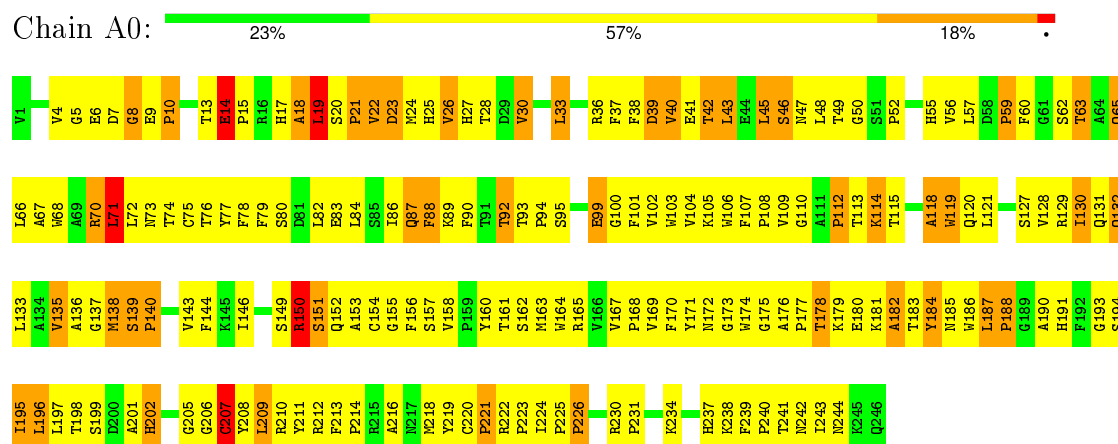
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Mol	Chain	Residues	Atoms					AltConf	Trace
4	Fr	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fs	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Ft	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fu	22	Total 166	C 101	N 29	O 35	S 1	0	1
4	Fv	22	Total 166	C 101	N 29	O 35	S 1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

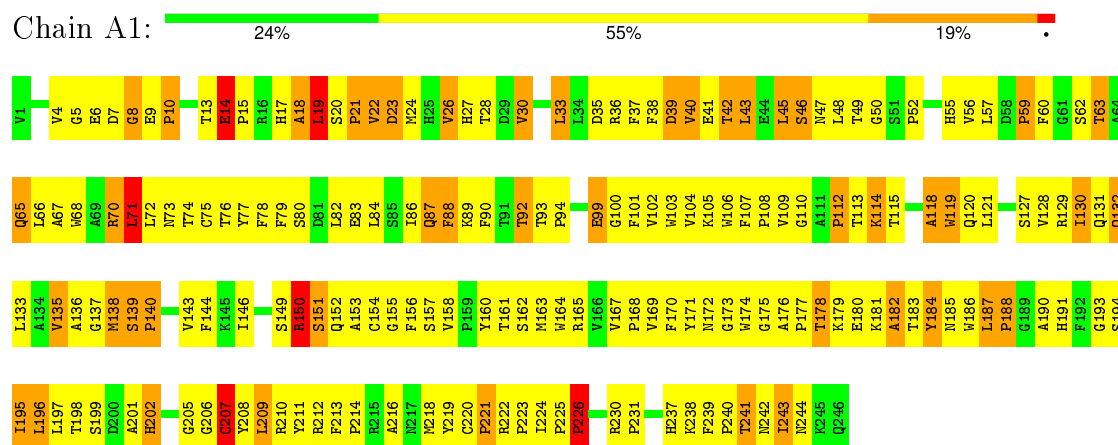
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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.

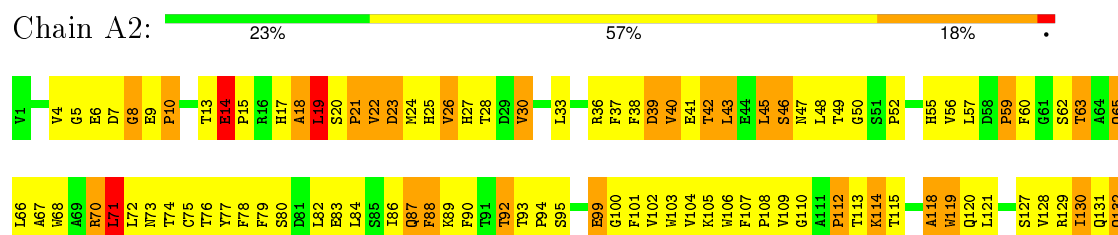
• Molecule 1: VP1

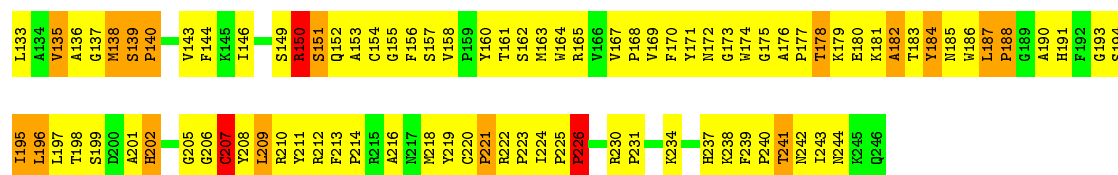


• Molecule 1: VP1



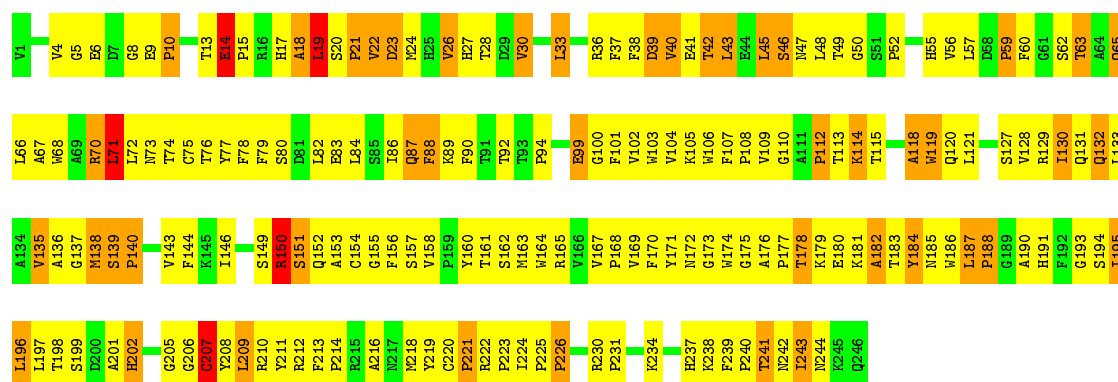
• Molecule 1: VP1





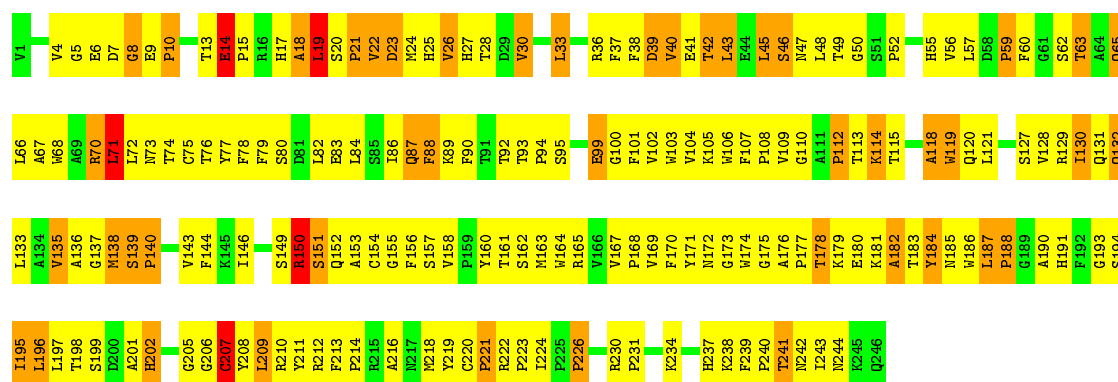
• Molecule 1: VP1

Chain A3: 25% 55% 18%



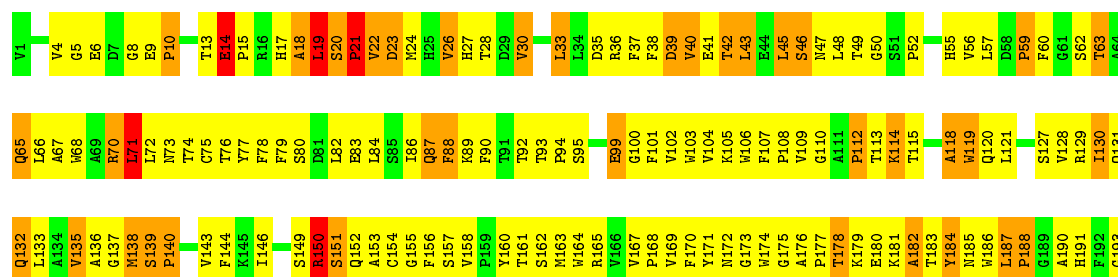
• Molecule 1: VP1

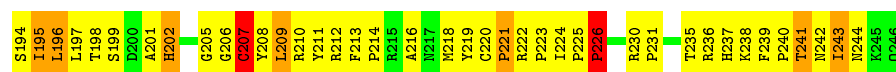
Chain A4: 24% 56% 18%



• Molecule 1: VP1

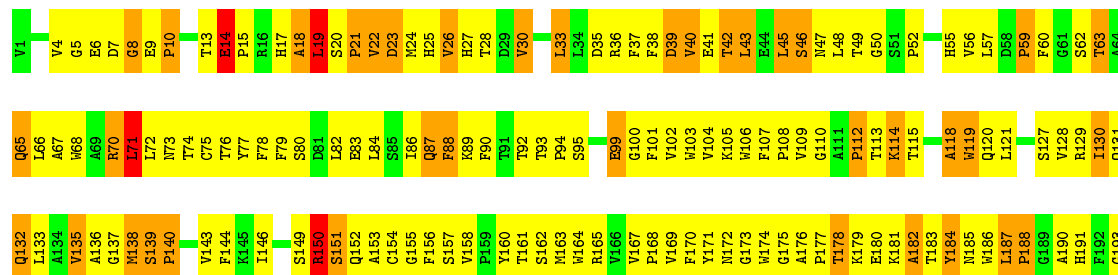
Chain A5: 23% 56% 18%





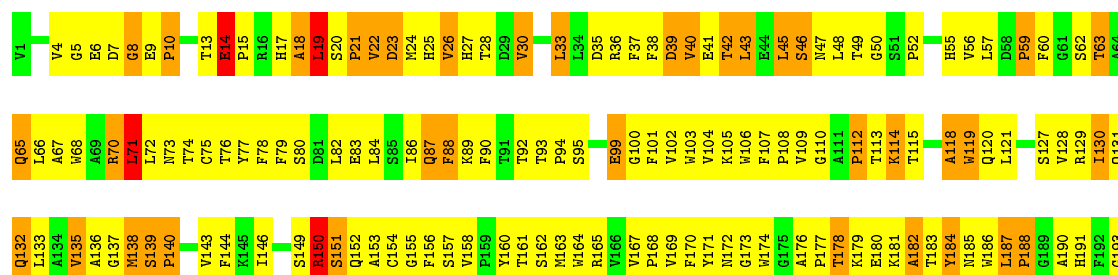
• Molecule 1: VP1

Chain A6: 22% 58% 17%



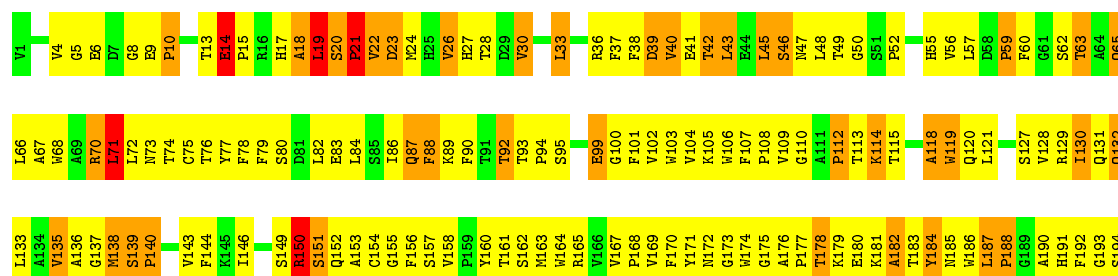
• Molecule 1: VP1

Chain A7: 24% 56% 18%

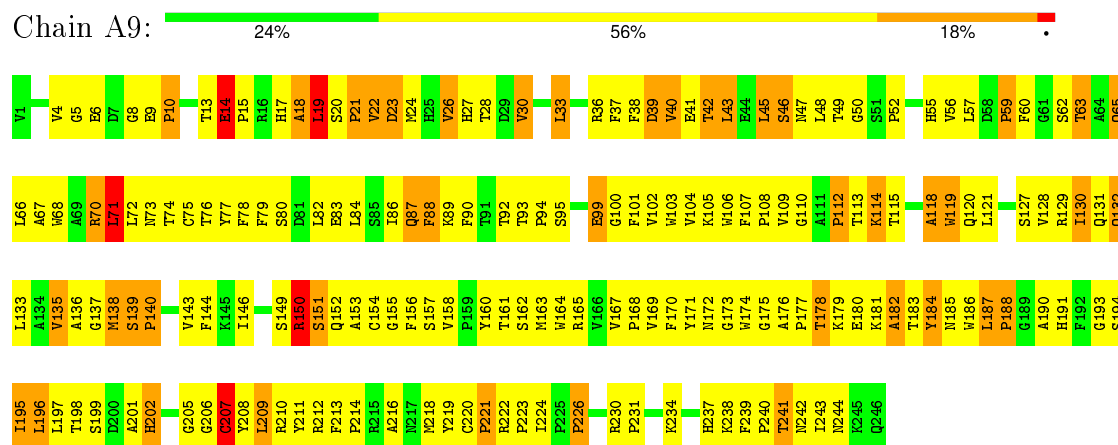


• Molecule 1: VP1

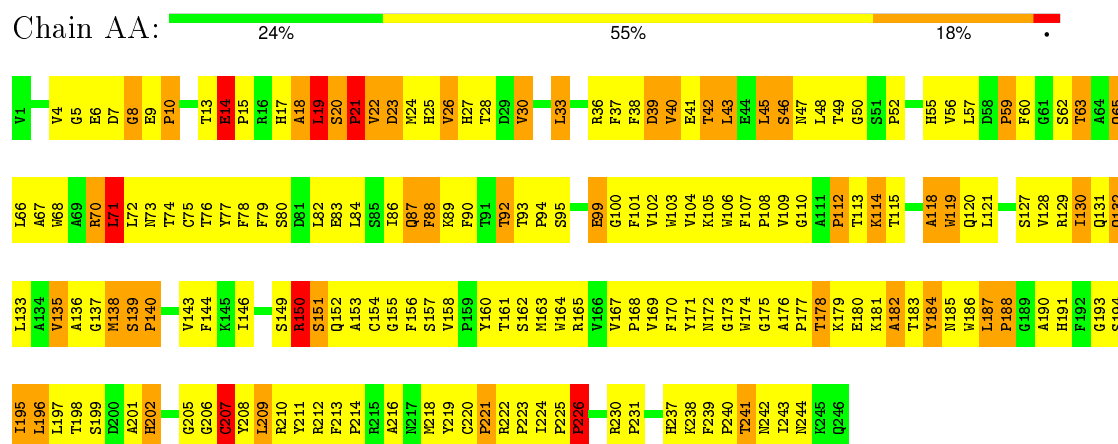
Chain A8: 24% 56% 18%



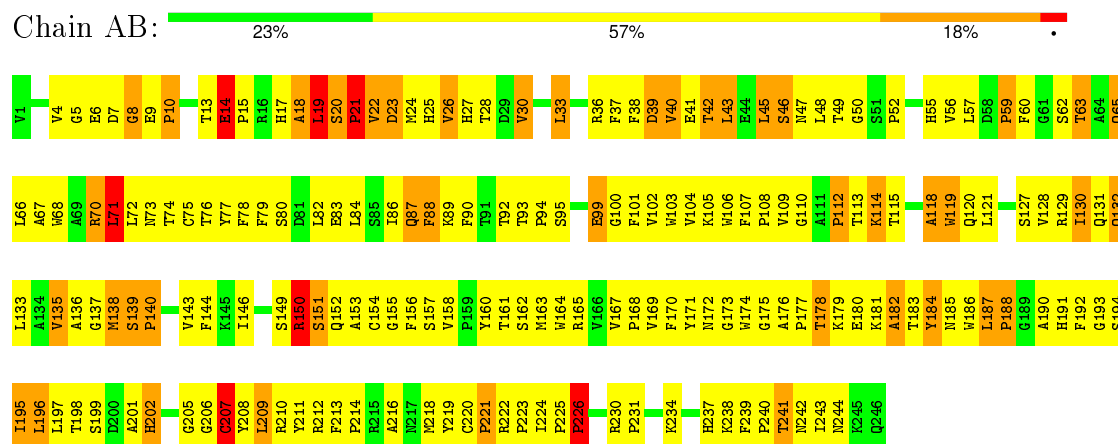
• Molecule 1: VP1



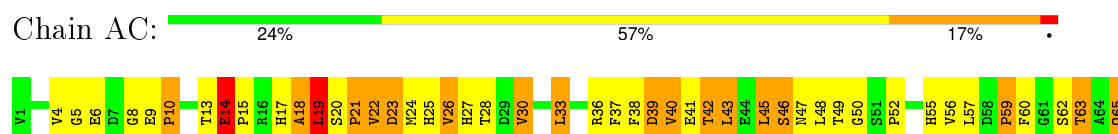
• Molecule 1: VP1

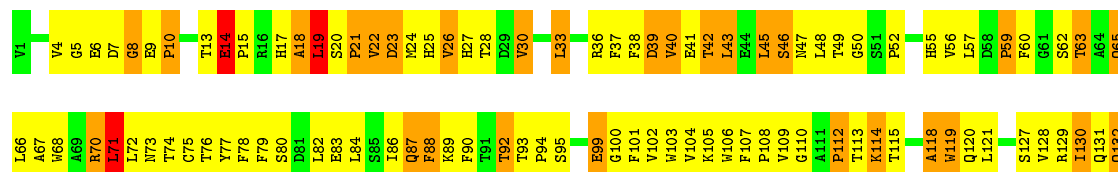


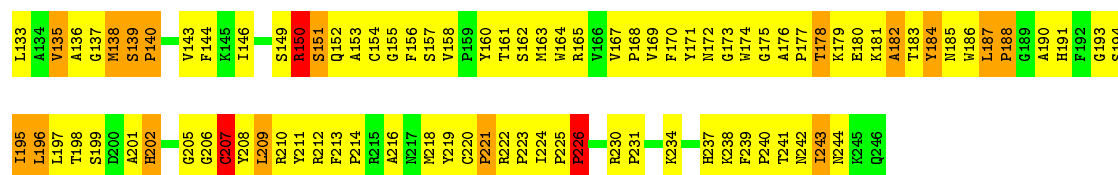
• Molecule 1: VP1



• Molecule 1: VP1

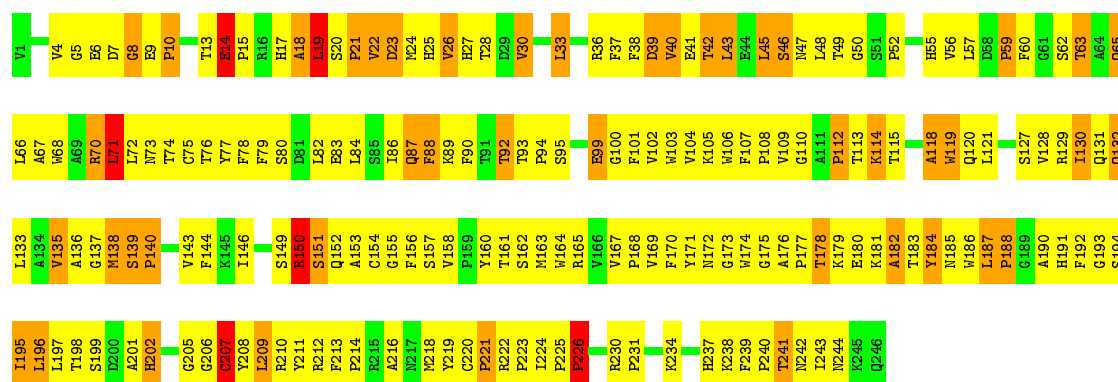






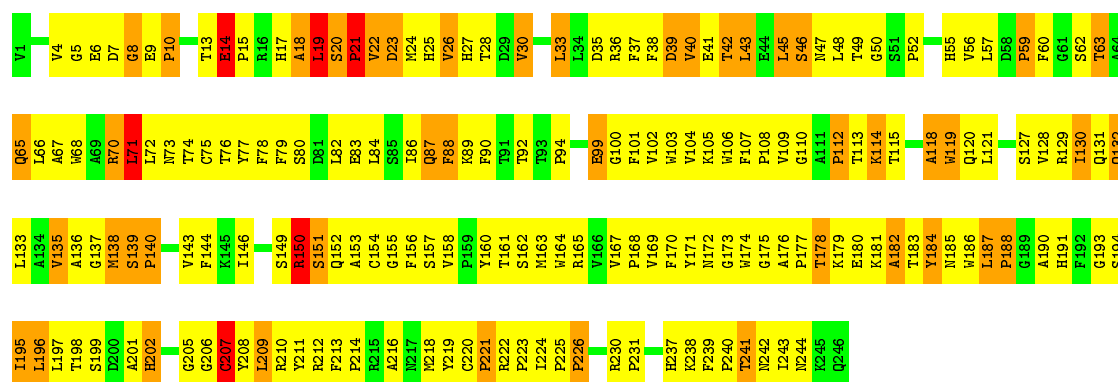
• Molecule 1: VP1

Chain AG: 23% 57% 18% •



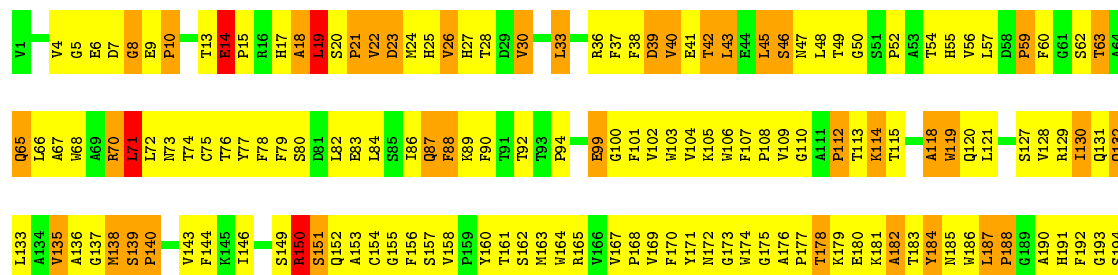
• Molecule 1: VP1

Chain AH: 24% 55% 18% •



• Molecule 1: VP1

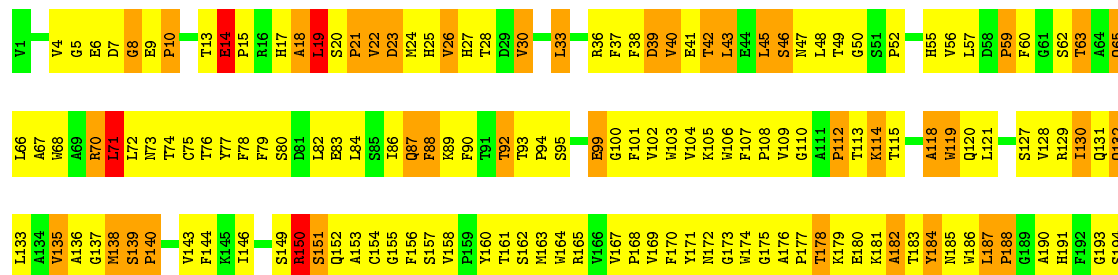
Chain AI: 23% 57% 17% •





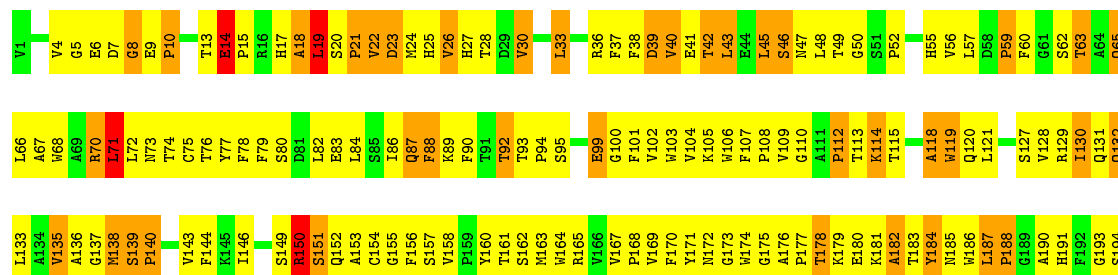
• Molecule 1: VP1

Chain AJ: 23% 57% 18%



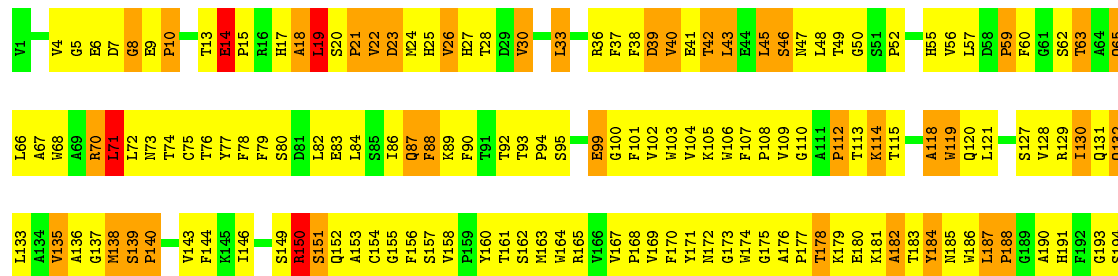
• Molecule 1: VP1

Chain AK: 24% 56% 18%



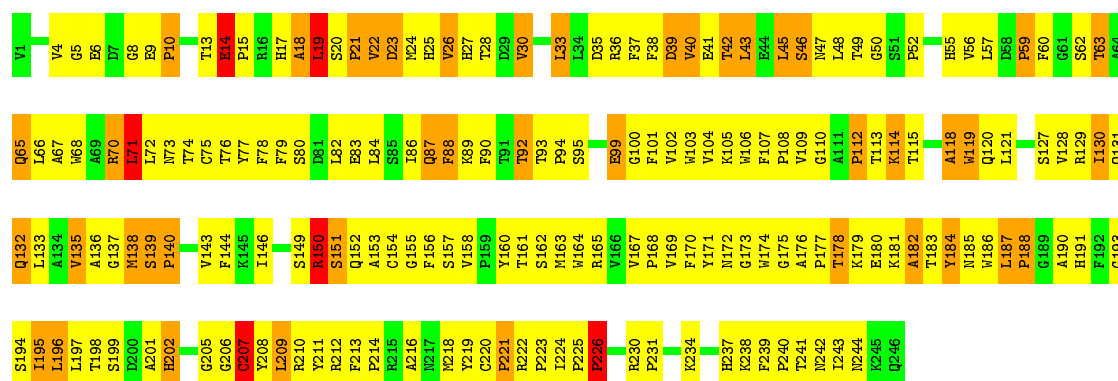
• Molecule 1: VP1

Chain AL: 23% 56% 18%



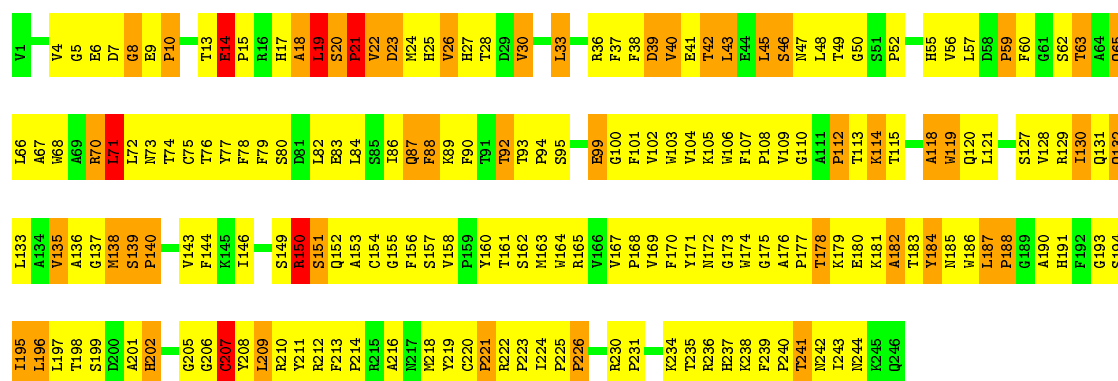
• Molecule 1: VP1

Chain AM: 



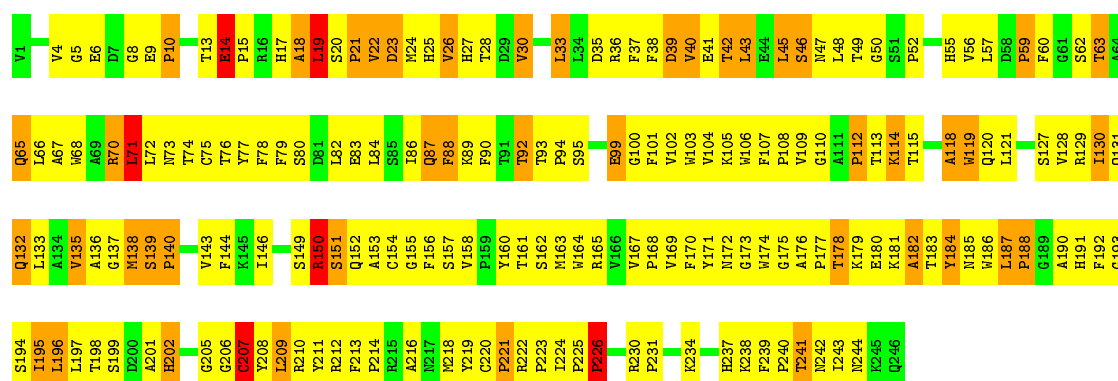
• Molecule 1: VP1

Chain AN: 



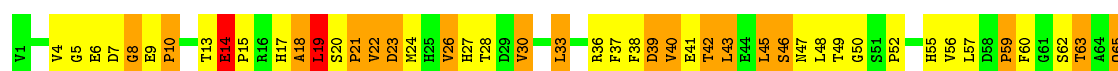
• Molecule 1: VP1

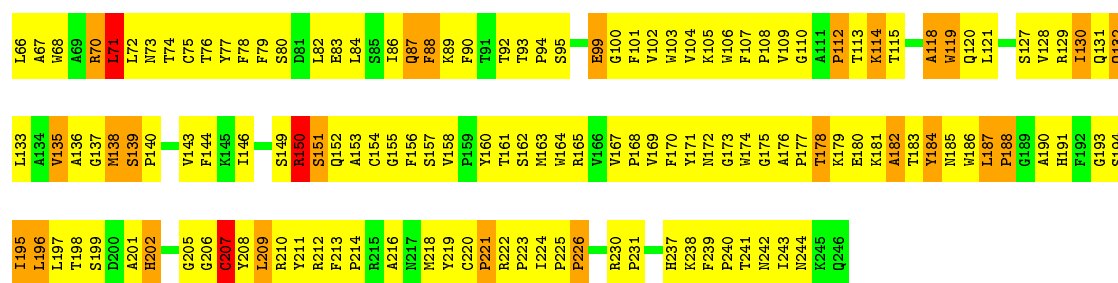
Chain AO: 



• Molecule 1: VP1

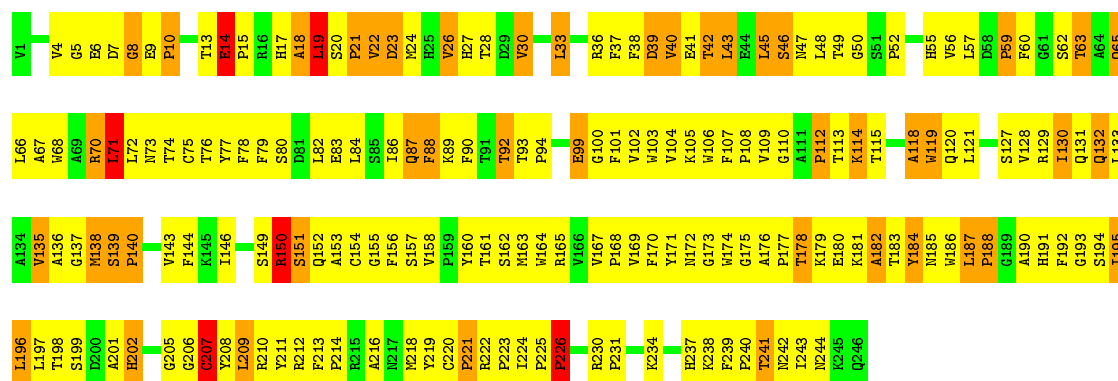
Chain AP: 





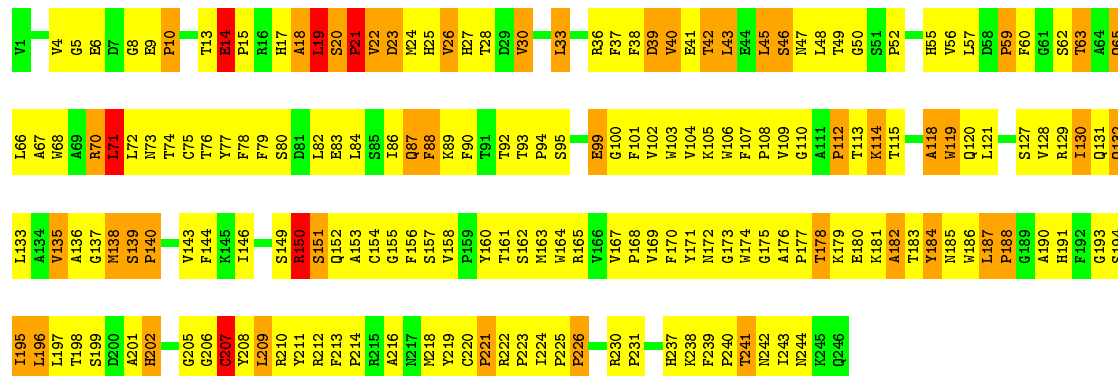
• Molecule 1: VP1

Chain AQ: 24% 56% 18%



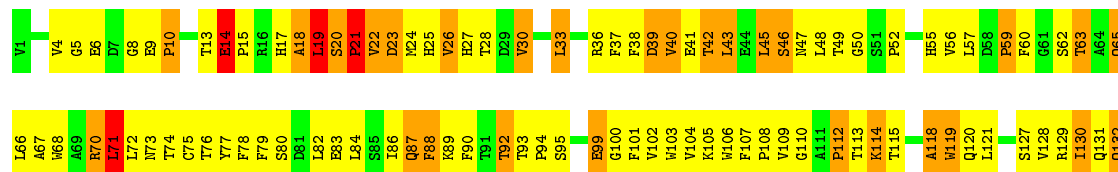
• Molecule 1: VP1

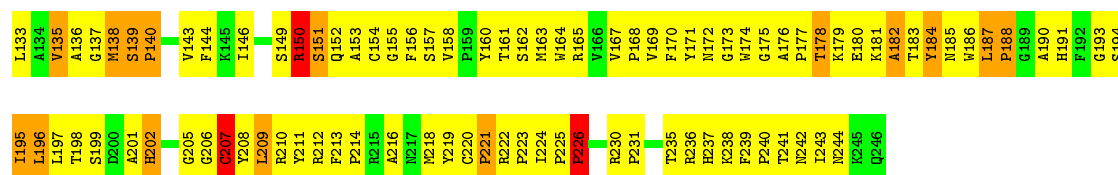
Chain AR: 24% 56% 18%



• Molecule 1: VP1

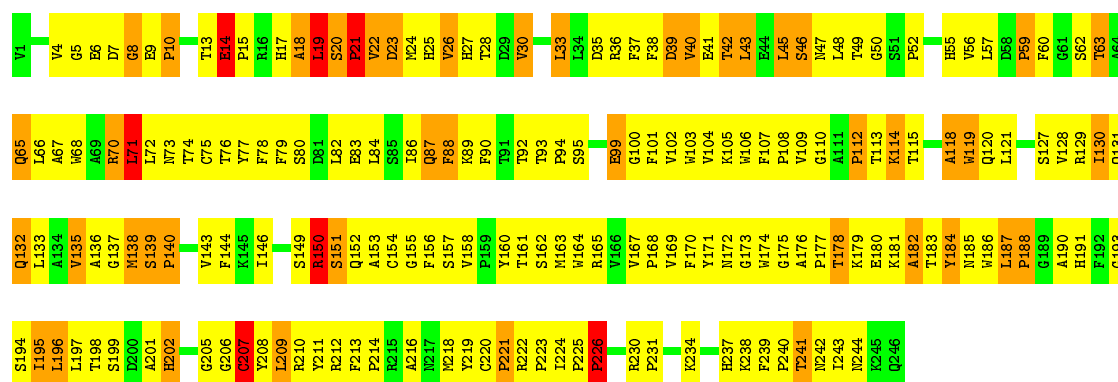
Chain AS: 23% 57% 17%





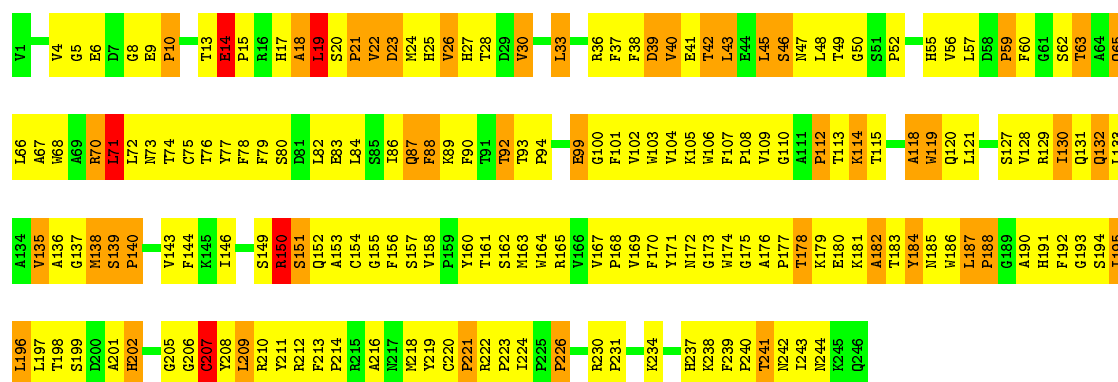
• Molecule 1: VP1

Chain AT: 23% 57% 18%



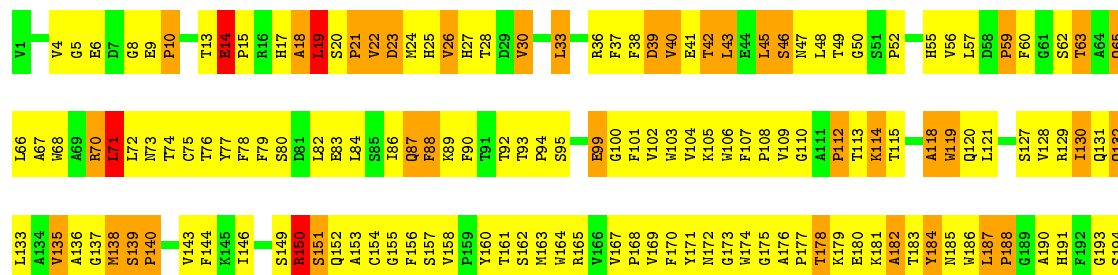
• Molecule 1: VP1

Chain AU: 24% 56% 18%



• Molecule 1: VP1

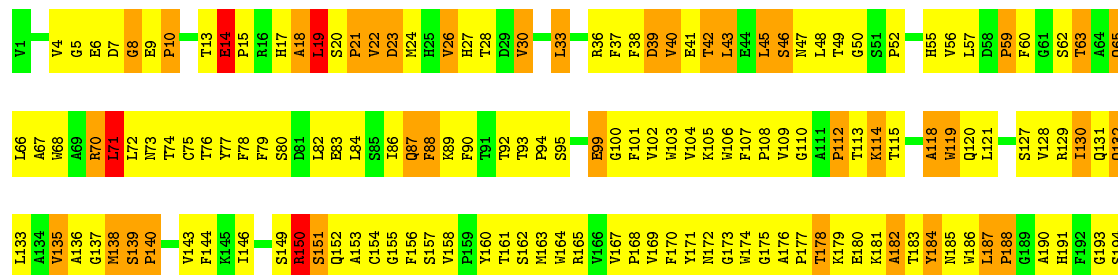
Chain AV: 24% 57% 17%





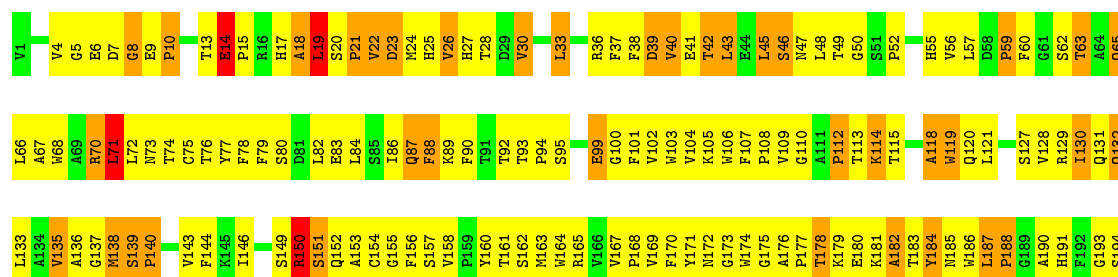
• Molecule 1: VP1

Chain AW: 24% 56% 18%



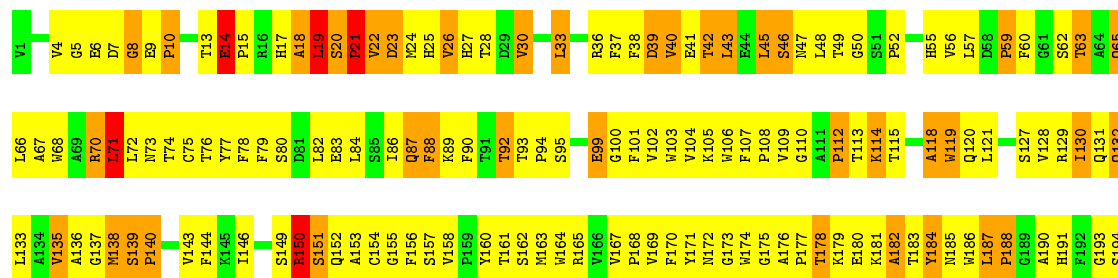
• Molecule 1: VP1

Chain AX: 24% 56% 18%



• Molecule 1: VP1

Chain AY: 23% 56% 19%



• Molecule 1: VP1



Response	Percentage
Yes, the U.S. is a democracy	22%
No, the U.S. is not a democracy	57%
Don't know	18%



72% 25% .



72% 24% ...

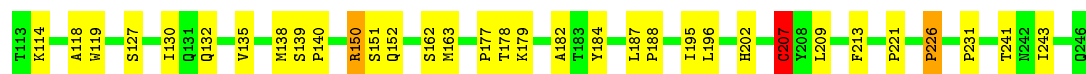


72% 24% . .



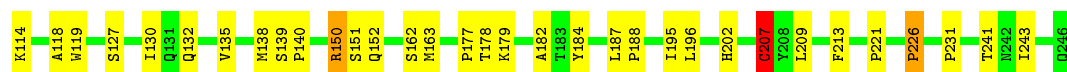
72% 25% .





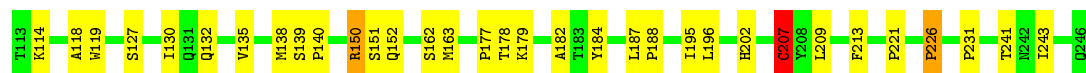
- Molecule 1: VP1

Chain Ae: 72% 24%



- Molecule 1: VP1

Chain Af: 72% 25%



- Molecule 1: VP1

Chain Ag: 72% 25%



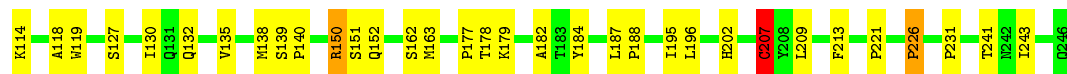
- Molecule 1: VP1

Chain Ah: 72% 25%

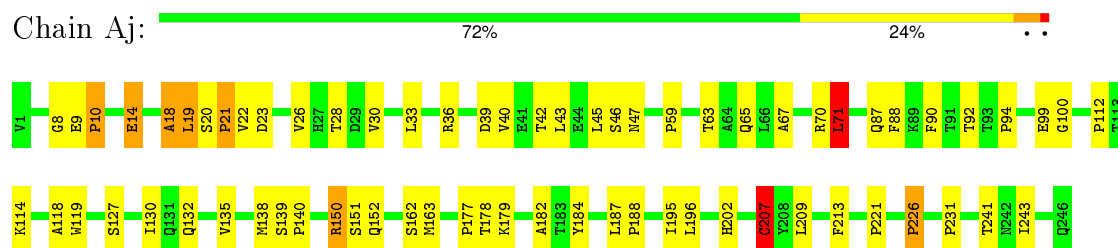


- Molecule 1: VP1

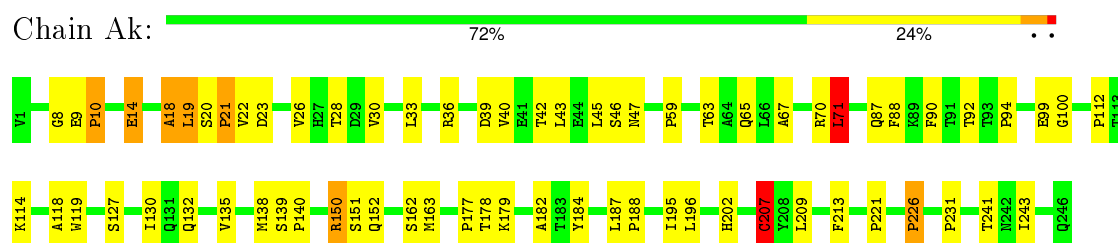
Chain Ai: 72% 24%



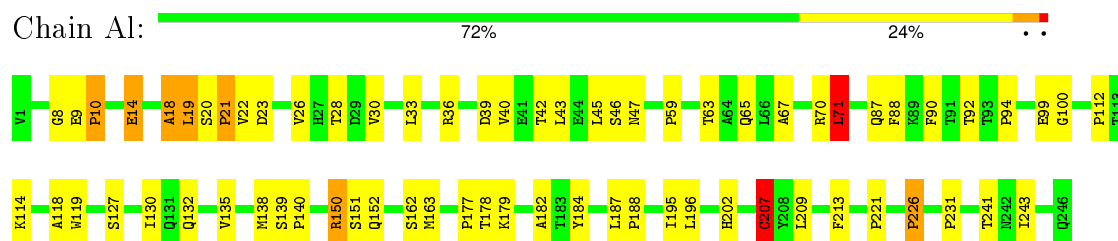
- Molecule 1: VP1



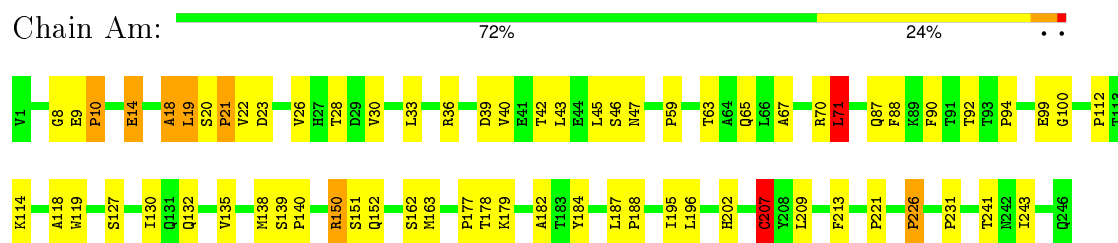
- Molecule 1: VP1



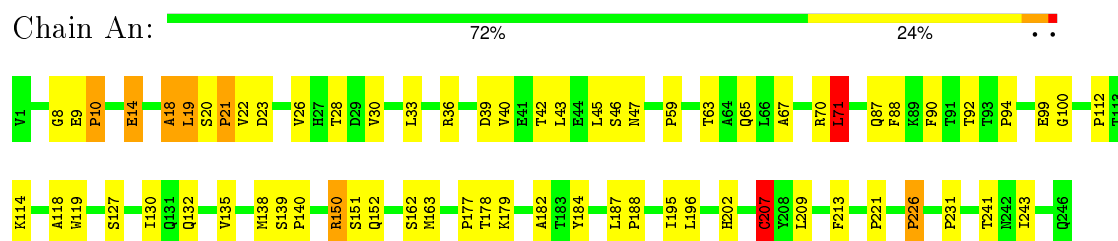
- Molecule 1: VP1



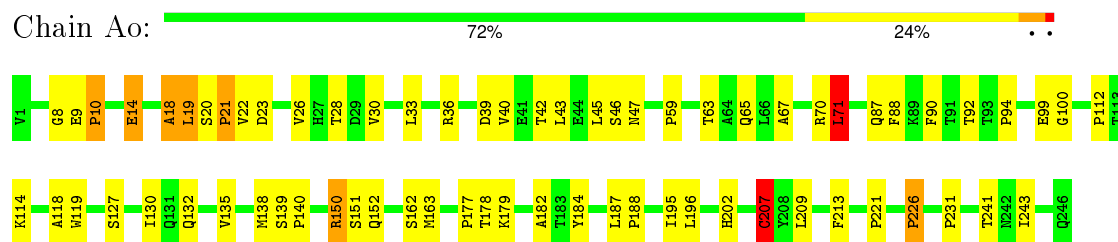
- Molecule 1: VP1



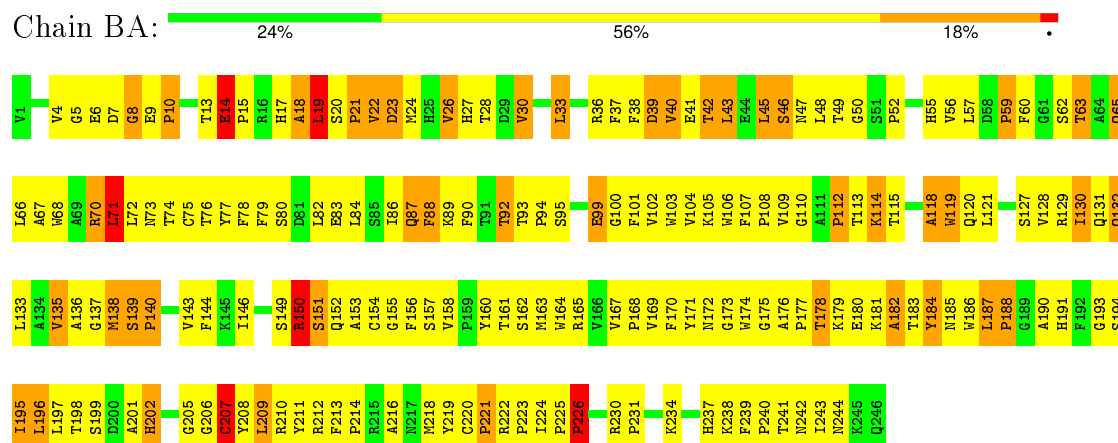
- Molecule 1: VP1



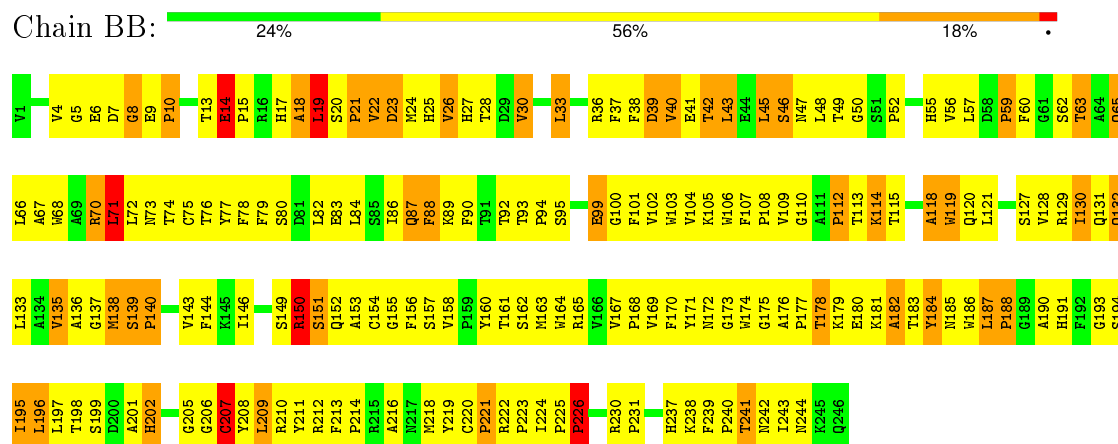
- Molecule 1: VP1



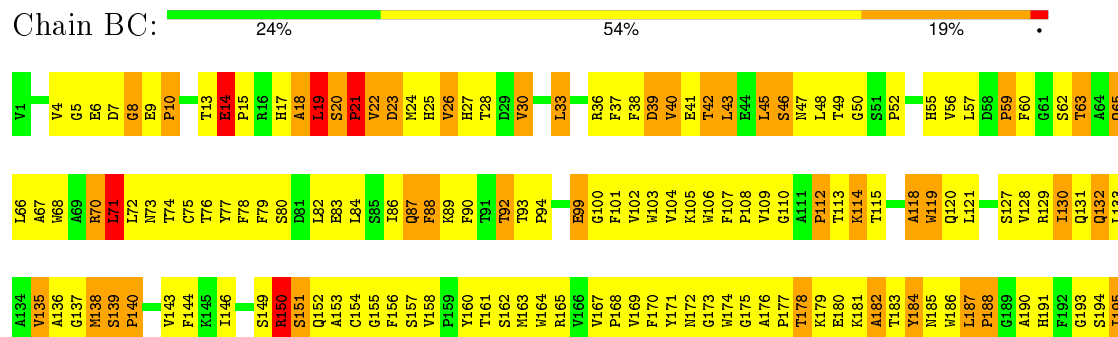
- Molecule 1: VP1



- Molecule 1: VP1



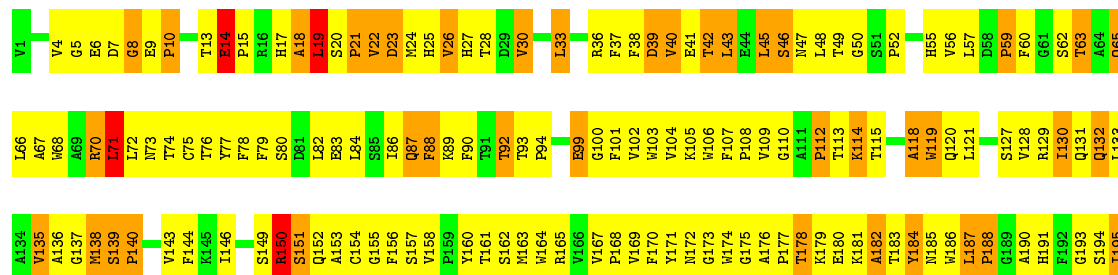
- Molecule 1: VP1





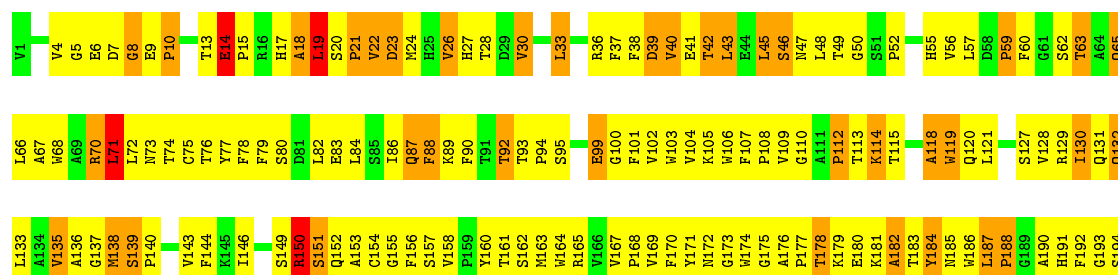
• Molecule 1: VP1

Chain BD: 24% 55% 18%



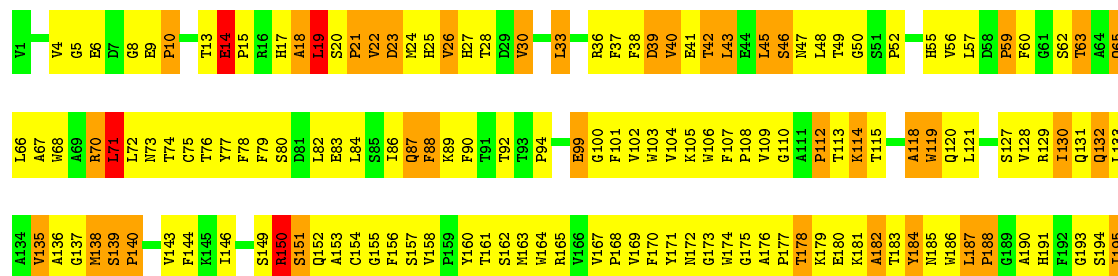
• Molecule 1: VP1

Chain BE: 23% 57% 18%



• Molecule 1: VP1

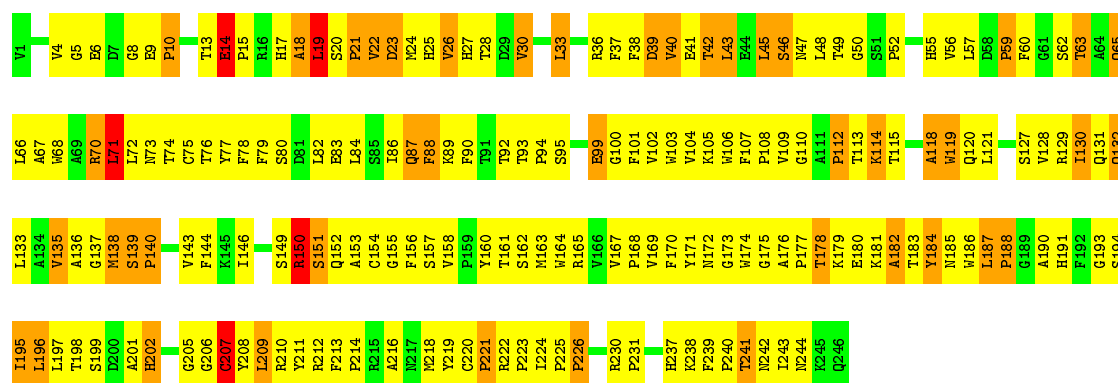
Chain BF: 25% 56% 17%



• Molecule 1: VP1

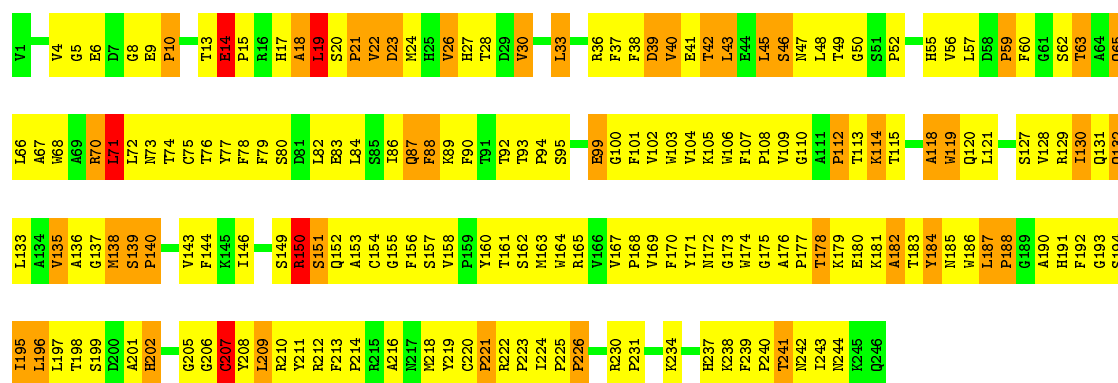


Chain BG: 



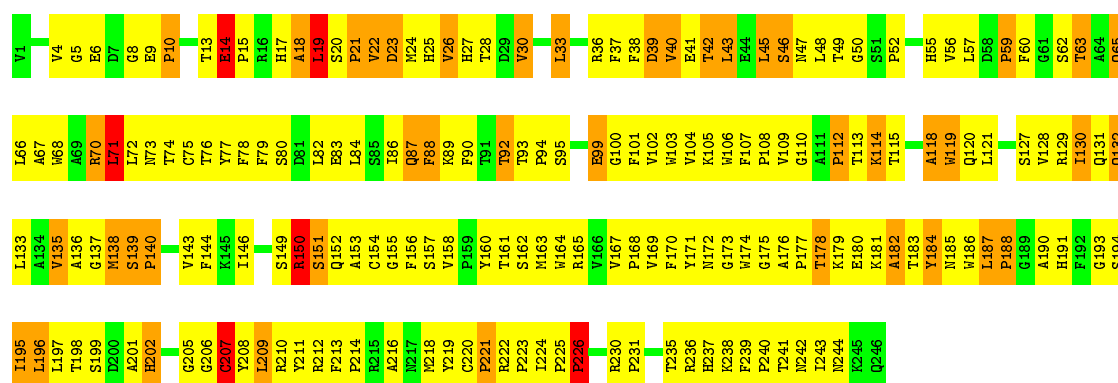
• Molecule 1: VP1

Chain BH: 




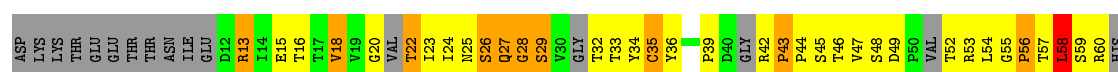
• Molecule 1: VP1

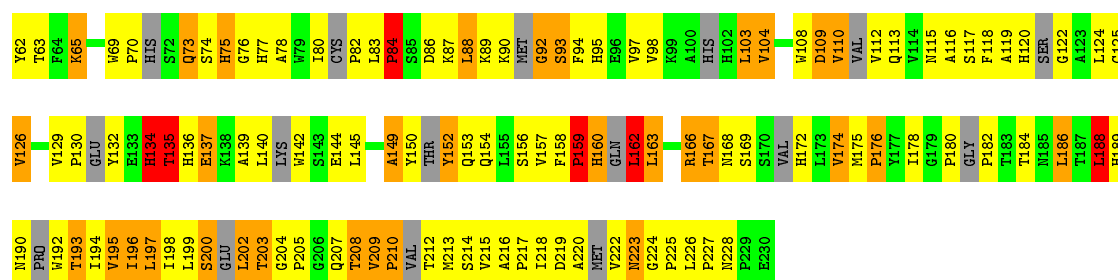
Chain BI: 



• Molecule 2: EQUINE RHINITIS A VIRUS

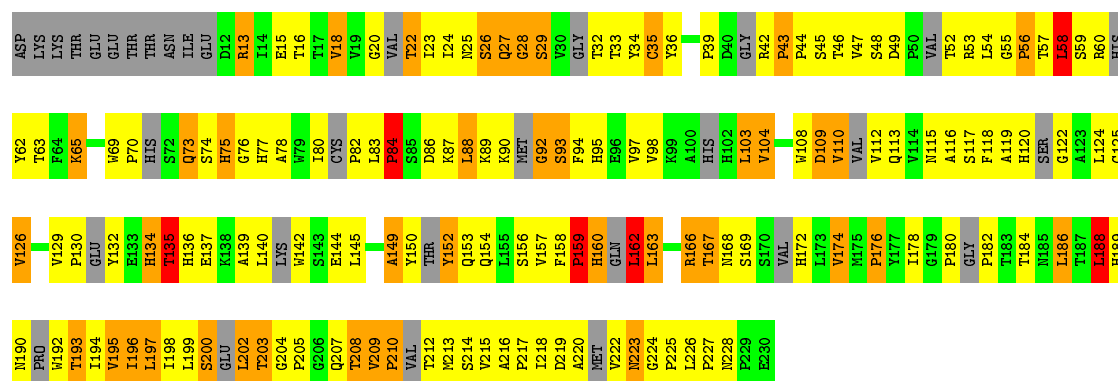
Chain C0: 





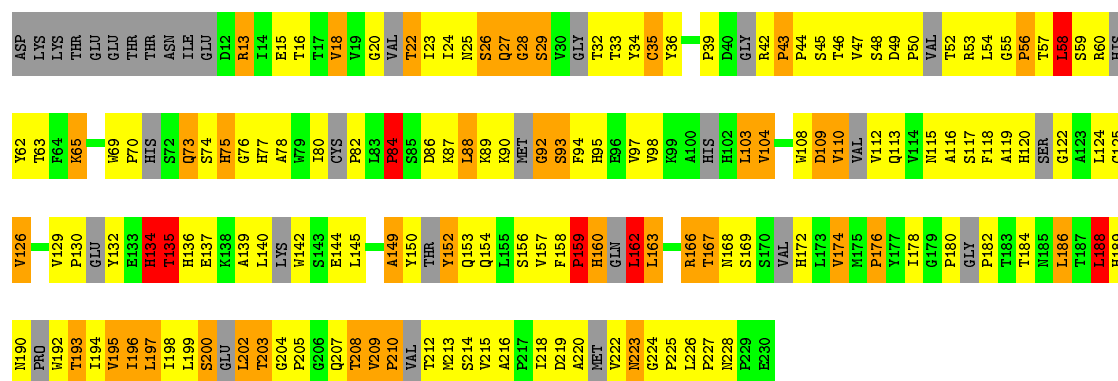
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain C1: 20% 45% 18% • 14%



• Molecule 2: EQUINE RHINITIS A VIRUS

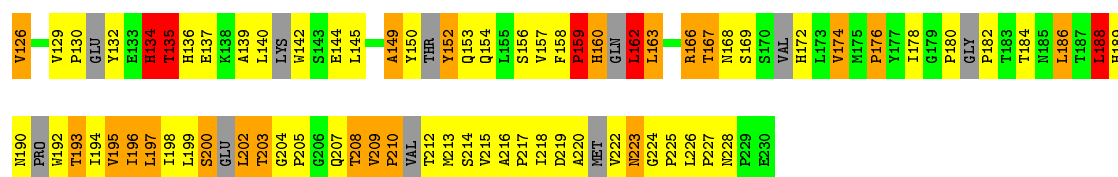
Chain C2: 21% 44% 18% • 14%



• Molecule 2: EQUINE RHINITIS A VIRUS

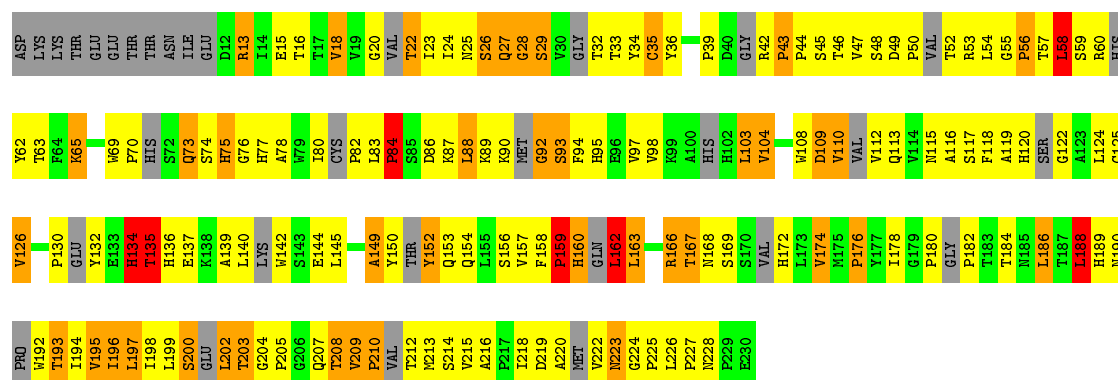
Chain C3: 20% 45% 17% • 14%





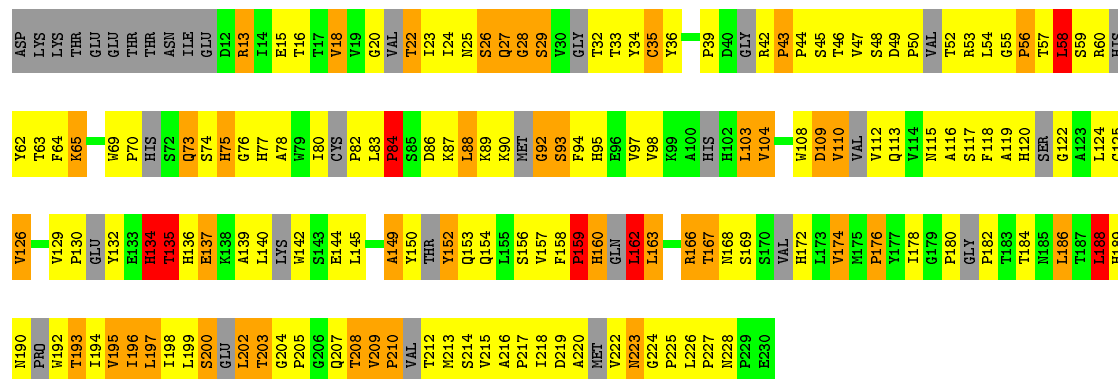
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain C4: 21% 44% 18% • 14%



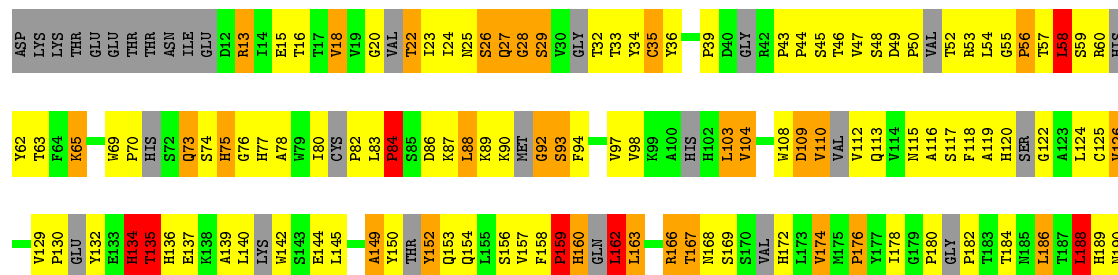
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain C5: 20% 45% 18% • 14%



• Molecule 2: EQUINE RHINITIS A VIRUS

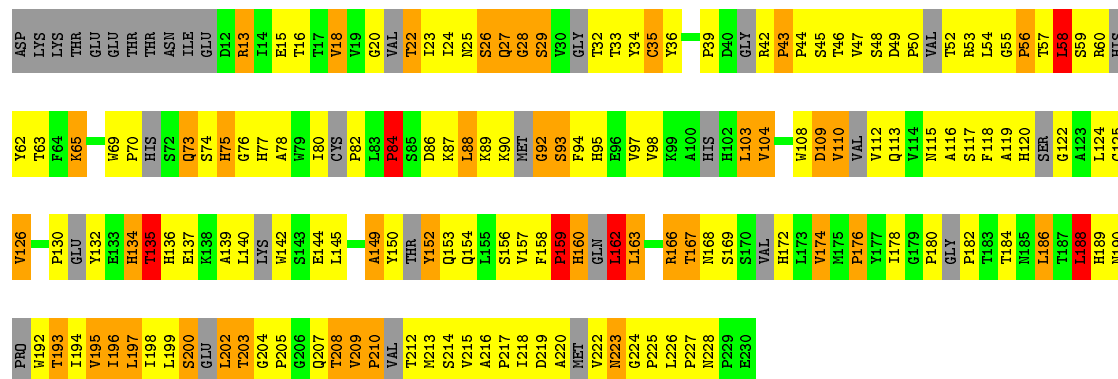
Chain C6: 21% 45% 17% • 14%





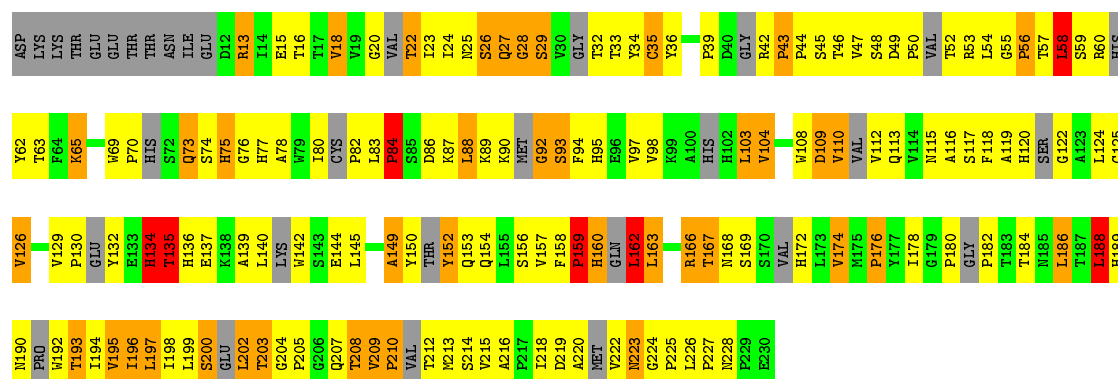
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain C7: 21% 44% 18% • 14%



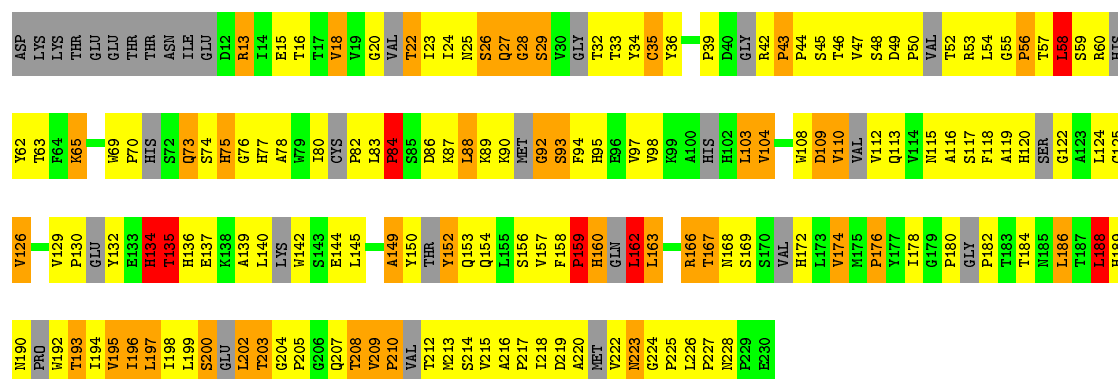
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain C8: 20% 45% 18% • 14%

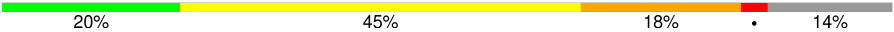


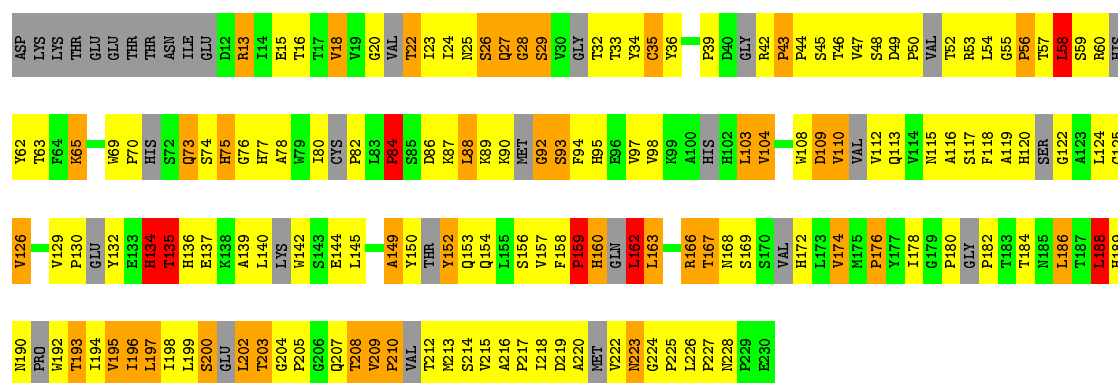
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain C9: 20% 45% 18% • 14%




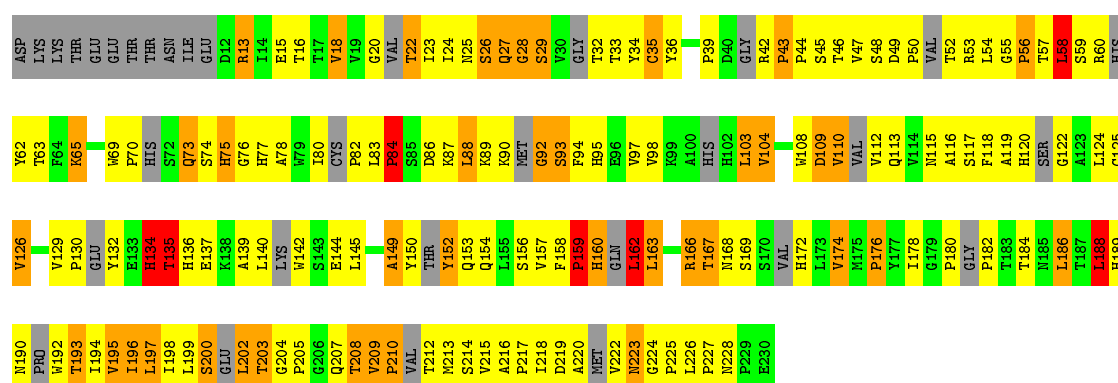
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain CA: 

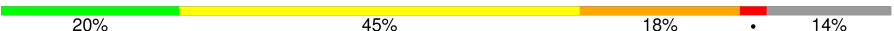


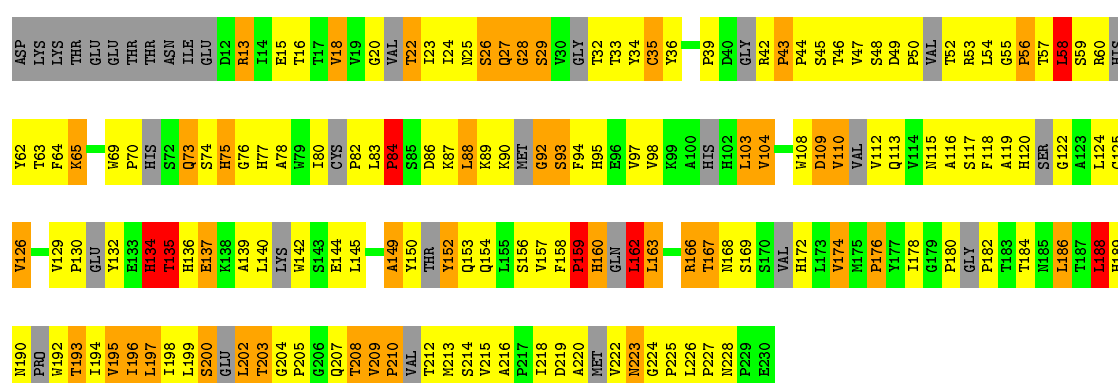
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain CB: 

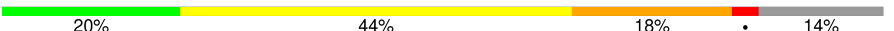


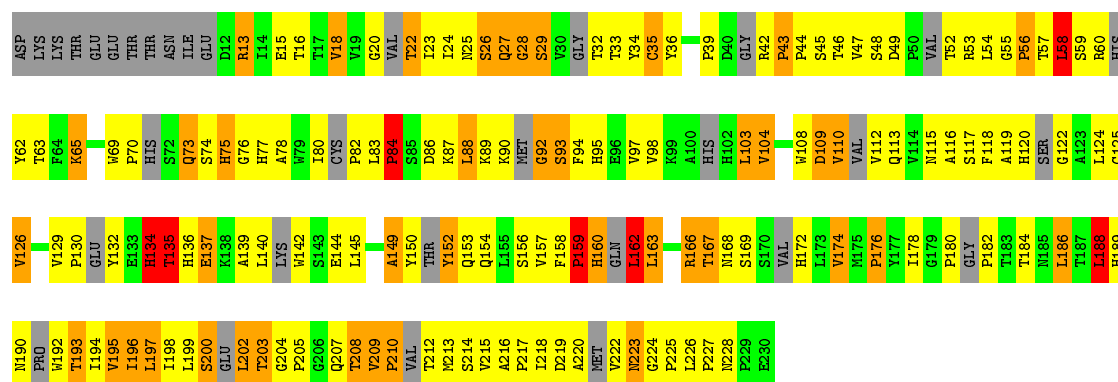
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain CC: 



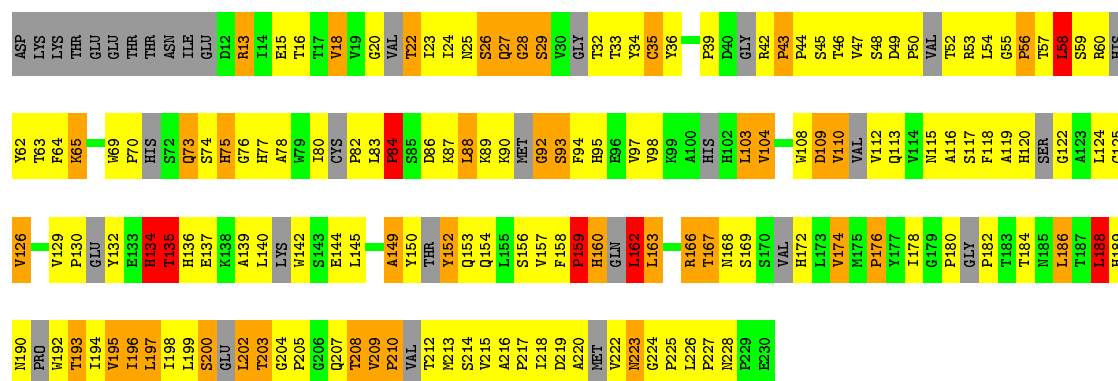
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain CD: 



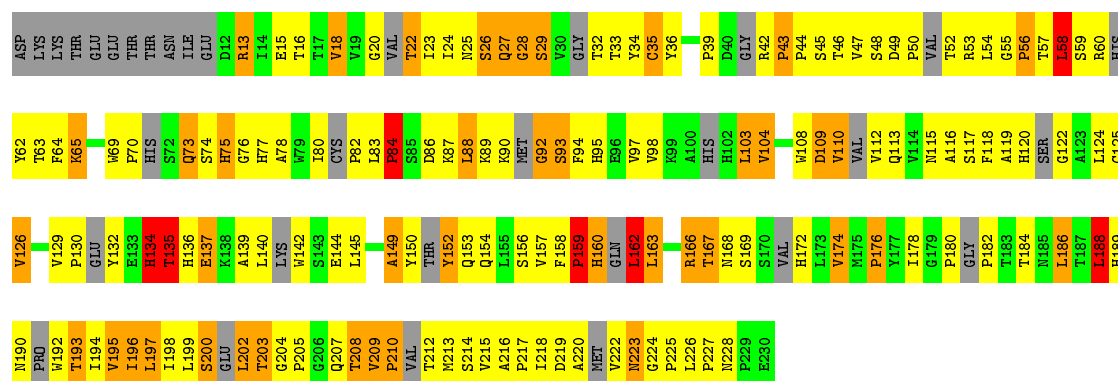
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain CE: 20% 46% 18% 14%



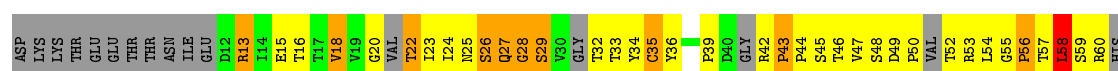
• Molecule 2: EQUINE RHINITIS A VIRUS

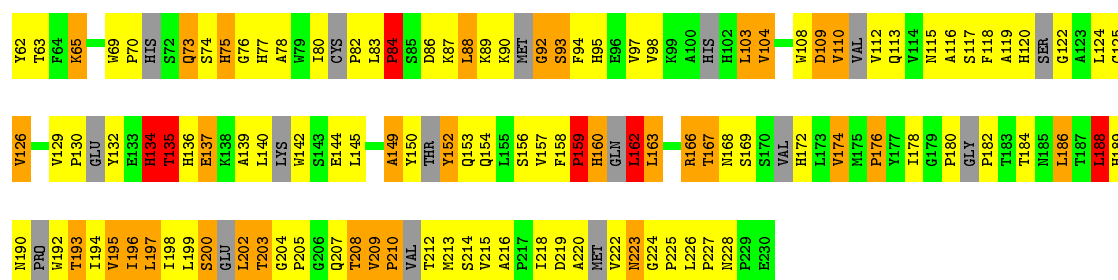
Chain CF: 20% 45% 18% 14%



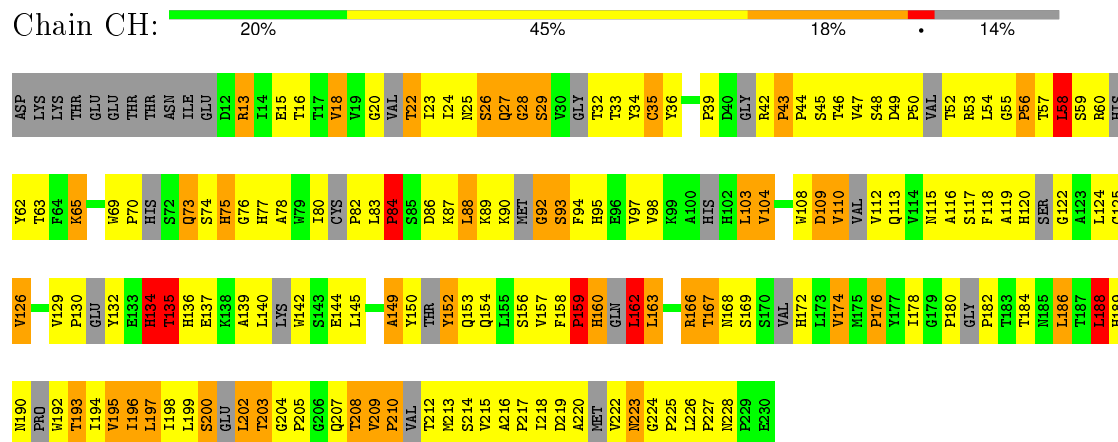
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain CG: 20% 44% 18% 14%

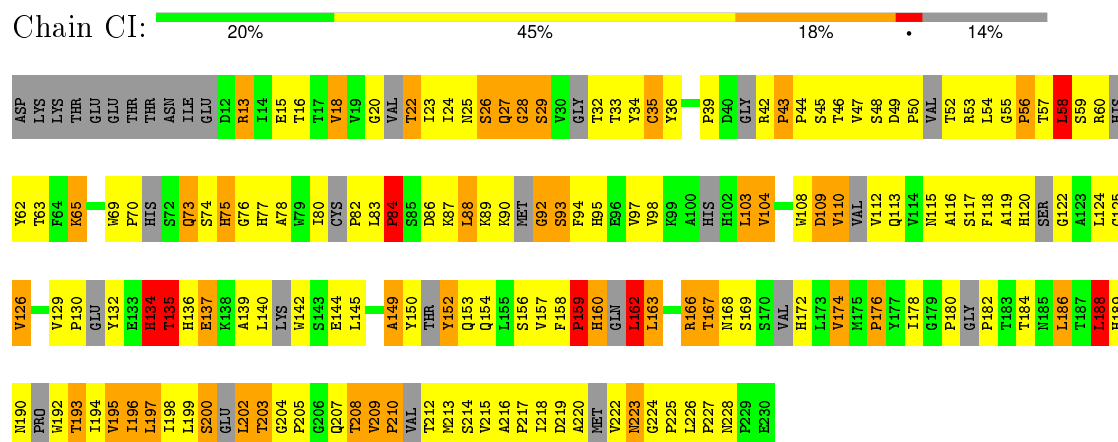




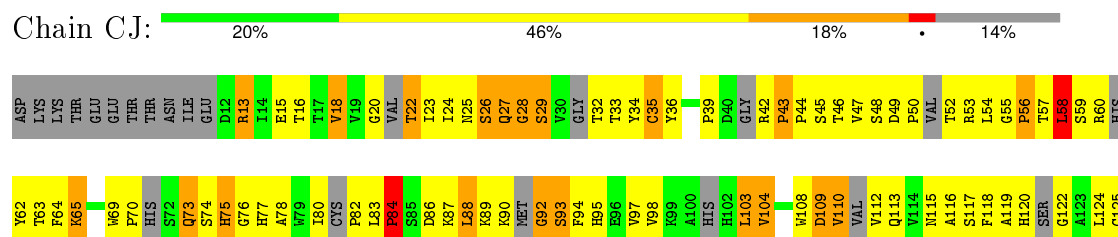
• Molecule 2: EQUINE RHINITIS A VIRUS

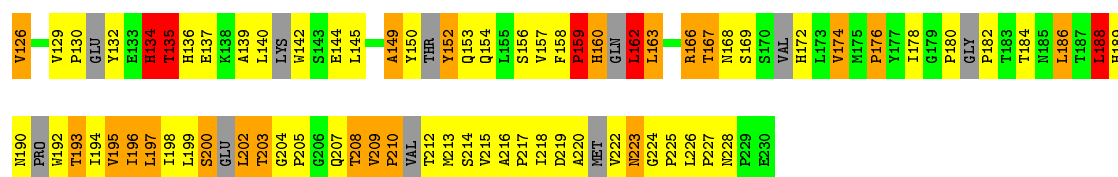


• Molecule 2: EQUINE RHINITIS A VIRUS



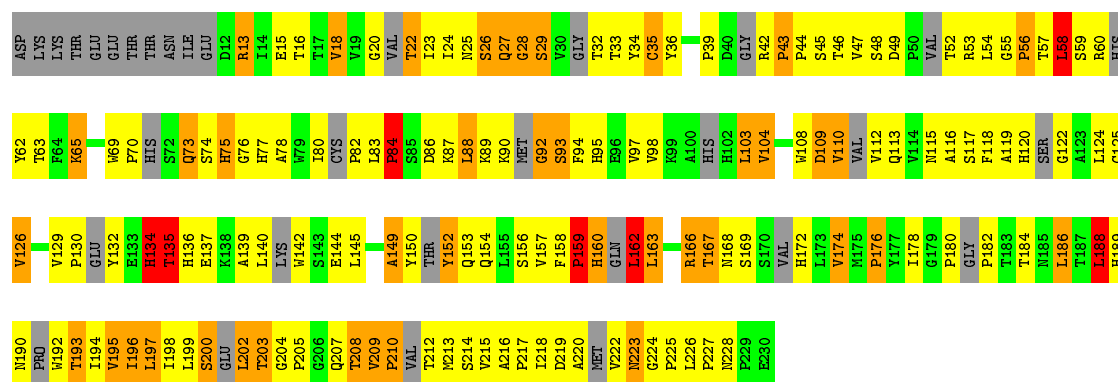
• Molecule 2: EQUINE RHINITIS A VIRUS





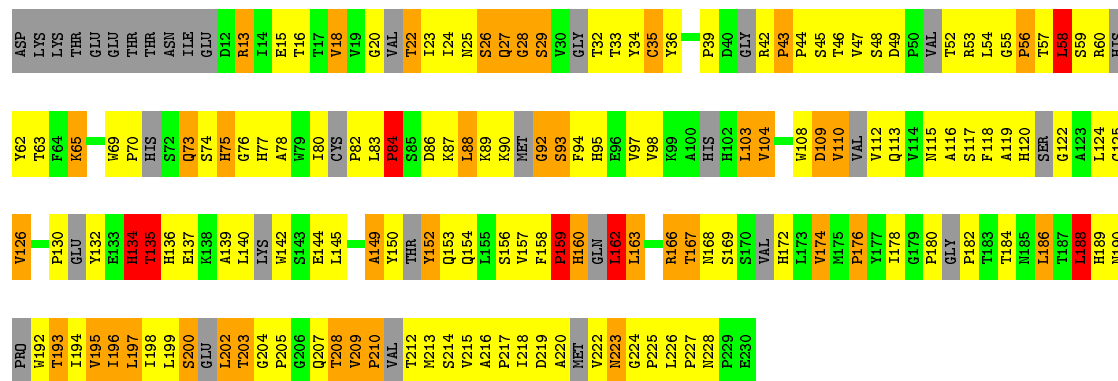
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain CK: 20% 45% 18% 14%



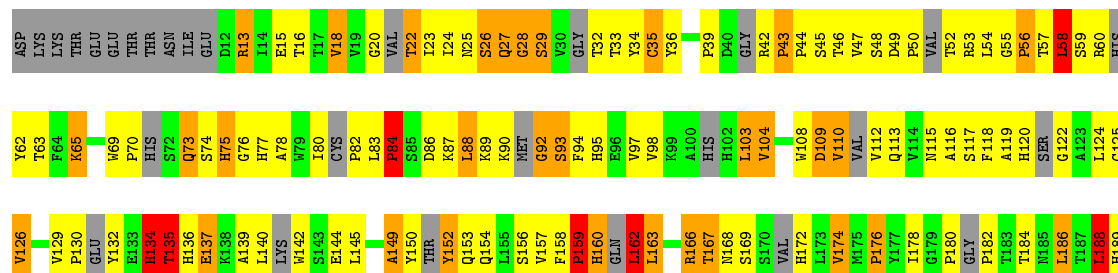
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain CL: 21% 44% 18% 14%



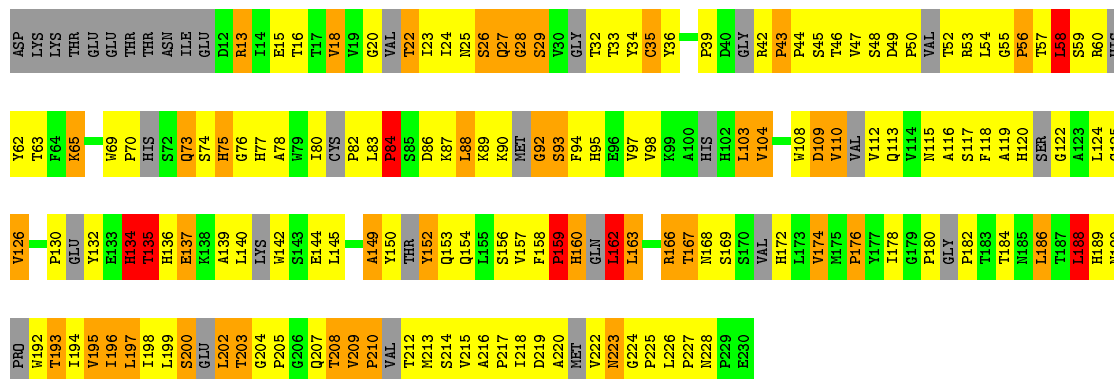
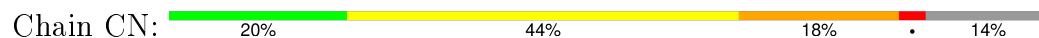
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain CM: 20% 44% 18% 14%

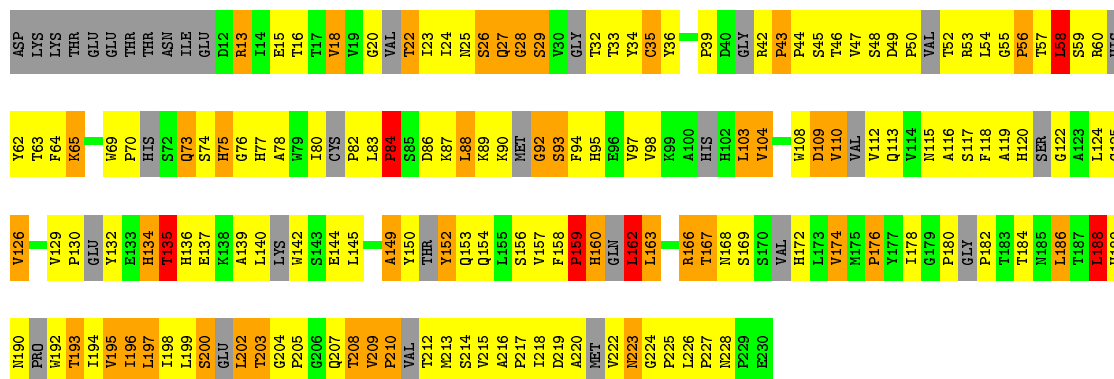
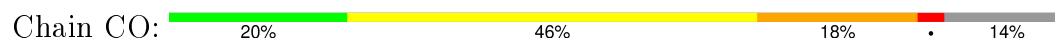




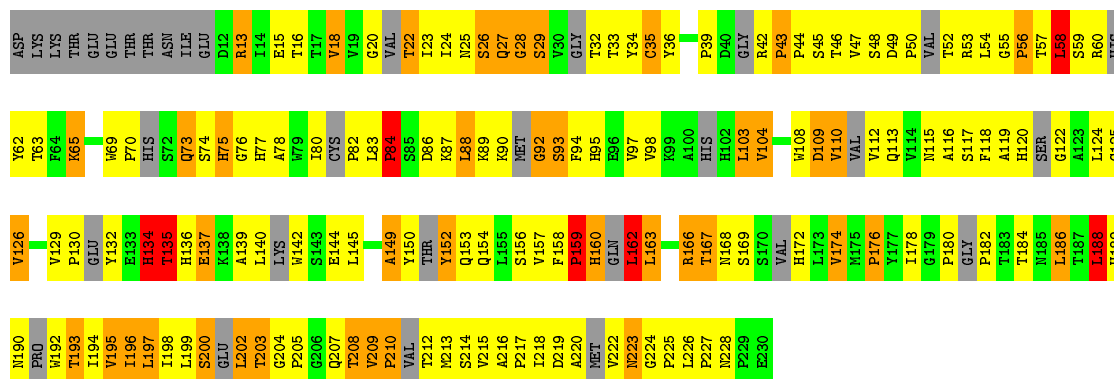
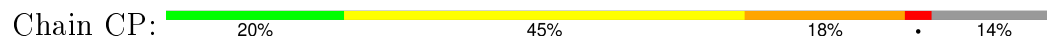
- Molecule 2: EQUINE RHINITIS A VIRUS



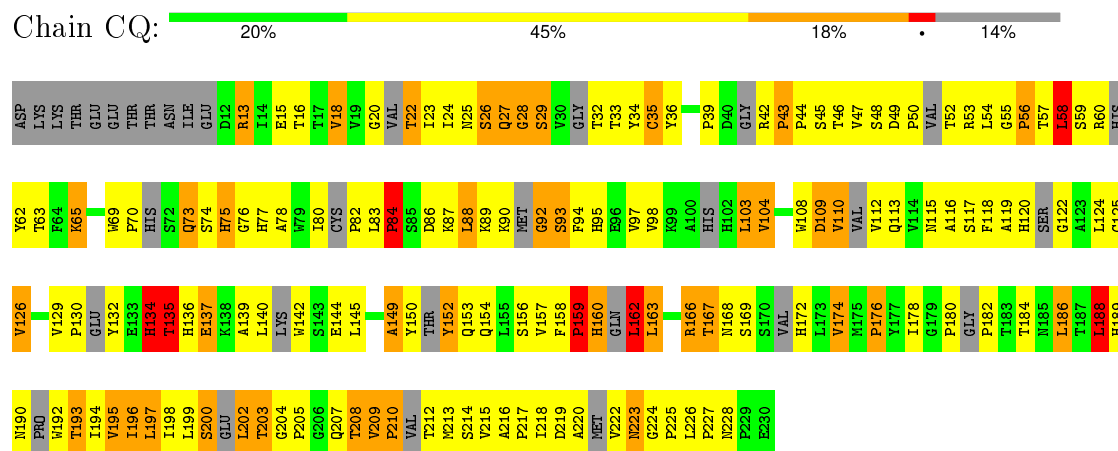
- Molecule 2: EQUINE RHINITIS A VIRUS



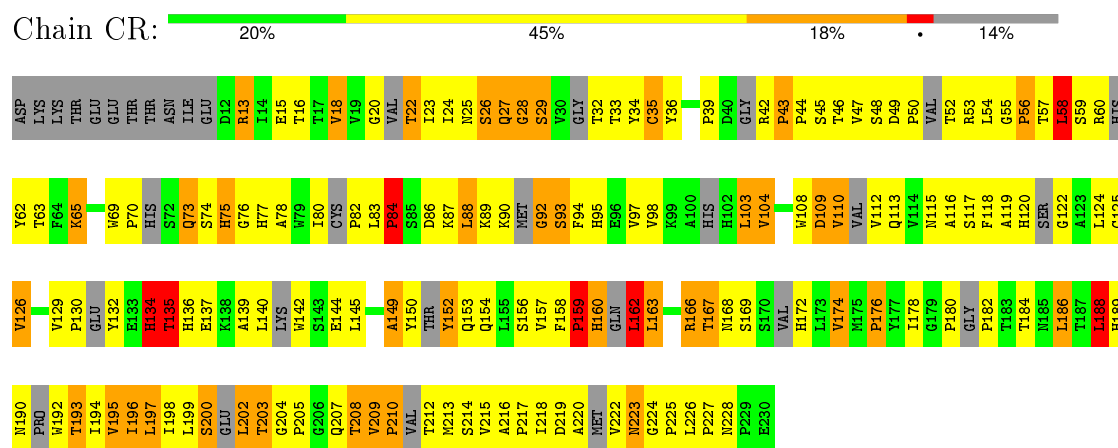
- Molecule 2: EQUINE RHINITIS A VIRUS



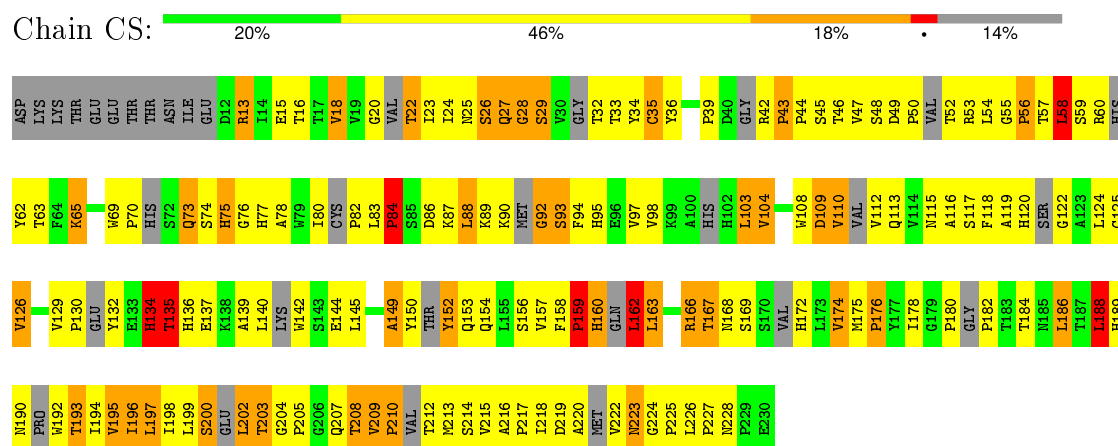
- Molecule 2: EQUINE RHINITIS A VIRUS



• Molecule 2: EQUINE RHINITIS A VIRUS

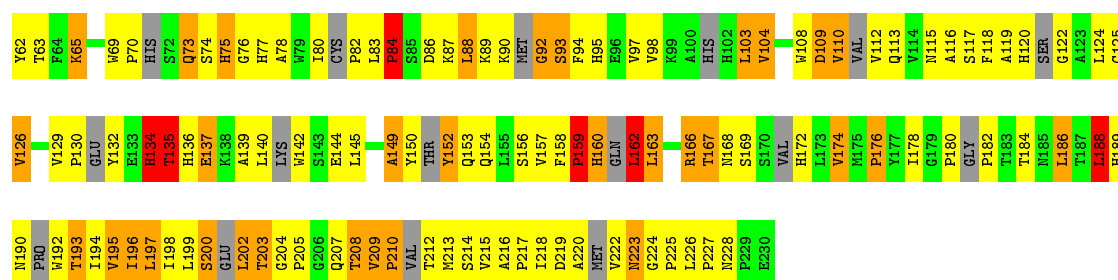


• Molecule 2: EQUINE RHINITIS A VIRUS



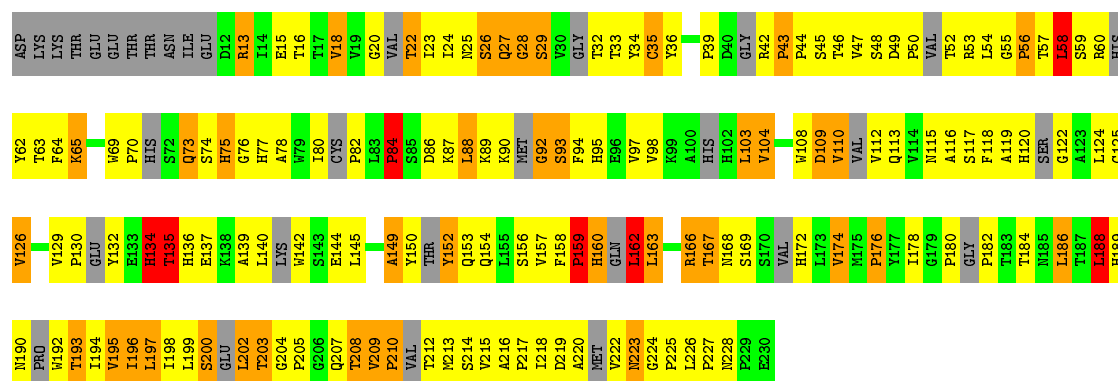
• Molecule 2: EQUINE RHINITIS A VIRUS





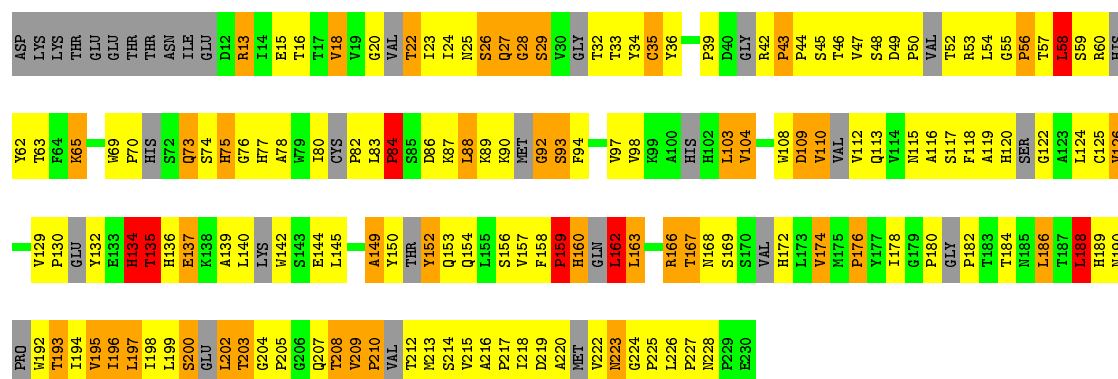
- Molecule 2: EQUINE RHINITIS A VIRUS

Chain CX: 20% 45% 18% • 14%



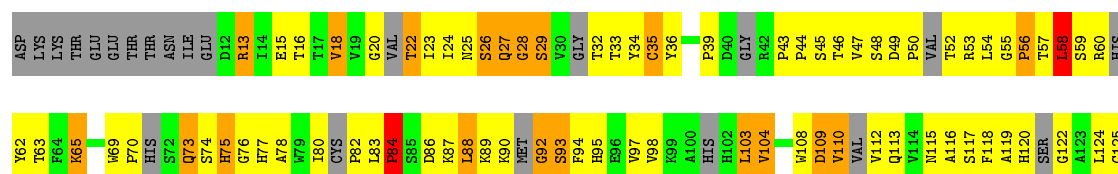
- Molecule 2: EQUINE RHINITIS A VIRUS

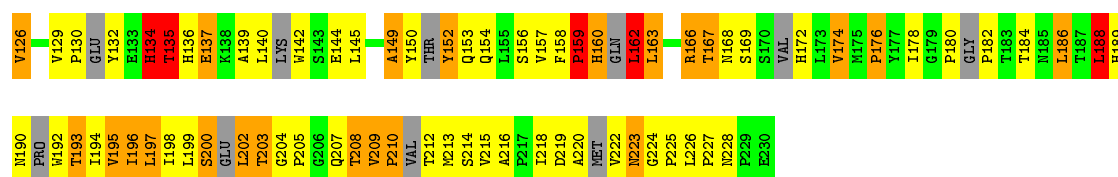
Chain CY: 20% 44% 18% • 14%



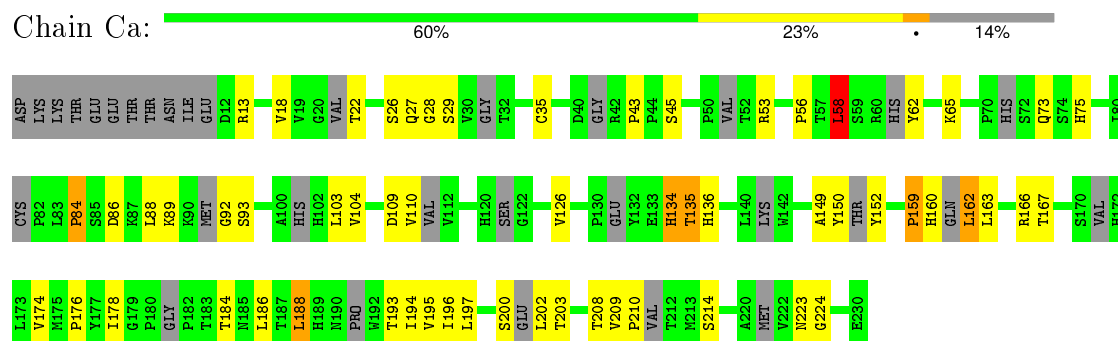
- Molecule 2: EQUINE RHINITIS A VIRUS

Chain CZ: 21% 44% 18% • 14%

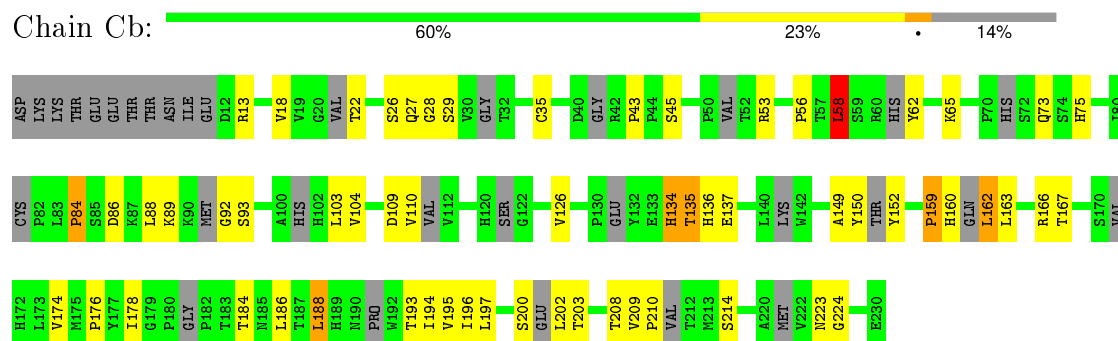




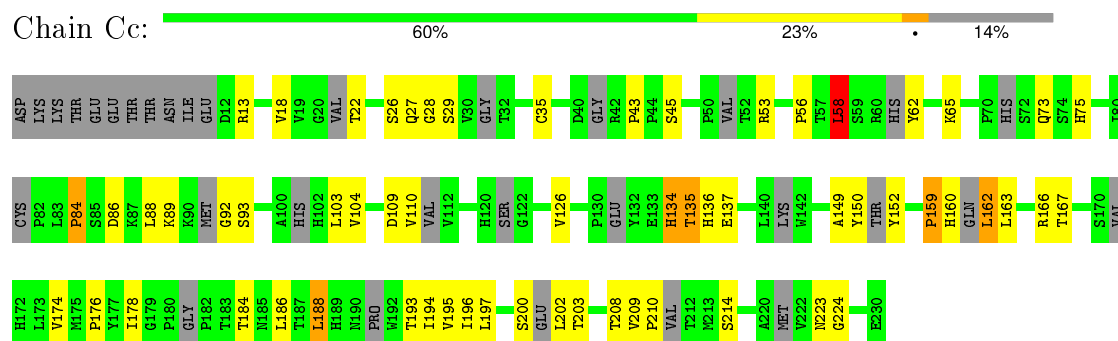
• Molecule 2: EQUINE RHINITIS A VIRUS



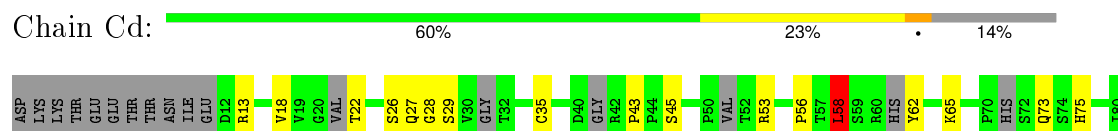
• Molecule 2: EQUINE RHINITIS A VIRUS

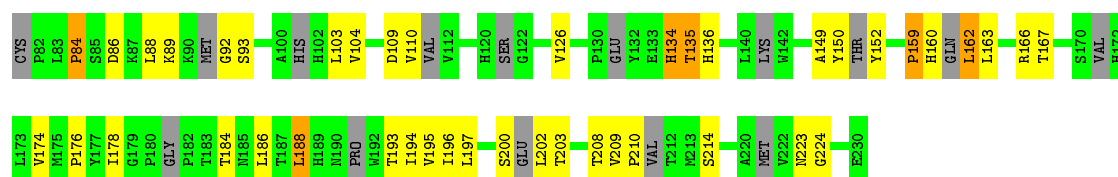


• Molecule 2: EQUINE RHINITIS A VIRUS



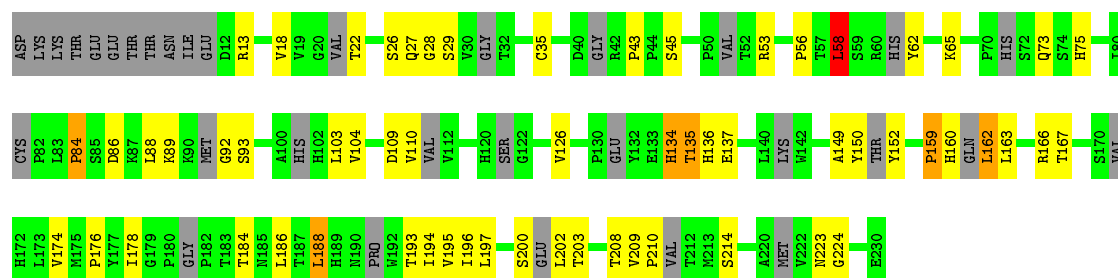
• Molecule 2: EQUINE RHINITIS A VIRUS





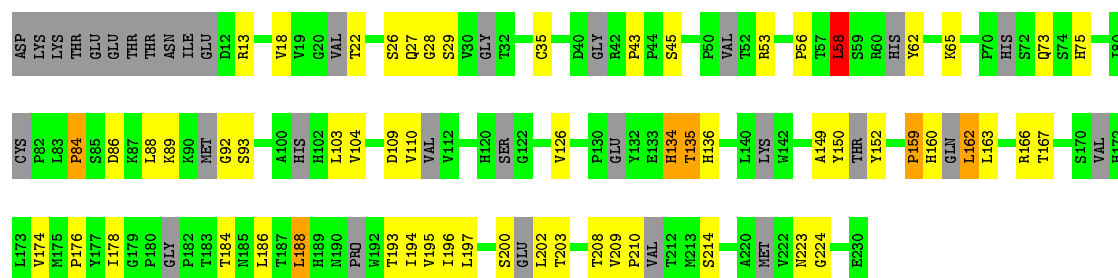
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain Ce: 60% 23% 14%



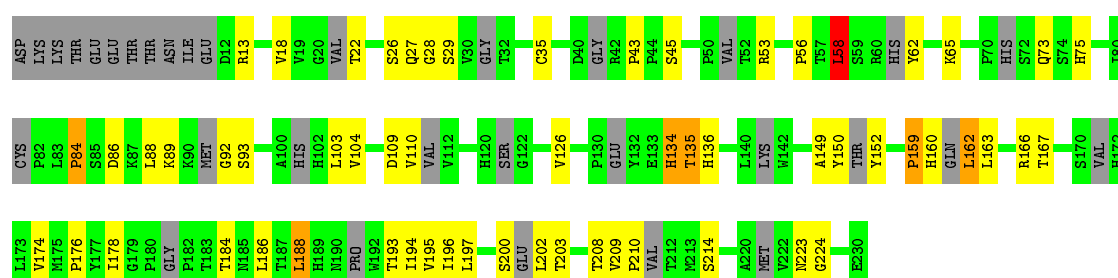
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain Cf: 60% 23% 14%



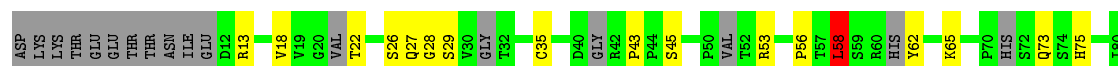
• Molecule 2: EQUINE RHINITIS A VIRUS

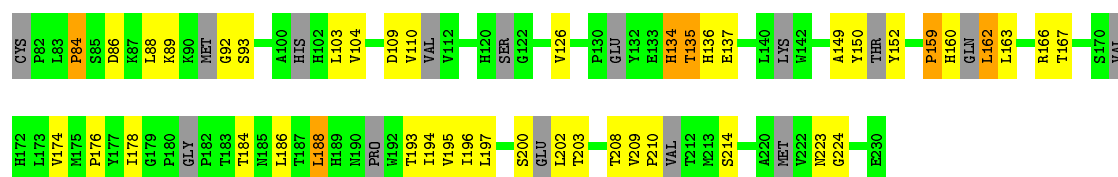
Chain Cg: 60% 23% 14%



• Molecule 2: EQUINE RHINITIS A VIRUS

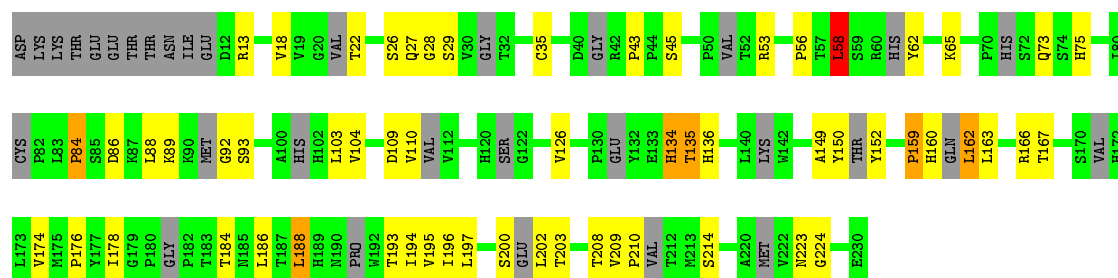
Chain Ch: 60% 23% 14%





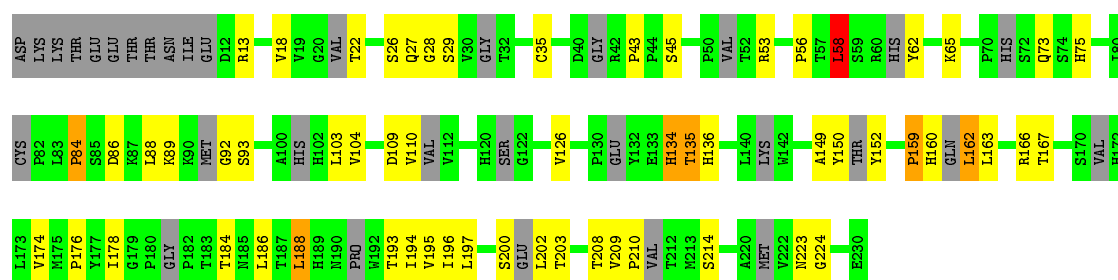
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain Ci: 60% 23% 14%



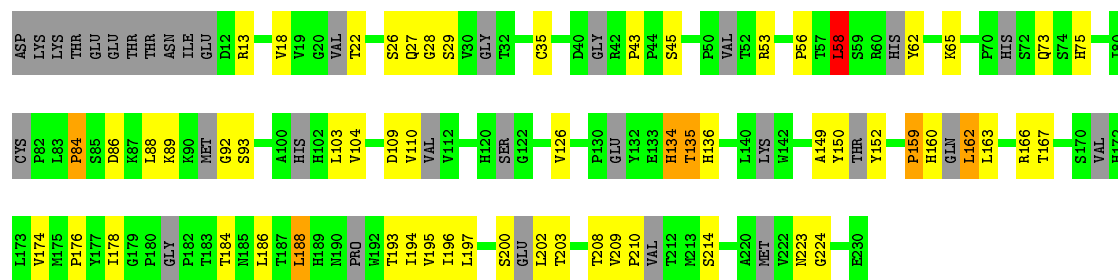
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain Cj: 60% 23% 14%



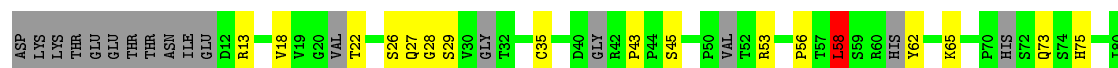
• Molecule 2: EQUINE RHINITIS A VIRUS

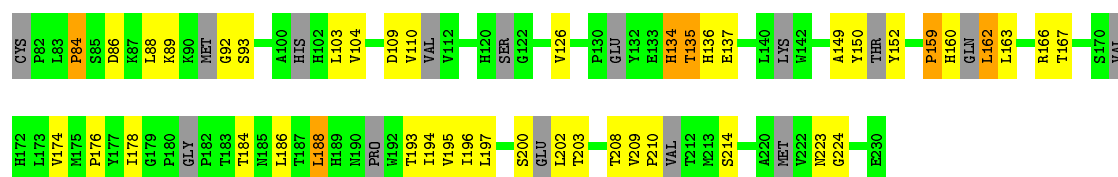
Chain Ck: 60% 23% 14%



• Molecule 2: EQUINE RHINITIS A VIRUS

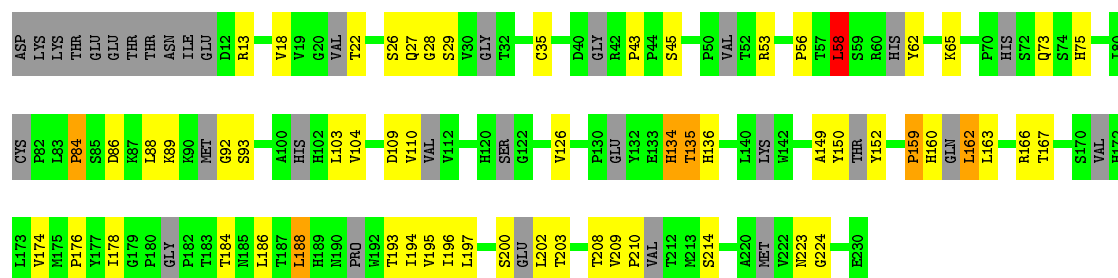
Chain Cl: 60% 23% 14%





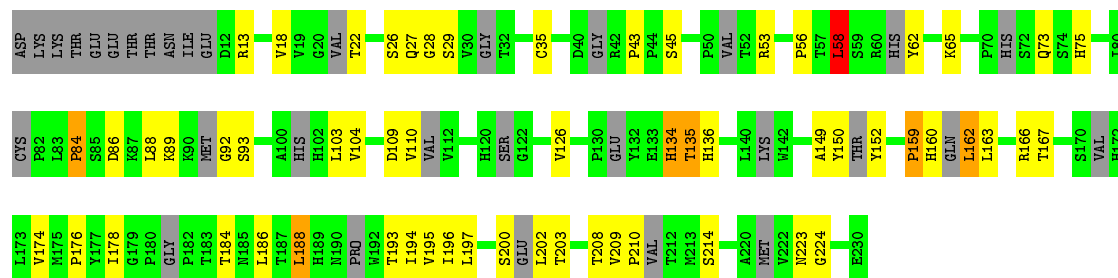
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain Cq: 60% 23% 14%



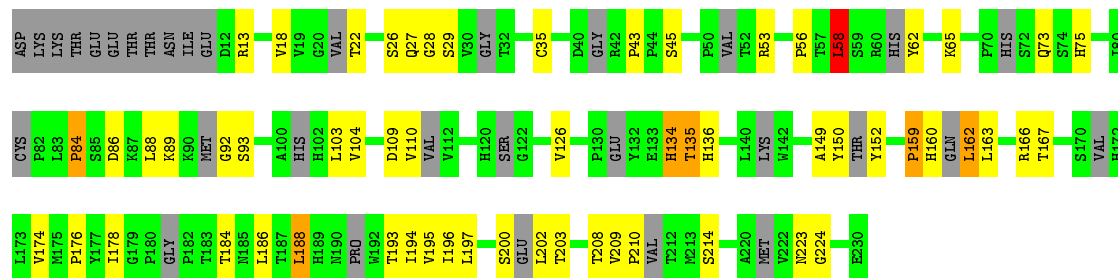
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain Cr: 60% 23% 14%



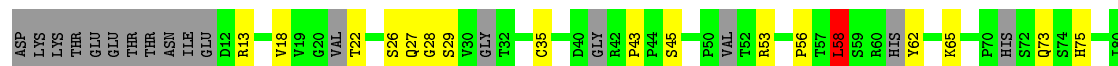
• Molecule 2: EQUINE RHINITIS A VIRUS

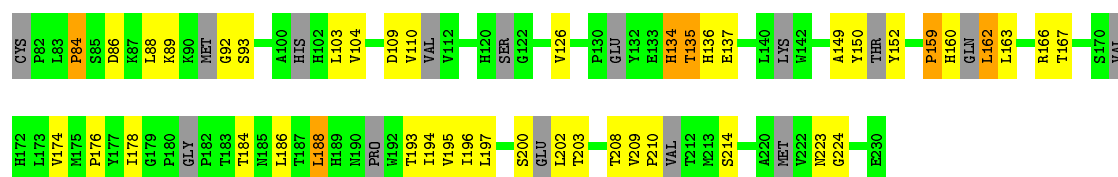
Chain Cs: 60% 23% 14%



• Molecule 2: EQUINE RHINITIS A VIRUS

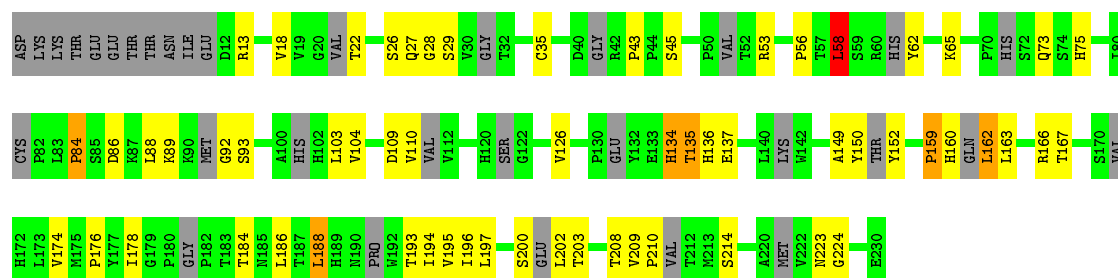
Chain Ct: 60% 23% 14%





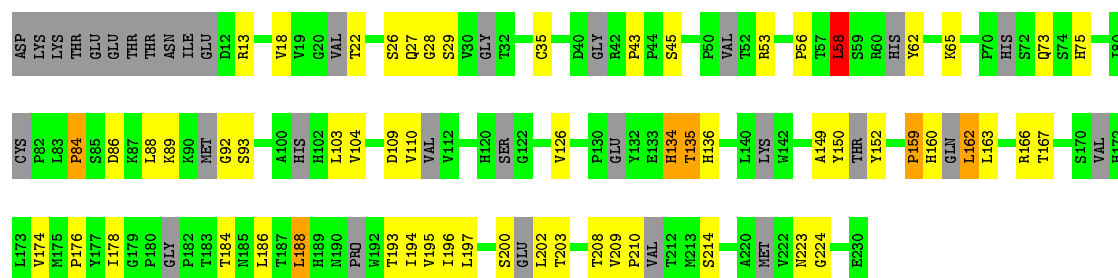
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain Cu: 60% 23% 14%



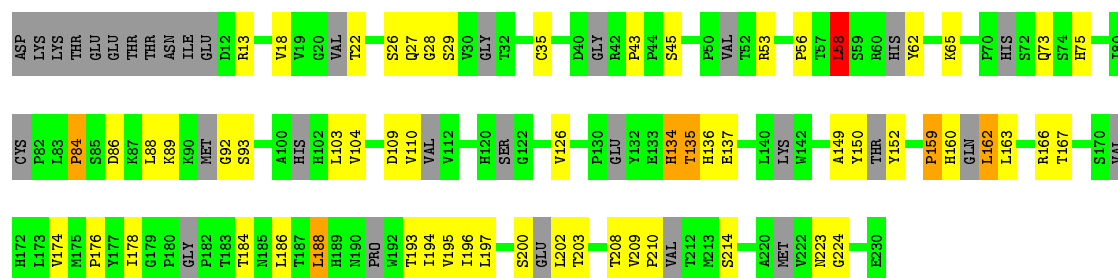
• Molecule 2: EQUINE RHINITIS A VIRUS

Chain Cv: 60% 23% 14%



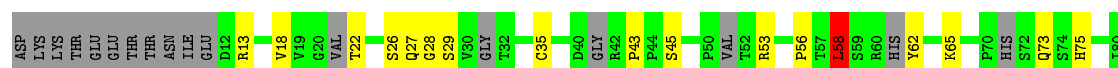
• Molecule 2: EQUINE RHINITIS A VIRUS

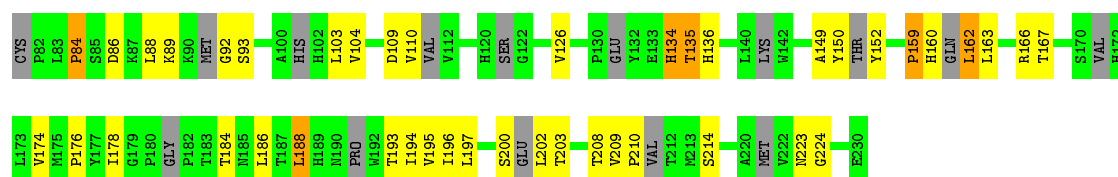
Chain Cw: 60% 23% 14%



• Molecule 2: EQUINE RHINITIS A VIRUS

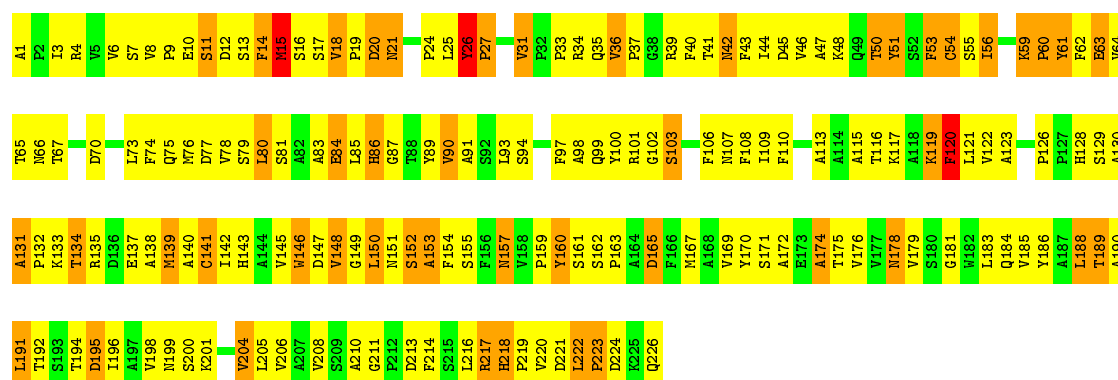
Chain Cx: 60% 23% 14%





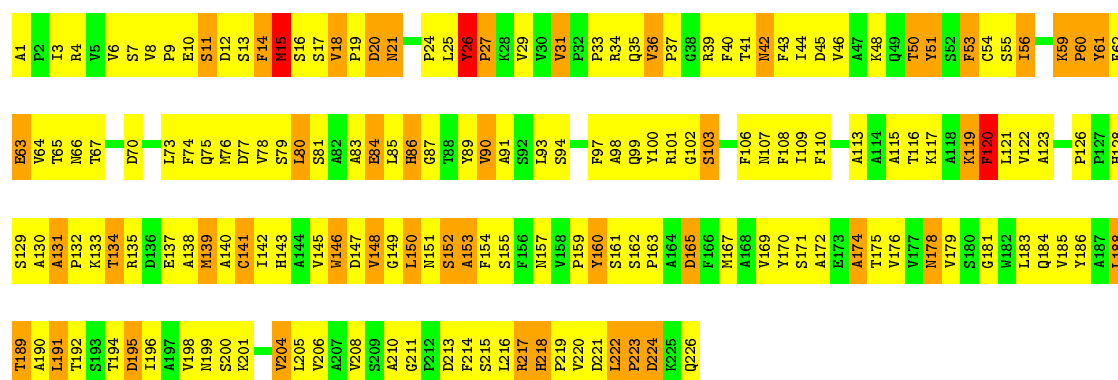
• Molecule 3: P1

Chain D0: 23% 55% 21%



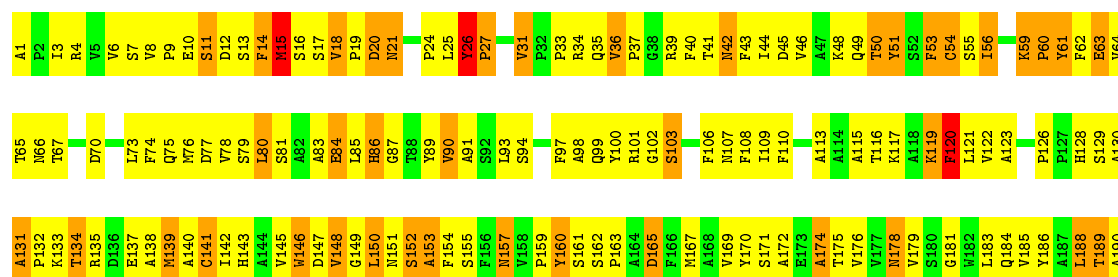
• Molecule 3: P1

Chain D1: 23% 56% 20%



• Molecule 3: P1

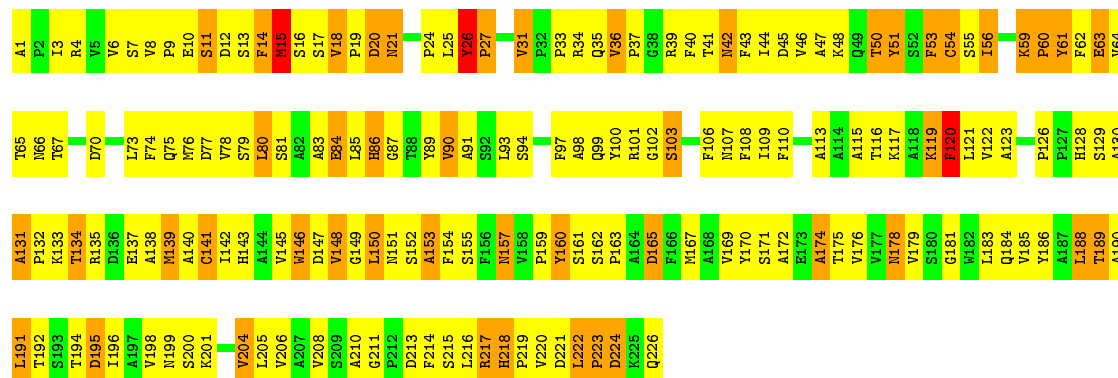
Chain D2: 23% 55% 21%





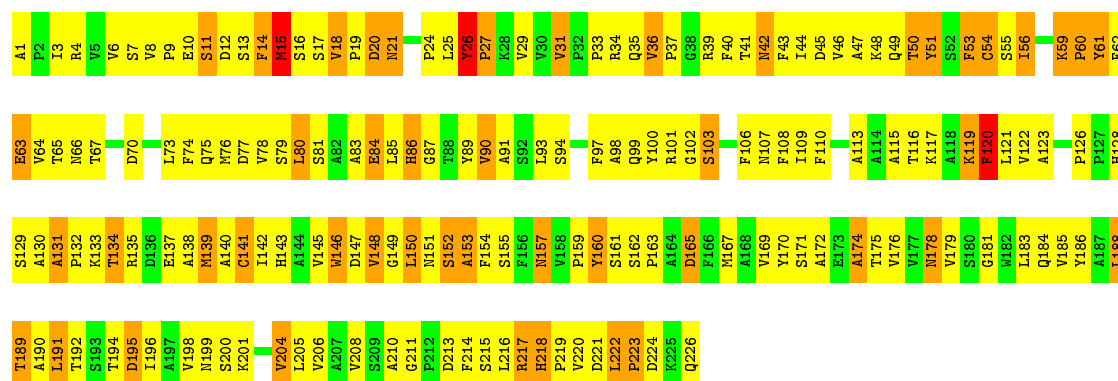
• Molecule 3: P1

Chain D3: 23% 55% 21%



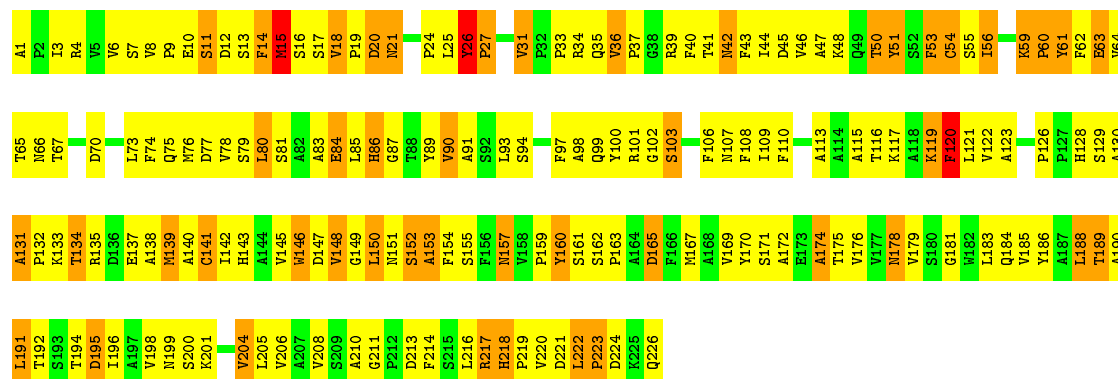
• Molecule 3: P1

Chain D4: 22% 56% 21%



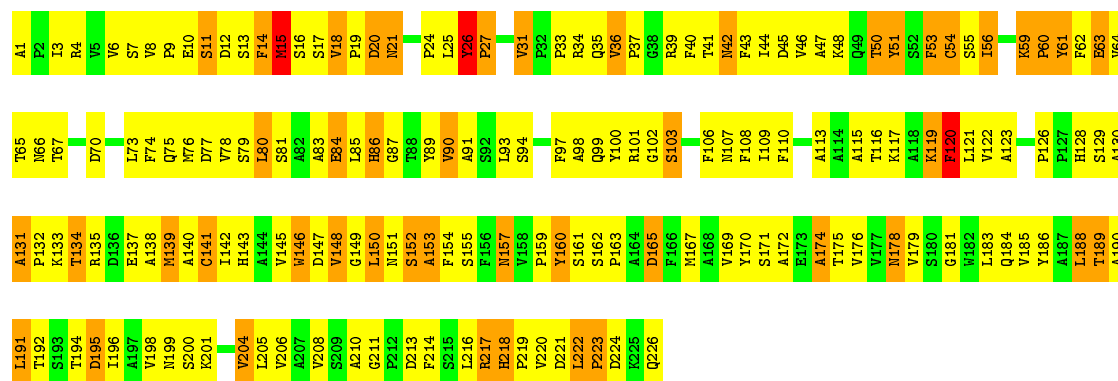
• Molecule 3: P1

Chain D5: 23% 55% 21%



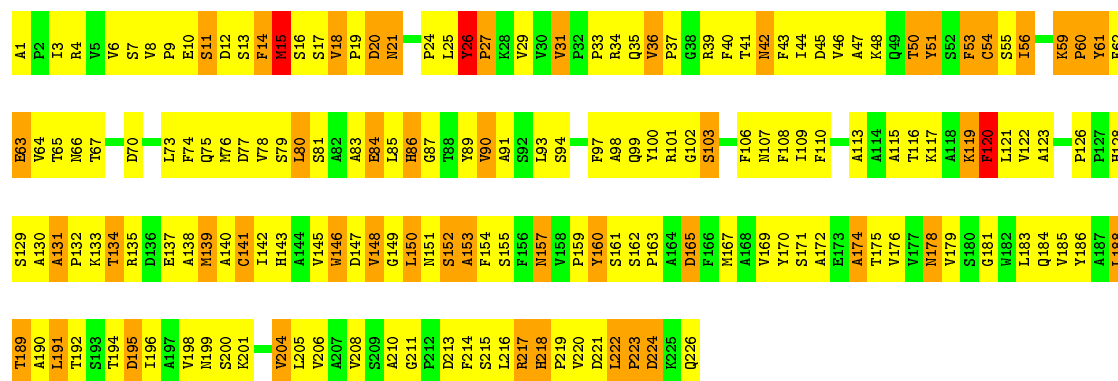
• Molecule 3: P1

Chain D6:  23% 55% 21%



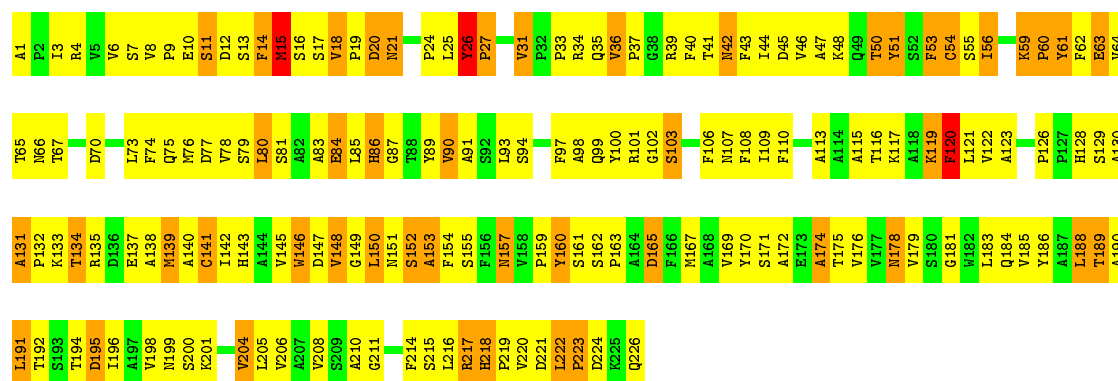
- Molecule 3: P1

Chain D7:  22% 55% 21%



- Molecule 3: P1

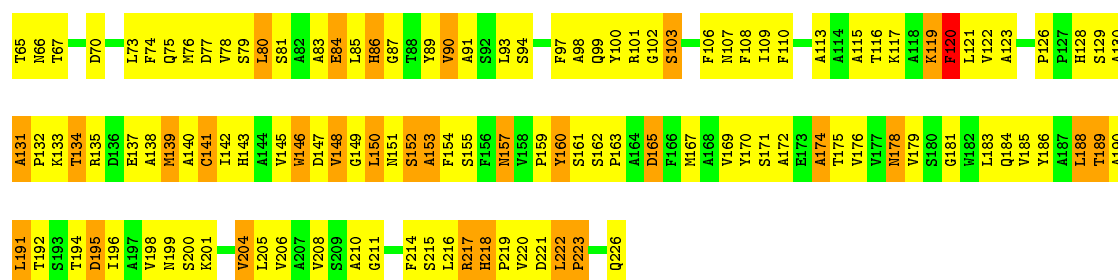
Chain D8: 



- Molecule 3: P1

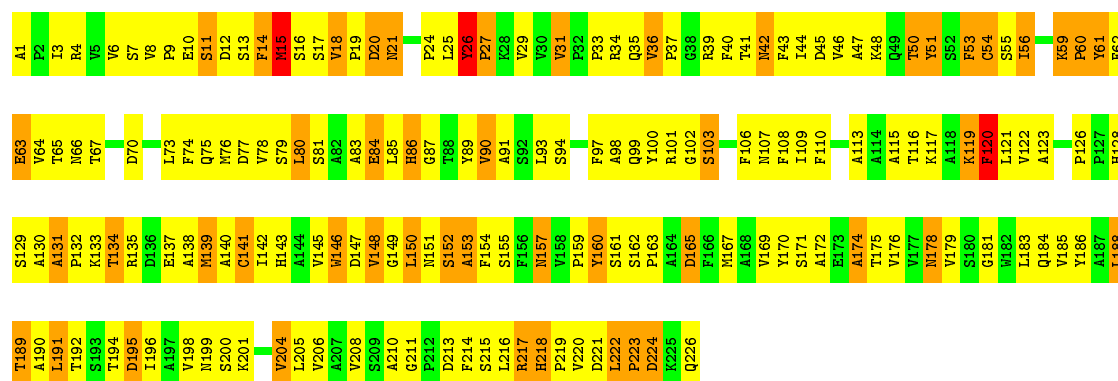
Chain D9:  23% 54% 21%





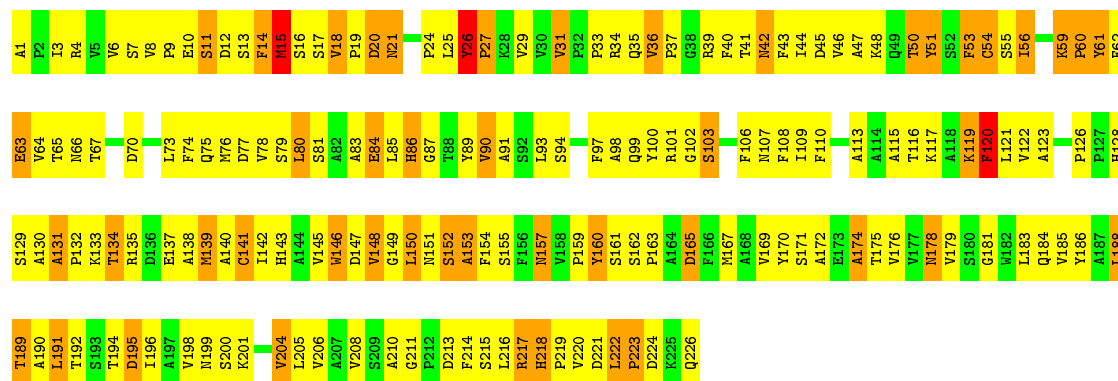
• Molecule 3: P1

Chain DA: 22% 55% 21%



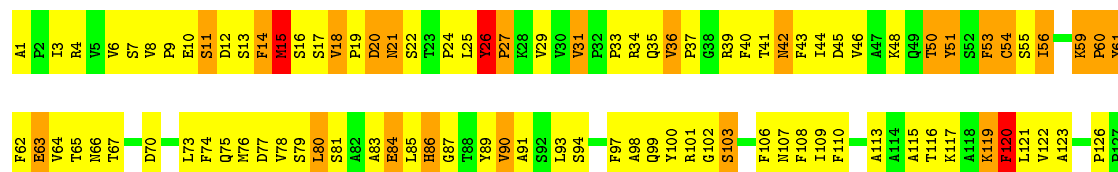
• Molecule 3: P1

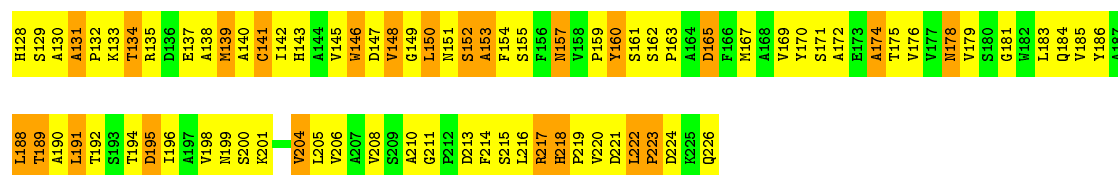
Chain DB: 22% 56% 21%



• Molecule 3: P1

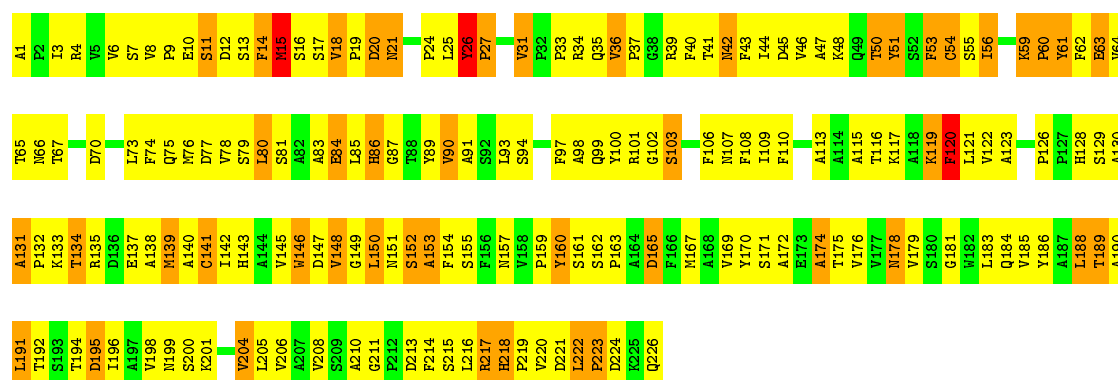
Chain DC: 22% 56% 21%





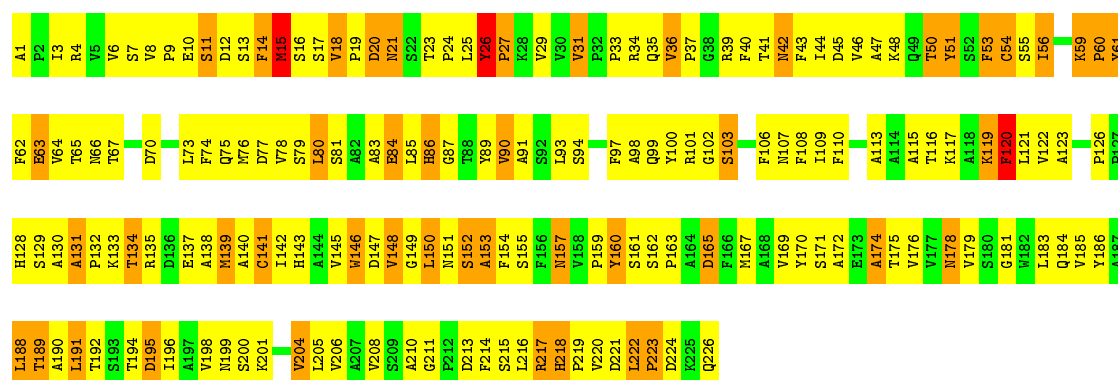
- Molecule 3: P1

Chain DD: 23% 56% 20%



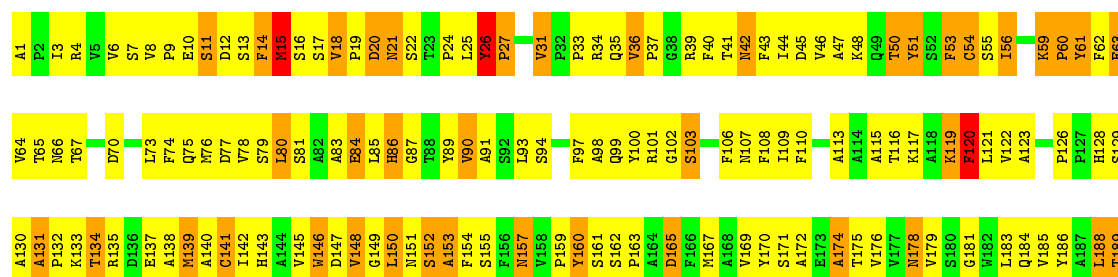
- Molecule 3: P1

Chain DE: 22% 56% 21%



- Molecule 3: P1

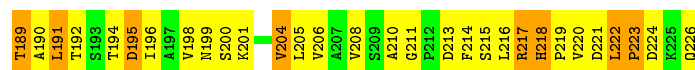
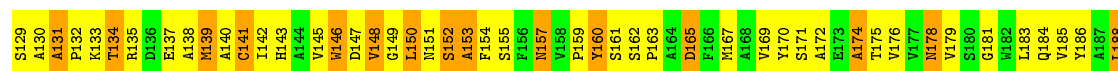
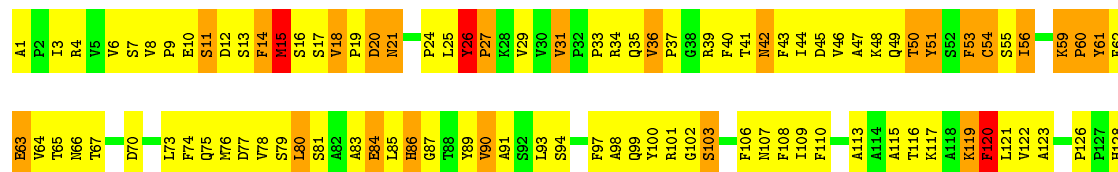
Chain DF: 22% 56% 21%





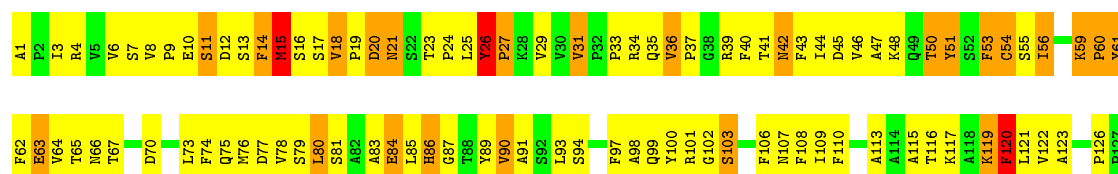
• Molecule 3: P1

Chain DG: 22% 56% 21%



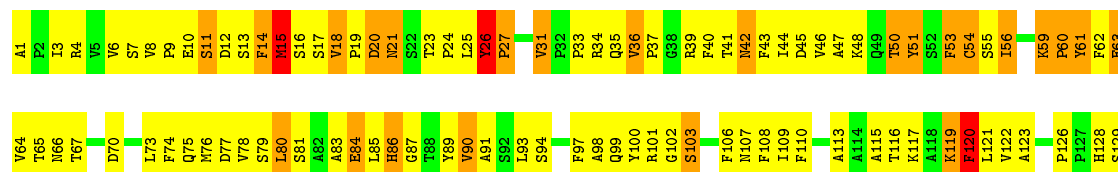
• Molecule 3: P1

Chain DH: 22% 56% 21%



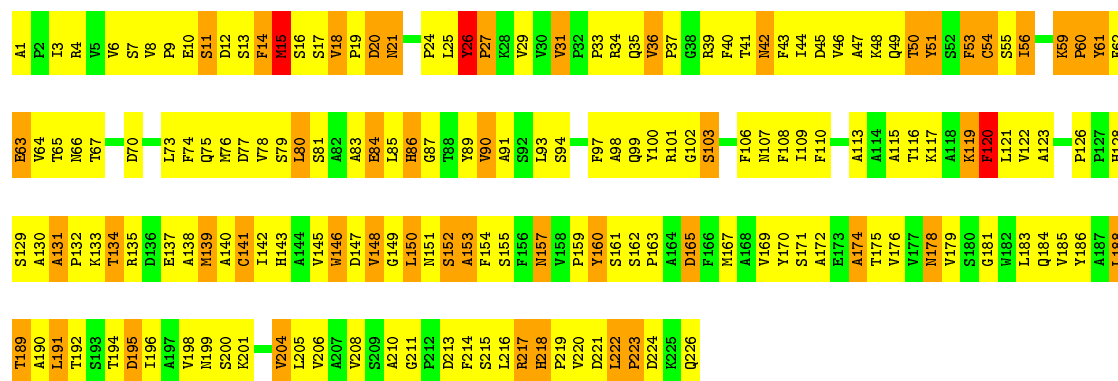
• Molecule 3: P1

Chain DI: 22% 56% 21%

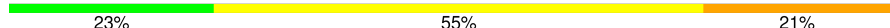


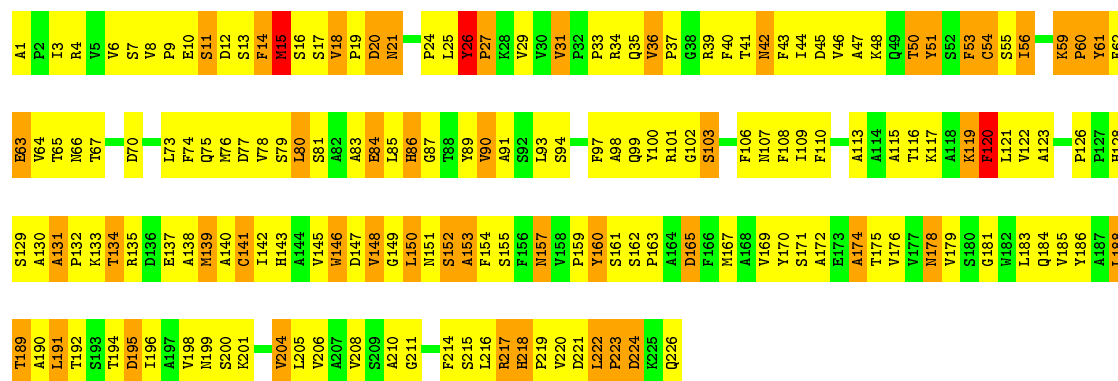
• Molecule 3: P1

Chain DJ:  22% 56% 21% .



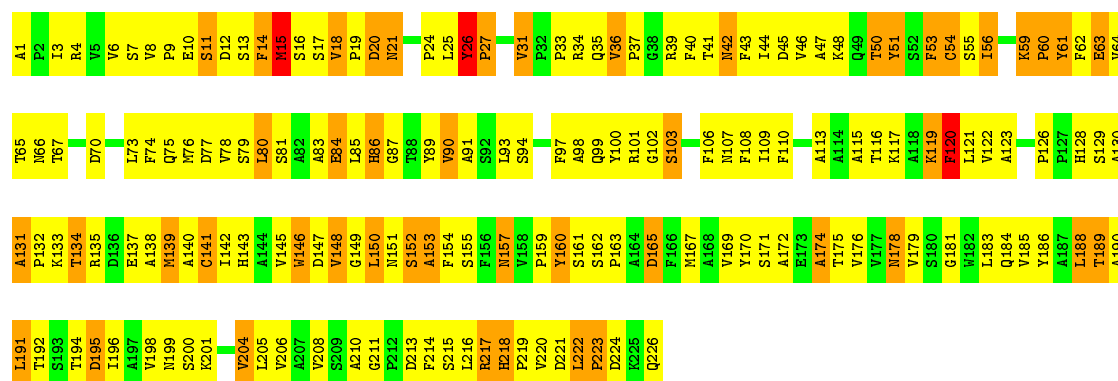
• Molecule 3: P1

Chain DK:  23% 55% 21% .



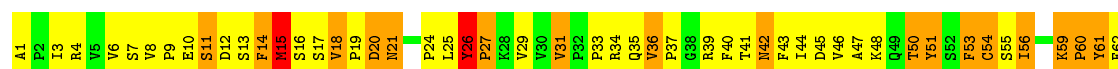
• Molecule 3: P1

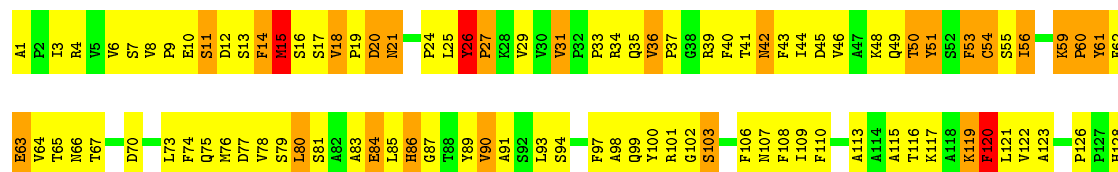
Chain DL:  23% 55% 21% .

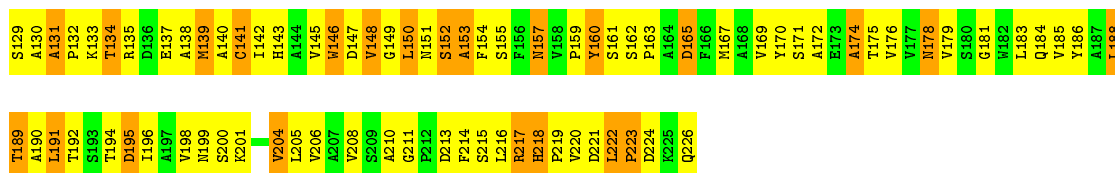


• Molecule 3: P1

Chain DM:  22% 56% 21% .

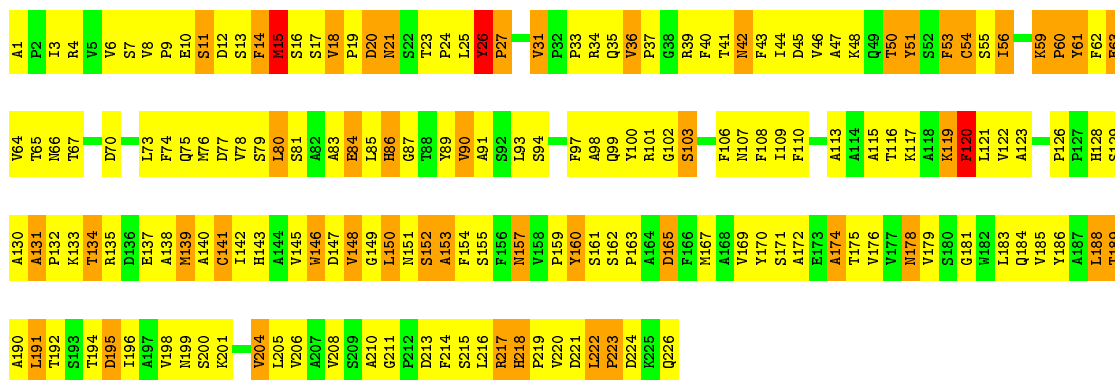






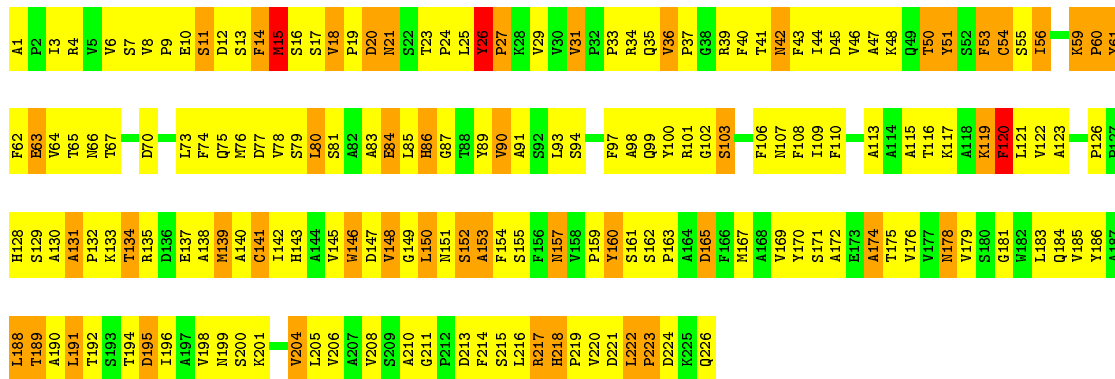
• Molecule 3: P1

Chain DQ: 22% 56% 21%



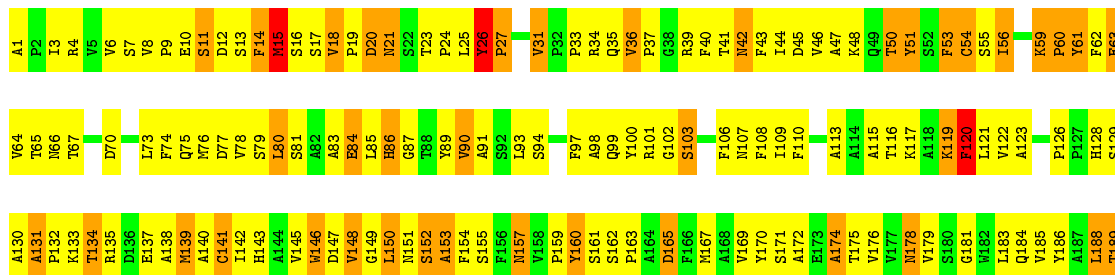
• Molecule 3: P1

Chain DR: 22% 56% 21%



• Molecule 3: P1

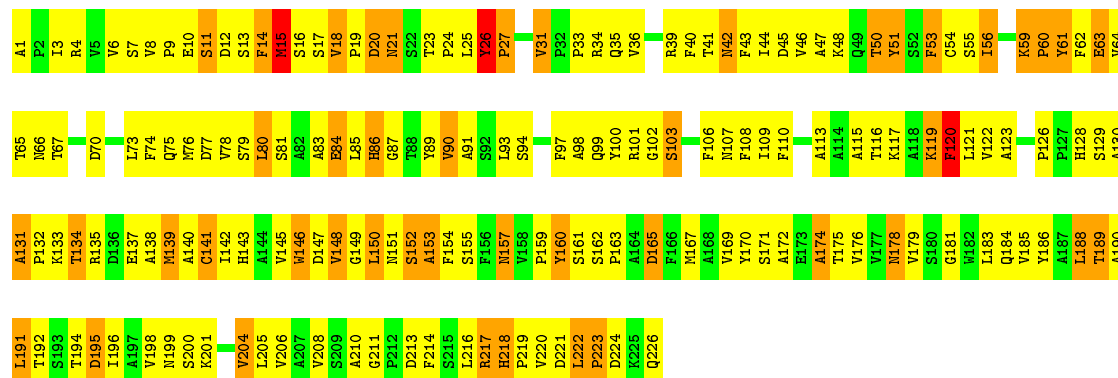
Chain DS: 22% 56% 21%





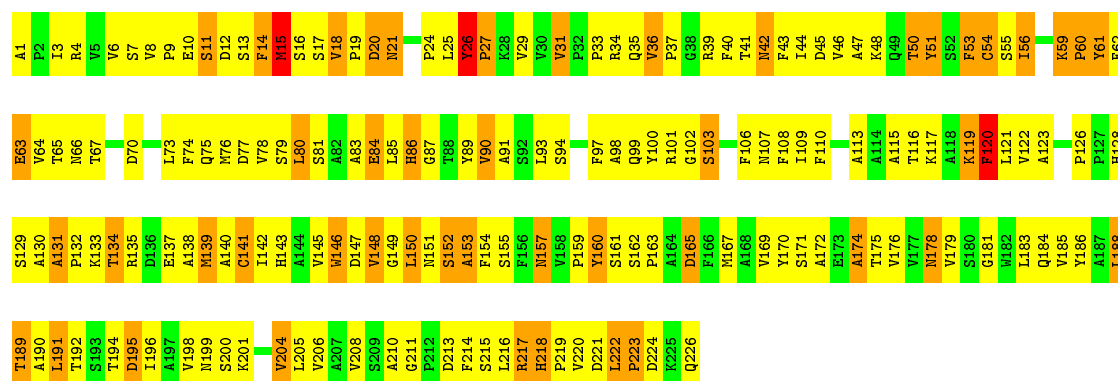
• Molecule 3: P1

Chain DT: 23% 56% 20%



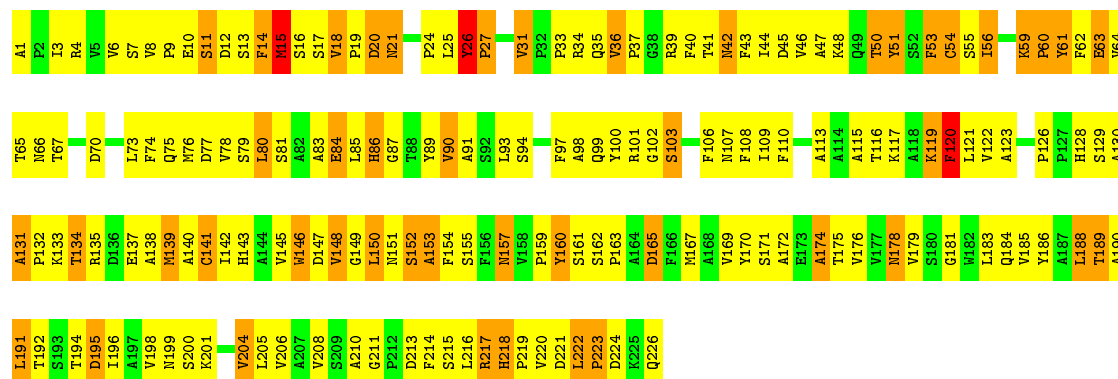
• Molecule 3: P1

Chain DU: 22% 56% 21%



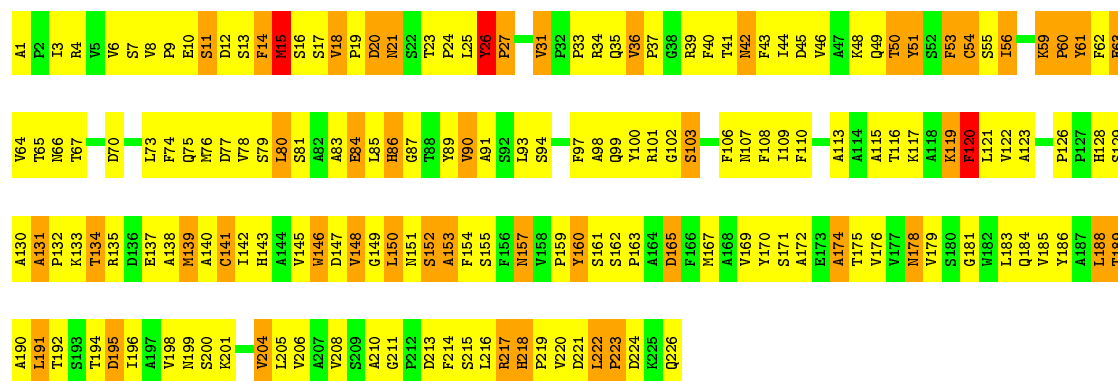
• Molecule 3: P1

Chain DV: 23% 55% 21%



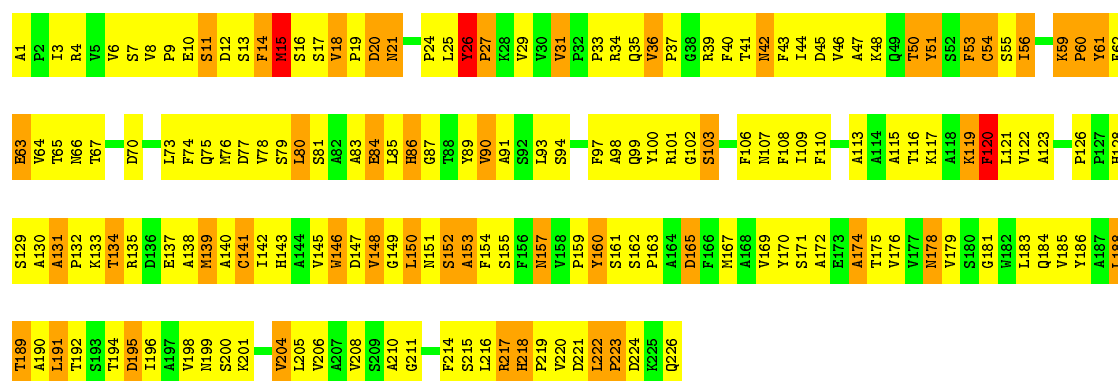
• Molecule 3: P1

Chain DW:  22% 56% 21%



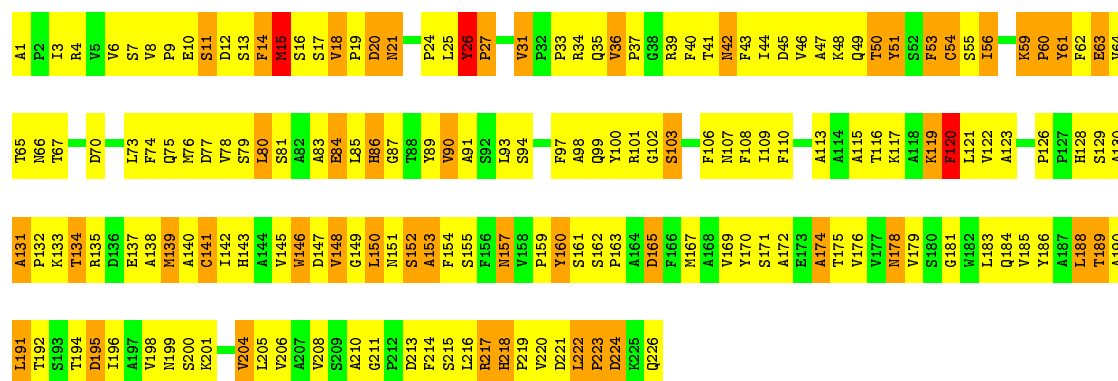
• Molecule 3: P1

Chain DX:  23% 55% 21%



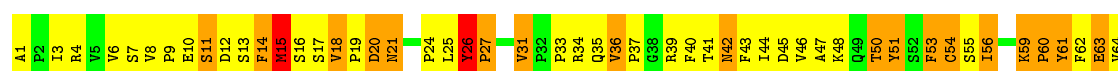
• Molecule 3: P1

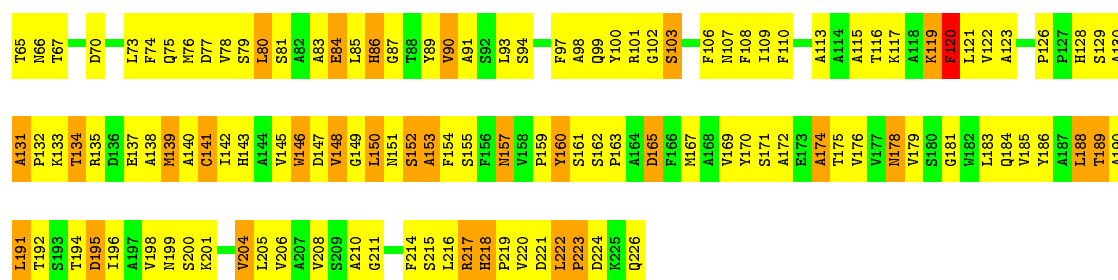
Chain DY:  22% 55% 21%



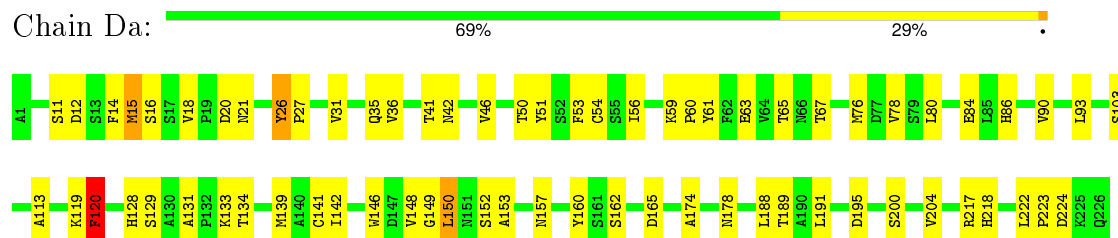
• Molecule 3: P1

Chain DZ:  23% 55% 21%

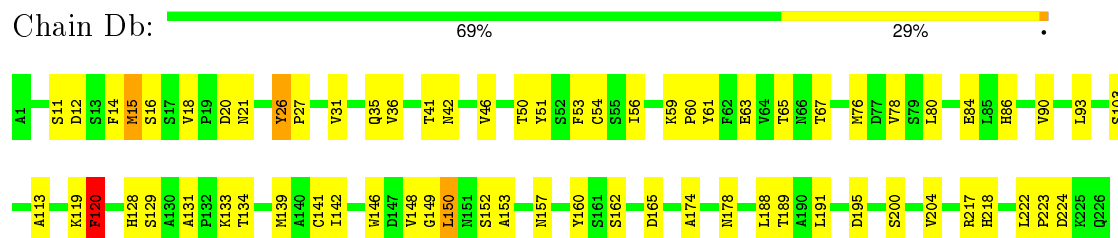




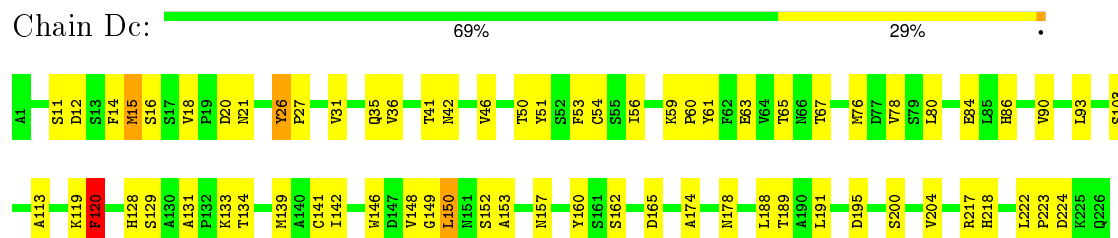
- Molecule 3: P1



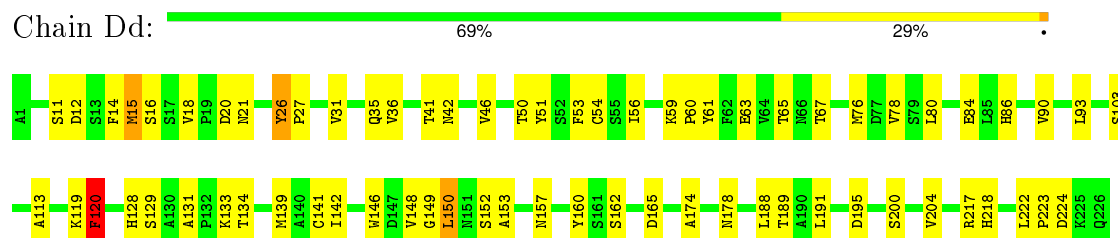
- Molecule 3: P1



- Molecule 3: P1

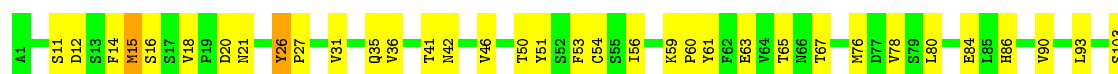


- Molecule 3: P1



- Molecule 3: P1





- Molecule 3: P1

Chain Df: 69% 29%



- Molecule 3: P1

Chain Dg: 69% 29%



- Molecule 3: P1

Chain Dh: 69% 29%



- Molecule 3: P1

Chain Di: 69% 29%



- Molecule 3: P1

Chain Dj: 70% 28%





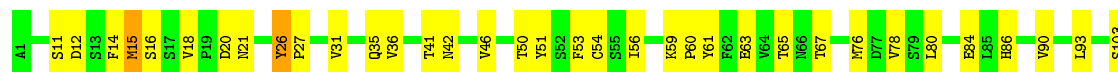
• Molecule 3: P1

Chain Dk: 69% 29%



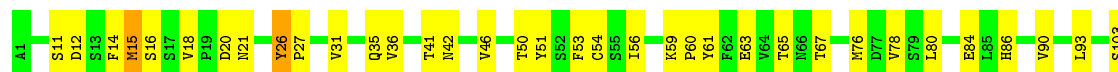
• Molecule 3: P1

Chain Dl: 69% 29%



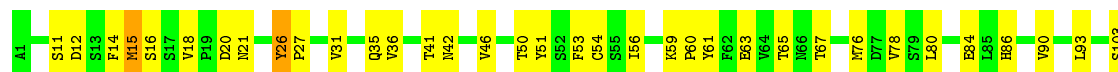
• Molecule 3: P1

Chain Dm: 69% 29%



• Molecule 3: P1

Chain Dn: 69% 29%



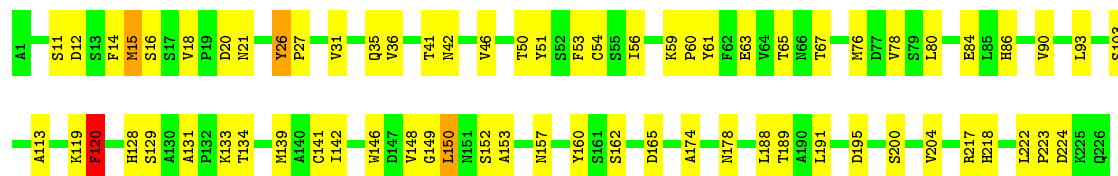
• Molecule 3: P1

Chain Do: 69% 29%



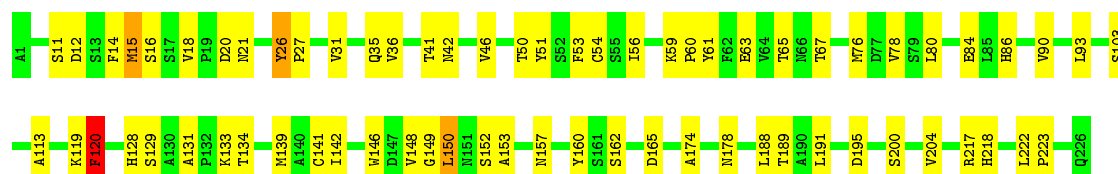
- Molecule 3: P1

Chain Dp: 



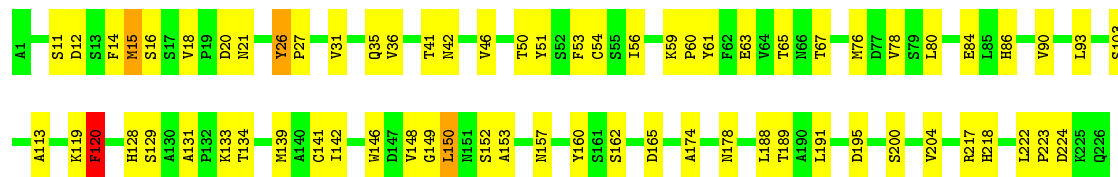
- Molecule 3: P1

Chain Dq: 



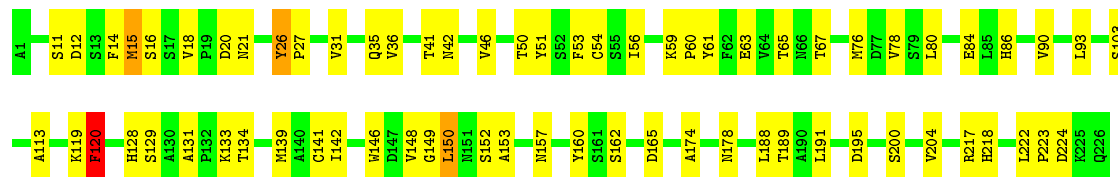
- Molecule 3: P1

Chain Dr: 



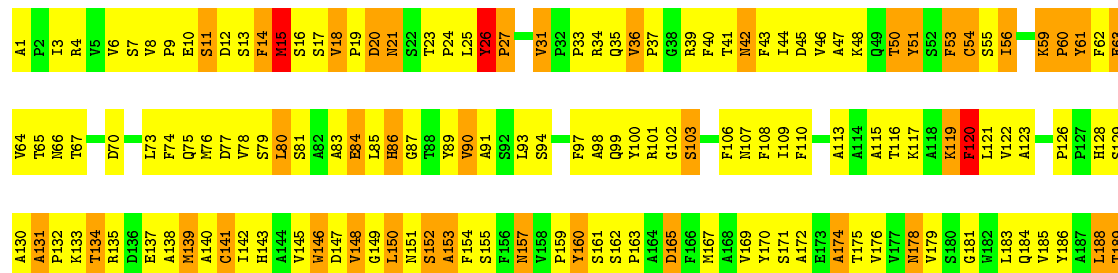
- Molecule 3: P1

Chain Ds: 



- Molecule 3: P1

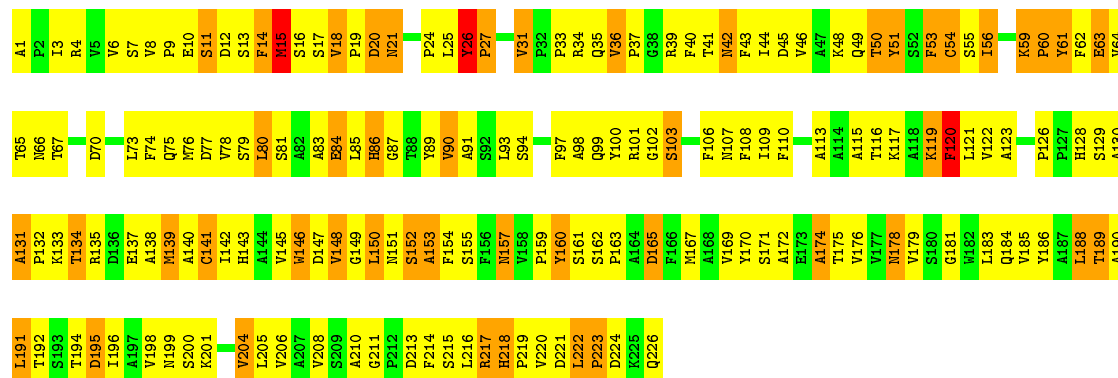
Chain EA: 





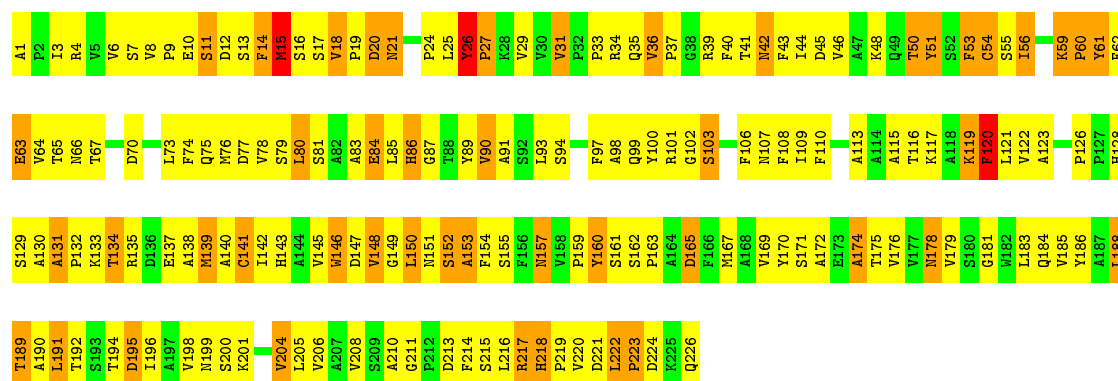
• Molecule 3: P1

Chain EB: 23% 55% 21%



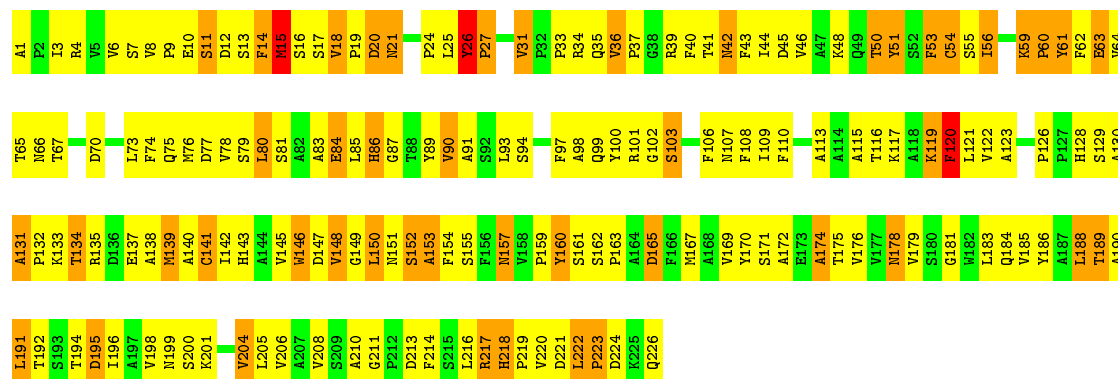
• Molecule 3: P1

Chain EC: 23% 55% 21%

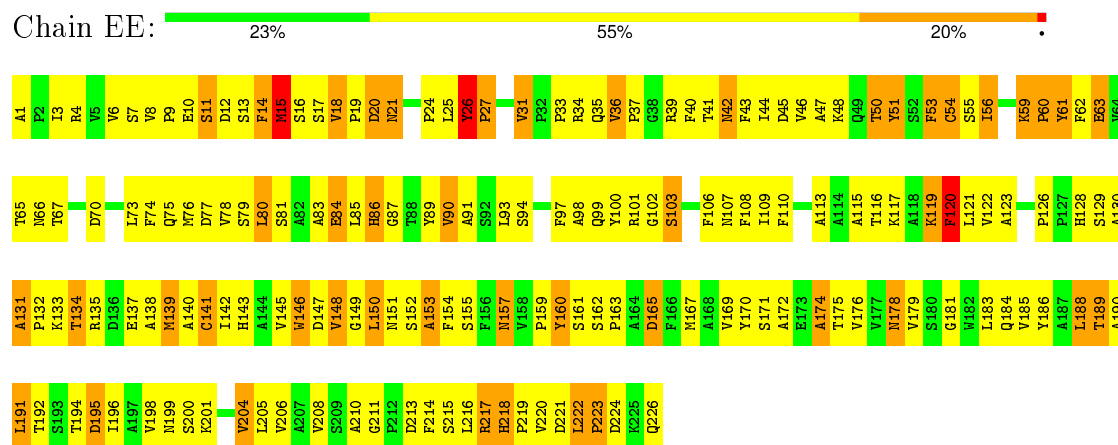


• Molecule 3: P1

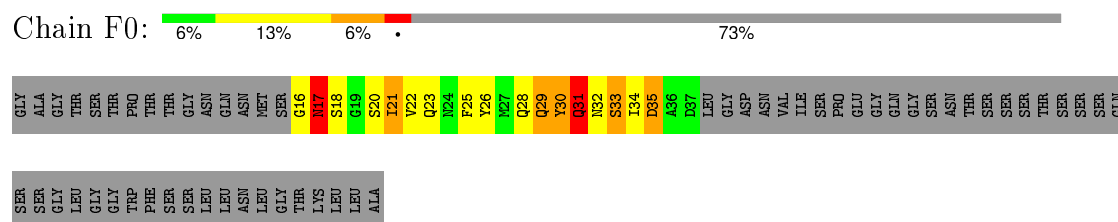
Chain ED: 23% 54% 21%



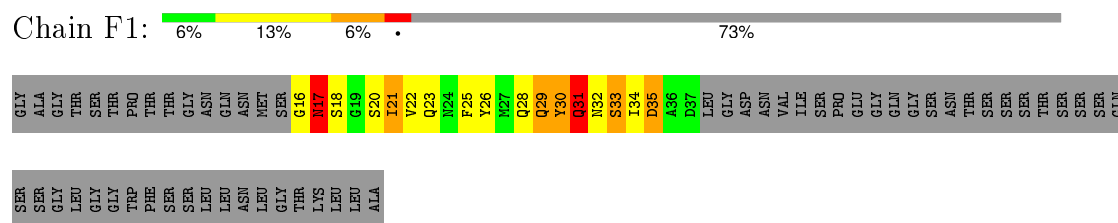
• Molecule 3: P1



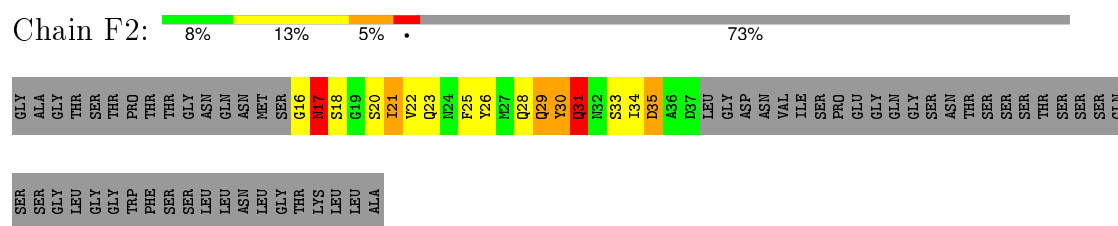
- Molecule 4: P1



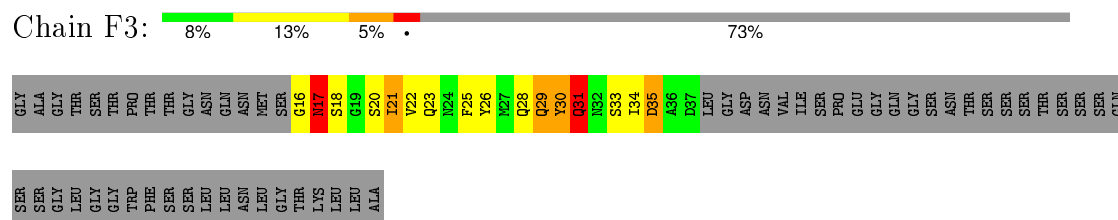
- Molecule 4: P1



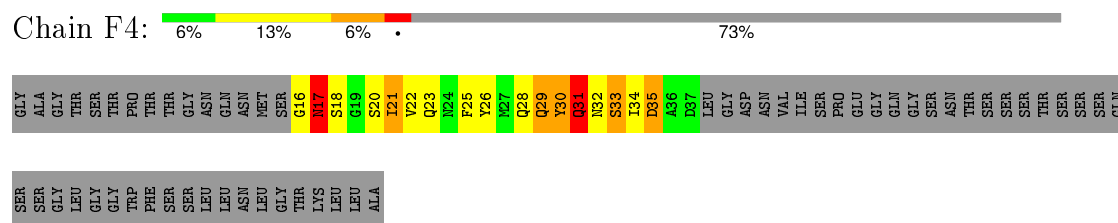
- Molecule 4: P1



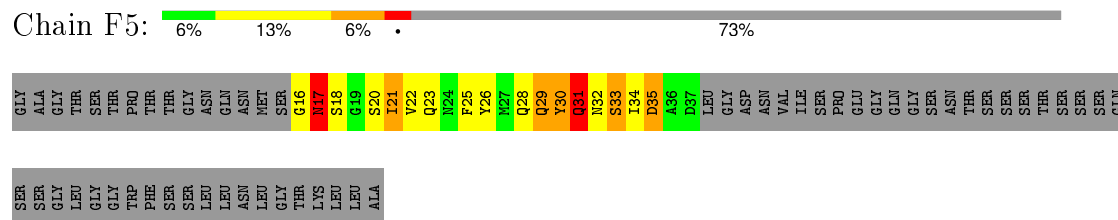
- Molecule 4: P1



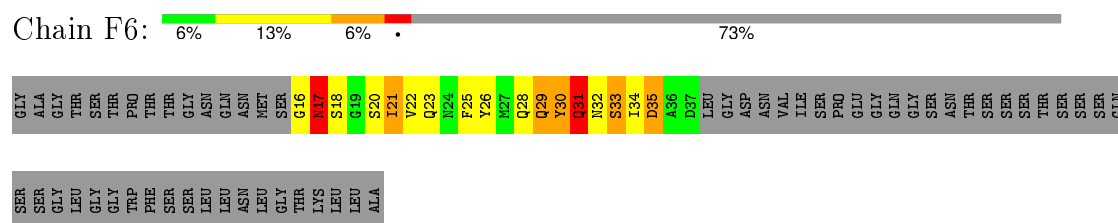
- Molecule 4: P1



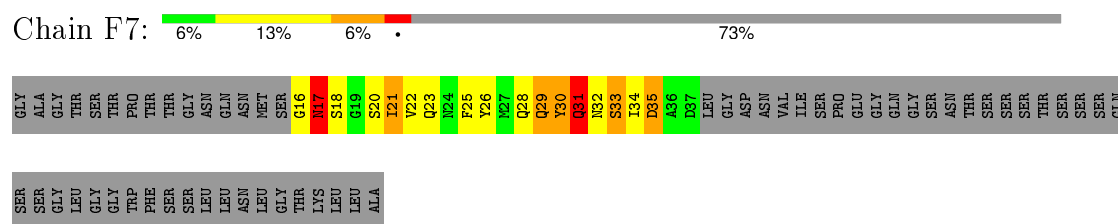
- Molecule 4: P1



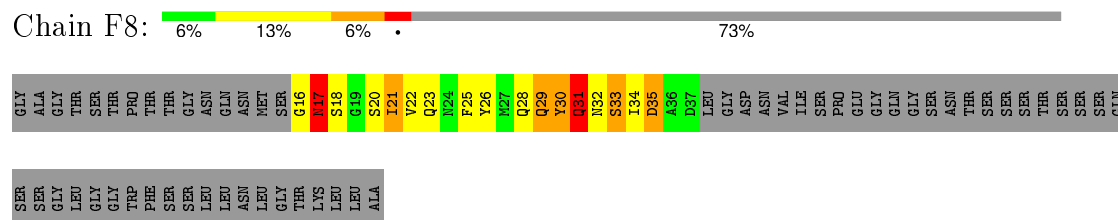
- Molecule 4: P1



- Molecule 4: P1

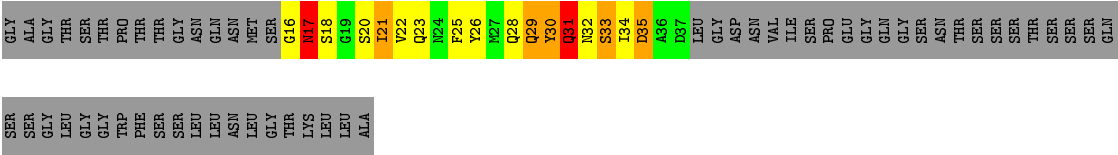


- Molecule 4: P1



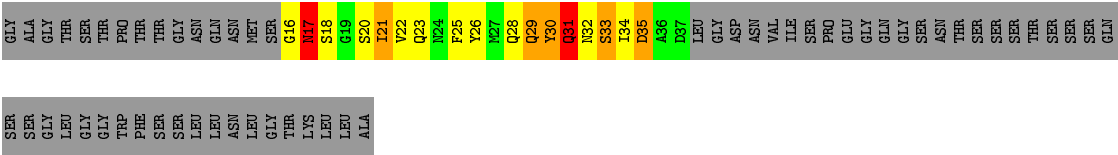
- Molecule 4: P1





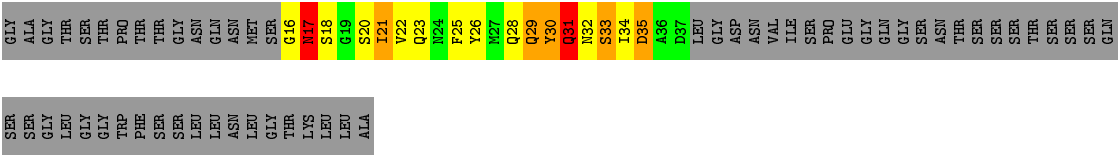
• Molecule 4: P1

Chain FA: 6% 13% 6% . 73%



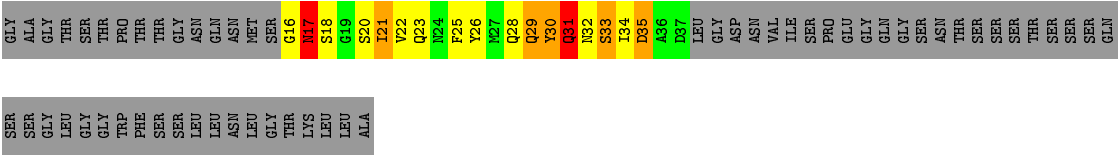
• Molecule 4: P1

Chain FB: 6% 13% 6% . 73%



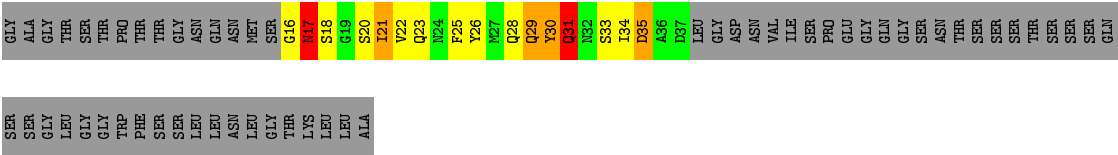
• Molecule 4: P1

Chain FC: 6% 13% 6% . 73%



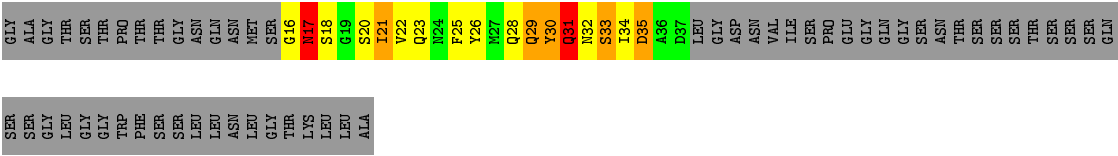
• Molecule 4: P1

Chain FD: 8% 13% 5% . 73%

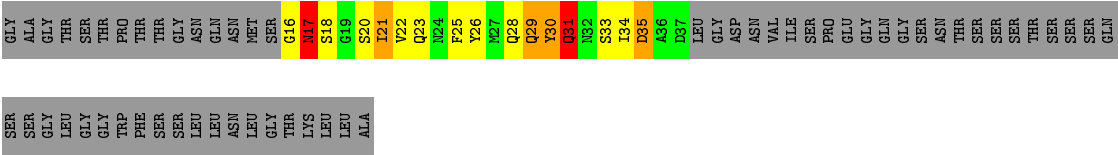


• Molecule 4: P1

Chain FE: 6% 13% 6% . 73%

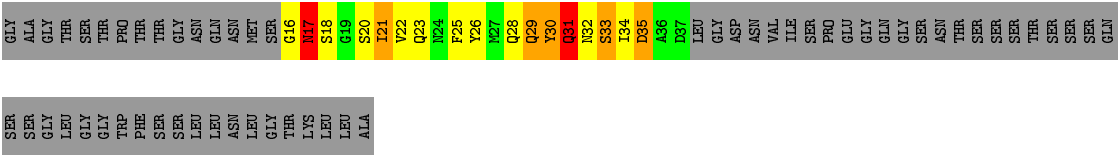


Chain FK: 8% 13% 5% 73%



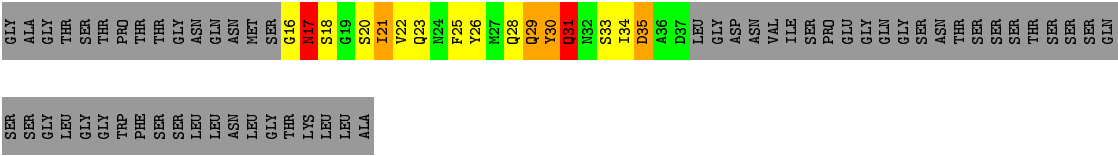
• Molecule 4: P1

Chain FL: 6% 13% 6% . 73%



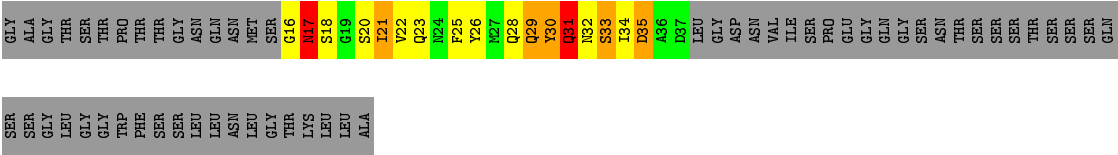
• Molecule 4: P1

Chain FM: 8% 13% 5% . 73%



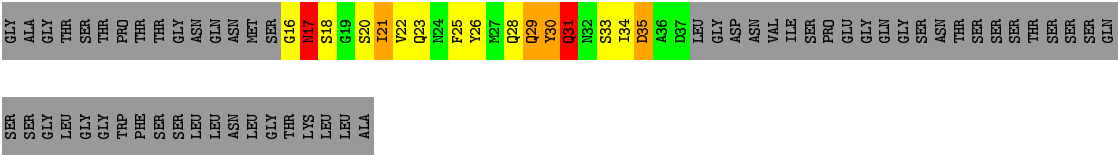
• Molecule 4: P1

Chain FN: 6% 13% 6% . 73%



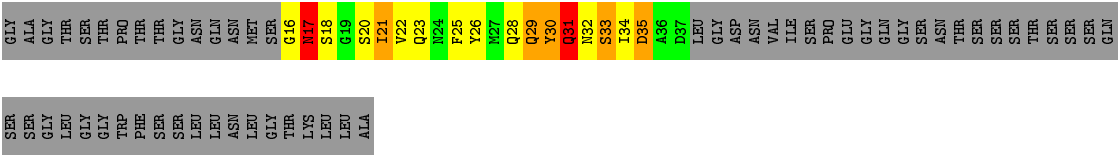
• Molecule 4: P1

Chain FO: 8% 13% 5% . 73%



• Molecule 4: P1

Chain FP: 6% 13% 6% . 73%



GLY	ALA	THR	THR	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	GLY	G16	N17	S18	G19	S20	I21	V22	Q23	N24	F25	Y26	P27	Q28	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	SER	ASN	THR	SER	SER	SER	THR	SER	SER	GLN
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SER	SER	GLY	LEU	GLY	GLY	TRP	PHE	SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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• Molecule 4: P1

Chain FW: 6% 13% 6% . 73%

GLY	ALA	THR	THR	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	GLY	G16	N17	S18	G19	S20	I21	V22	Q23	N24	F25	Y26	P27	Q28	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	SER	ASN	THR	SER	SER	SER	THR	SER	SER	GLN
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SER	SER	GLY	LEU	GLY	GLY	TRP	PHE	SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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• Molecule 4: P1

Chain FX: 6% 13% 6% . 73%

GLY	ALA	THR	THR	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	GLY	G16	N17	S18	G19	S20	I21	V22	Q23	N24	F25	Y26	P27	Q28	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	SER	ASN	THR	SER	SER	SER	THR	SER	SER	GLN
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SER	SER	GLY	LEU	GLY	GLY	TRP	PHE	SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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• Molecule 4: P1

Chain FY: 6% 13% 6% . 73%

GLY	ALA	THR	THR	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	GLY	G16	N17	S18	G19	S20	I21	V22	Q23	N24	F25	Y26	P27	Q28	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	SER	ASN	THR	SER	SER	SER	THR	SER	SER	GLN
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SER	SER	GLY	LEU	GLY	GLY	TRP	PHE	SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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• Molecule 4: P1

Chain FZ: 8% 13% 5% . 73%

GLY	ALA	THR	THR	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	GLY	G16	N17	S18	G19	S20	I21	V22	Q23	N24	F25	Y26	P27	Q28	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	SER	ASN	THR	SER	SER	SER	THR	SER	SER	GLN
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SER	SER	GLY	LEU	GLY	GLY	TRP	PHE	SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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• Molecule 4: P1

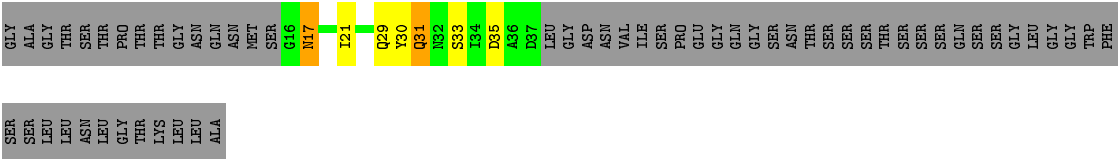
Chain Fa: 19% 6% . 73%

GLY	ALA	THR	THR	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	GLY	G16	N17	I21	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	SER	PRO	GLU	GLY	GLN	GLY	GLY	ASN	SER	SER	SER	THR	SER	SER	GLN	SER	SER	GLY	GLY	TRP	PHE
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SER	SER	LEU	LEU	ASN	LEU	GLY	LYS	LEU	LEU	LEU	ALA
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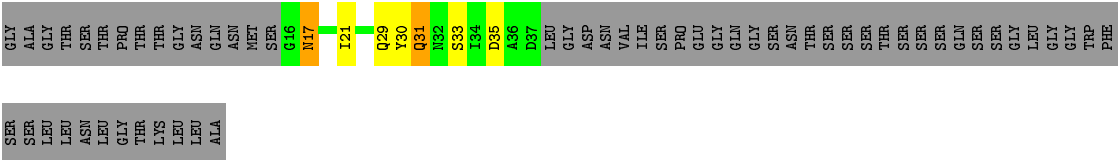
• Molecule 4: P1

Chain Fb: 19% 6% 73%



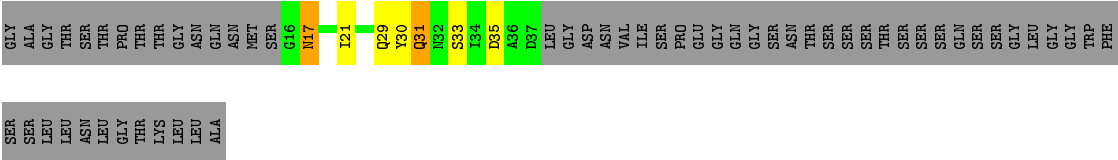
• Molecule 4: P1

Chain Fc: 19% 6% 73%



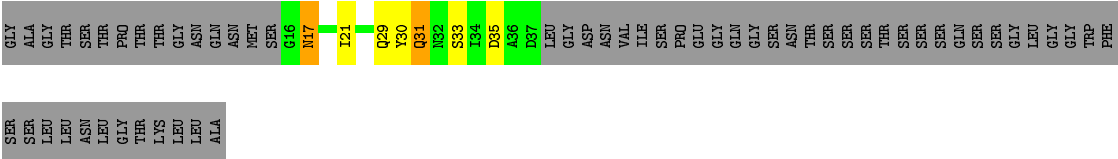
• Molecule 4: P1

Chain Fd: 19% 6% 73%



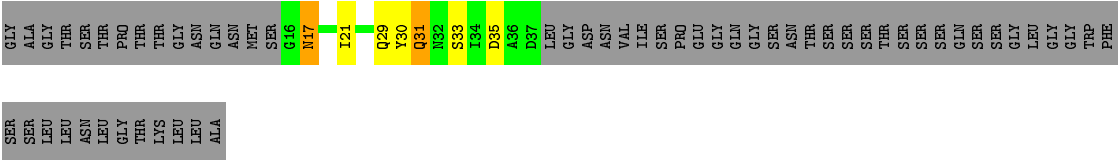
• Molecule 4: P1

Chain Fe: 19% 6% 73%



• Molecule 4: P1

Chain Ff: 19% 6% 73%

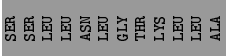


• Molecule 4: P1

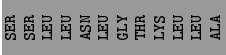
Chain Fg: 19% 6% 73%



• Molecule 4: P1



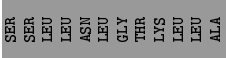
• Molecule 4: P1



• Molecule 4: P1



• Molecule 4: P1



• Molecule 4: P1



Chain Fr:  19% 6% • 73%

GLY	ALA	GLY	THR	SER	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	SER	G16	N17	I21	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	GLY	ASN	THR	SER	SER	SER	SER	SER	GLN	SER	SER	GLY	LEU	GLY	TRP	PHE
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SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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• Molecule 4: P1

Chain Fs:  19% 6% • 73%

GLY	ALA	GLY	THR	SER	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	SER	G16	N17	I21	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	GLY	ASN	THR	SER	SER	SER	SER	SER	GLN	SER	SER	GLY	LEU	GLY	TRP	PHE
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SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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• Molecule 4: P1

Chain Ft:  19% 6% • 73%

GLY	ALA	GLY	THR	SER	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	SER	G16	N17	I21	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	GLY	ASN	THR	SER	SER	SER	SER	SER	GLN	SER	SER	GLY	LEU	GLY	TRP	PHE
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SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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• Molecule 4: P1

Chain Fu:  19% 6% • 73%

GLY	ALA	GLY	THR	SER	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	SER	G16	N17	I21	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	GLY	ASN	THR	SER	SER	SER	SER	SER	GLN	SER	SER	GLY	LEU	GLY	TRP	PHE
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SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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• Molecule 4: P1

Chain Fv:  19% 6% • 73%

GLY	ALA	GLY	THR	SER	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	SER	G16	N17	I21	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	GLY	ASN	THR	SER	SER	SER	SER	SER	GLN	SER	SER	GLY	LEU	GLY	TRP	PHE
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SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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• Molecule 4: P1

Chain Fw:  19% 6% • 73%

GLY	SER	ALA	GLY	THR	SER	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	SER	G16	N17	I21	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	GLY	ASN	THR	SER	SER	SER	SER	SER	SER	GLN	SER	SER	GLY	LEU	GLY	TRP	PHE
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SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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● Molecule 4: P1



GLY	ALA	GLY	THR	SER	THR	PRO	THR	THR	GLY	ASN	GLN	ASN	MET	SER	G16	N17	I21	Q29	Y30	Q31	N32	S33	I34	D35	A36	D37	LEU	GLY	ASP	ASN	VAL	ILE	SER	PRO	GLU	GLY	GLN	GLY	ASN	THR	SER	SER	SER	SER	SER	SER	GLN	SER	SER	GLY	LEU	GLY	TRP	PHE
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SER	SER	LEU	LEU	ASN	LEU	GLY	THR	LYS	LEU	LEU	ALA
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4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	Not provided	Depositor
Resolution determination method	Not provided	Depositor
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	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	GATAN US4000SP	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	$\# Z > 2$	RMSZ	$\# Z > 2$
1	A0	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	A1	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	A2	0.84	1/1993 (0.1%)	1.07	5/2721 (0.2%)
1	A3	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	A4	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	A5	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	A6	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	A7	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	A8	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	A9	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AA	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AB	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AC	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AD	0.84	1/1993 (0.1%)	1.07	5/2721 (0.2%)
1	AE	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	AF	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AG	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AH	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	AI	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AJ	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AK	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AL	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AM	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	AN	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AO	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	AP	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AQ	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AR	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AS	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AT	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	AU	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AV	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AW	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AX	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
1	AY	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	AZ	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	Aa	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	Ab	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	Ac	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	Ad	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	Ae	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	Af	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	Ag	0.84	1/1993 (0.1%)	1.07	7/2721 (0.3%)
1	Ah	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	Ai	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	Aj	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	Ak	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	Al	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	Am	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	An	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	Ao	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	BA	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	BB	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	BC	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	BD	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	BE	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	BF	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	BG	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	BH	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
1	BI	0.84	1/1993 (0.1%)	1.07	6/2721 (0.2%)
2	C0	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	C1	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	C2	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	C3	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	C4	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	C5	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	C6	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	C7	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	C8	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	C9	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CA	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CB	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CC	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CD	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CE	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CF	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CG	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
2	CH	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CI	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CJ	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CK	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CL	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CM	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CN	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CO	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CP	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CQ	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CR	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CS	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CT	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CU	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CV	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	CW	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CX	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CY	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	CZ	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Ca	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cb	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cc	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cd	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Ce	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cf	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cg	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Ch	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Ci	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cj	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Ck	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	Cl	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cm	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cn	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Co	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	Cp	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	Cq	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cr	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cs	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)
2	Ct	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cu	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cv	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cw	0.86	1/1566 (0.1%)	1.17	8/2117 (0.4%)
2	Cx	0.86	1/1566 (0.1%)	1.18	8/2117 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
3	D0	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	D1	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	D2	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	D3	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	D4	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	D5	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	D6	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	D7	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	D8	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	D9	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DA	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DB	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DC	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DD	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DE	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DF	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DG	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DH	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DI	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DJ	0.87	5/1769 (0.3%)	1.13	7/2420 (0.3%)
3	DK	0.86	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DL	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DM	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DN	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DO	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DP	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DQ	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DR	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DS	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DT	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DU	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DV	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DW	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DX	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DY	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	DZ	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Da	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Db	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Dc	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Dd	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	De	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Df	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Dg	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z > 2	RMSZ	# Z > 2
3	Dh	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Di	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Dj	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Dk	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Di	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Dm	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Dn	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Do	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Dp	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Dq	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Dr	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	Ds	0.86	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	EA	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	EB	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	EC	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	ED	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
3	EE	0.87	5/1769 (0.3%)	1.12	7/2420 (0.3%)
4	F0	0.78	0/168	1.03	0/226
4	F1	0.78	0/168	1.03	0/226
4	F2	0.78	0/168	1.03	0/226
4	F3	0.78	0/168	1.03	0/226
4	F4	0.78	0/168	1.03	0/226
4	F5	0.78	0/168	1.03	0/226
4	F6	0.77	0/168	1.03	0/226
4	F7	0.78	0/168	1.03	0/226
4	F8	0.78	0/168	1.03	0/226
4	F9	0.78	0/168	1.03	0/226
4	FA	0.78	0/168	1.03	0/226
4	FB	0.78	0/168	1.03	0/226
4	FC	0.78	0/168	1.03	0/226
4	FD	0.78	0/168	1.03	0/226
4	FE	0.78	0/168	1.03	0/226
4	FF	0.78	0/168	1.03	0/226
4	FG	0.78	0/168	1.03	0/226
4	FH	0.78	0/168	1.03	0/226
4	FI	0.78	0/168	1.03	0/226
4	FJ	0.78	0/168	1.03	0/226
4	FK	0.78	0/168	1.03	0/226
4	FL	0.78	0/168	1.03	0/226
4	FM	0.78	0/168	1.03	0/226
4	FN	0.78	0/168	1.03	0/226
4	FO	0.78	0/168	1.03	0/226
4	FP	0.78	0/168	1.03	0/226

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
4	FQ	0.78	0/168	1.03	0/226
4	FR	0.78	0/168	1.03	0/226
4	FS	0.77	0/168	1.03	0/226
4	FT	0.78	0/168	1.03	0/226
4	FU	0.78	0/168	1.03	0/226
4	FV	0.78	0/168	1.03	0/226
4	FW	0.78	0/168	1.03	0/226
4	FX	0.78	0/168	1.03	0/226
4	FY	0.78	0/168	1.03	0/226
4	FZ	0.77	0/168	1.03	0/226
4	Fa	0.78	0/168	1.03	0/226
4	Fb	0.78	0/168	1.03	0/226
4	Fc	0.78	0/168	1.03	0/226
4	Fd	0.77	0/168	1.03	0/226
4	Fe	0.78	0/168	1.03	0/226
4	Ff	0.78	0/168	1.03	0/226
4	Fg	0.78	0/168	1.03	0/226
4	Fh	0.78	0/168	1.03	0/226
4	Fi	0.78	0/168	1.03	0/226
4	Fj	0.78	0/168	1.03	0/226
4	Fk	0.78	0/168	1.03	0/226
4	Fl	0.78	0/168	1.03	0/226
4	Fm	0.78	0/168	1.03	0/226
4	Fn	0.77	0/168	1.03	0/226
4	Fo	0.78	0/168	1.03	0/226
4	Fp	0.78	0/168	1.03	0/226
4	Fq	0.78	0/168	1.03	0/226
4	Fr	0.78	0/168	1.03	0/226
4	Fs	0.78	0/168	1.03	0/226
4	Ft	0.78	0/168	1.03	0/226
4	Fu	0.78	0/168	1.03	0/226
4	Fv	0.78	0/168	1.03	0/226
4	Fw	0.78	0/168	1.03	0/226
4	Fx	0.78	0/168	1.03	0/226
All	All	0.85	420/329760 (0.1%)	1.12	1271/449040 (0.3%)

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 (420) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	DO	119	LYS	CE-NZ	7.44	1.67	1.49
3	DS	119	LYS	CE-NZ	7.43	1.67	1.49
3	DG	119	LYS	CE-NZ	7.42	1.67	1.49
3	D3	119	LYS	CE-NZ	7.42	1.67	1.49
3	Dr	119	LYS	CE-NZ	7.42	1.67	1.49
3	Da	119	LYS	CE-NZ	7.41	1.67	1.49
3	EE	119	LYS	CE-NZ	7.41	1.67	1.49
3	DM	119	LYS	CE-NZ	7.41	1.67	1.49
3	DW	119	LYS	CE-NZ	7.41	1.67	1.49
3	DY	119	LYS	CE-NZ	7.41	1.67	1.49
3	Dl	119	LYS	CE-NZ	7.41	1.67	1.49
3	Dg	119	LYS	CE-NZ	7.40	1.67	1.49
3	DF	119	LYS	CE-NZ	7.40	1.67	1.49
3	DU	119	LYS	CE-NZ	7.40	1.67	1.49
3	DV	119	LYS	CE-NZ	7.40	1.67	1.49
3	Dn	119	LYS	CE-NZ	7.40	1.67	1.49
3	DR	119	LYS	CE-NZ	7.40	1.67	1.49
3	DZ	119	LYS	CE-NZ	7.40	1.67	1.49
3	ED	119	LYS	CE-NZ	7.40	1.67	1.49
3	D1	119	LYS	CE-NZ	7.39	1.67	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	DI	119	LYS	CE-NZ	7.39	1.67	1.49
3	D8	119	LYS	CE-NZ	7.39	1.67	1.49
3	DB	119	LYS	CE-NZ	7.39	1.67	1.49
3	DK	119	LYS	CE-NZ	7.39	1.67	1.49
3	De	119	LYS	CE-NZ	7.39	1.67	1.49
3	EC	119	LYS	CE-NZ	7.39	1.67	1.49
3	DE	119	LYS	CE-NZ	7.39	1.67	1.49
3	Db	119	LYS	CE-NZ	7.39	1.67	1.49
3	Dk	119	LYS	CE-NZ	7.39	1.67	1.49
3	Dc	119	LYS	CE-NZ	7.39	1.67	1.49
3	DA	119	LYS	CE-NZ	7.39	1.67	1.49
3	Di	119	LYS	CE-NZ	7.39	1.67	1.49
3	D7	119	LYS	CE-NZ	7.38	1.67	1.49
3	Dd	119	LYS	CE-NZ	7.38	1.67	1.49
3	Dp	119	LYS	CE-NZ	7.38	1.67	1.49
3	DD	119	LYS	CE-NZ	7.38	1.67	1.49
3	DX	119	LYS	CE-NZ	7.38	1.67	1.49
3	Do	119	LYS	CE-NZ	7.38	1.67	1.49
3	Dj	119	LYS	CE-NZ	7.38	1.67	1.49
3	D5	119	LYS	CE-NZ	7.37	1.67	1.49
3	Dm	119	LYS	CE-NZ	7.37	1.67	1.49
3	D9	119	LYS	CE-NZ	7.37	1.67	1.49
3	D0	119	LYS	CE-NZ	7.37	1.67	1.49
3	D2	119	LYS	CE-NZ	7.37	1.67	1.49
3	D4	119	LYS	CE-NZ	7.37	1.67	1.49
3	D6	119	LYS	CE-NZ	7.37	1.67	1.49
3	DQ	119	LYS	CE-NZ	7.37	1.67	1.49
3	DC	119	LYS	CE-NZ	7.37	1.67	1.49
3	EB	119	LYS	CE-NZ	7.37	1.67	1.49
3	Dh	119	LYS	CE-NZ	7.36	1.67	1.49
3	EA	119	LYS	CE-NZ	7.36	1.67	1.49
3	DJ	119	LYS	CE-NZ	7.36	1.67	1.49
3	DN	119	LYS	CE-NZ	7.36	1.67	1.49
3	DP	119	LYS	CE-NZ	7.35	1.67	1.49
3	Ds	119	LYS	CE-NZ	7.35	1.67	1.49
3	DL	119	LYS	CE-NZ	7.35	1.67	1.49
3	DT	119	LYS	CE-NZ	7.34	1.67	1.49
3	Dq	119	LYS	CE-NZ	7.34	1.67	1.49
3	Df	119	LYS	CE-NZ	7.33	1.67	1.49
3	DH	119	LYS	CE-NZ	7.33	1.67	1.49
3	D9	120	PHE	N-CA	6.38	1.59	1.46
3	DZ	120	PHE	N-CA	6.37	1.59	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Da	120	PHE	N-CA	6.37	1.59	1.46
3	DY	120	PHE	N-CA	6.36	1.59	1.46
3	D2	120	PHE	N-CA	6.36	1.59	1.46
3	DT	120	PHE	N-CA	6.36	1.59	1.46
3	DF	120	PHE	N-CA	6.36	1.59	1.46
3	D4	120	PHE	N-CA	6.35	1.59	1.46
3	D5	120	PHE	N-CA	6.35	1.59	1.46
3	DV	120	PHE	N-CA	6.35	1.59	1.46
3	D3	120	PHE	N-CA	6.35	1.59	1.46
3	DB	120	PHE	N-CA	6.35	1.59	1.46
3	DR	120	PHE	N-CA	6.35	1.59	1.46
3	De	120	PHE	N-CA	6.35	1.59	1.46
3	Df	120	PHE	N-CA	6.34	1.59	1.46
3	Dp	120	PHE	N-CA	6.34	1.59	1.46
3	DQ	120	PHE	N-CA	6.34	1.59	1.46
3	DS	120	PHE	N-CA	6.34	1.59	1.46
3	Dj	120	PHE	N-CA	6.34	1.59	1.46
3	DL	120	PHE	N-CA	6.34	1.59	1.46
3	Dl	120	PHE	N-CA	6.34	1.59	1.46
3	EA	120	PHE	N-CA	6.34	1.59	1.46
3	D7	120	PHE	N-CA	6.33	1.59	1.46
3	DX	120	PHE	N-CA	6.33	1.59	1.46
3	ED	120	PHE	N-CA	6.33	1.59	1.46
3	D8	120	PHE	N-CA	6.33	1.59	1.46
3	Do	120	PHE	N-CA	6.33	1.59	1.46
3	DD	120	PHE	N-CA	6.33	1.59	1.46
3	DO	120	PHE	N-CA	6.33	1.59	1.46
3	Dg	120	PHE	N-CA	6.33	1.59	1.46
3	DH	120	PHE	N-CA	6.32	1.58	1.46
3	DM	120	PHE	N-CA	6.32	1.58	1.46
3	D0	120	PHE	N-CA	6.32	1.58	1.46
3	DA	120	PHE	N-CA	6.32	1.58	1.46
3	DP	120	PHE	N-CA	6.32	1.58	1.46
3	DI	120	PHE	N-CA	6.31	1.58	1.46
3	DN	120	PHE	N-CA	6.31	1.58	1.46
3	DU	120	PHE	N-CA	6.31	1.58	1.46
3	D1	120	PHE	N-CA	6.30	1.58	1.46
3	EC	120	PHE	N-CA	6.30	1.58	1.46
3	DG	120	PHE	N-CA	6.30	1.58	1.46
3	Dk	120	PHE	N-CA	6.30	1.58	1.46
3	Dn	120	PHE	N-CA	6.30	1.58	1.46
3	D6	120	PHE	N-CA	6.30	1.58	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	DK	120	PHE	N-CA	6.30	1.58	1.46
3	Dd	120	PHE	N-CA	6.30	1.58	1.46
3	Dr	120	PHE	N-CA	6.30	1.58	1.46
3	Ds	120	PHE	N-CA	6.30	1.58	1.46
3	EB	120	PHE	N-CA	6.30	1.58	1.46
3	Dm	120	PHE	N-CA	6.30	1.58	1.46
3	Dh	120	PHE	N-CA	6.30	1.58	1.46
3	EE	120	PHE	N-CA	6.30	1.58	1.46
3	Di	120	PHE	N-CA	6.29	1.58	1.46
3	DE	120	PHE	N-CA	6.29	1.58	1.46
3	DW	120	PHE	N-CA	6.29	1.58	1.46
3	Dc	120	PHE	N-CA	6.29	1.58	1.46
3	Db	120	PHE	N-CA	6.29	1.58	1.46
3	DC	120	PHE	N-CA	6.28	1.58	1.46
3	DJ	120	PHE	N-CA	6.28	1.58	1.46
3	Dq	120	PHE	N-CA	6.27	1.58	1.46
3	DR	141	CYS	CB-SG	-5.94	1.72	1.81
3	DX	141	CYS	CB-SG	-5.94	1.72	1.81
3	Dh	141	CYS	CB-SG	-5.93	1.72	1.81
3	DI	141	CYS	CB-SG	-5.93	1.72	1.81
3	Ds	141	CYS	CB-SG	-5.92	1.72	1.81
3	D6	141	CYS	CB-SG	-5.92	1.72	1.81
3	DT	141	CYS	CB-SG	-5.92	1.72	1.81
3	DN	141	CYS	CB-SG	-5.92	1.72	1.81
3	ED	141	CYS	CB-SG	-5.92	1.72	1.81
3	DM	141	CYS	CB-SG	-5.92	1.72	1.81
3	D4	141	CYS	CB-SG	-5.91	1.72	1.81
3	DP	141	CYS	CB-SG	-5.91	1.72	1.81
3	EA	141	CYS	CB-SG	-5.91	1.72	1.81
3	D8	141	CYS	CB-SG	-5.90	1.72	1.81
3	Df	141	CYS	CB-SG	-5.90	1.72	1.81
3	Dq	141	CYS	CB-SG	-5.90	1.72	1.81
3	DG	141	CYS	CB-SG	-5.90	1.72	1.81
3	DZ	141	CYS	CB-SG	-5.90	1.72	1.81
3	De	141	CYS	CB-SG	-5.90	1.72	1.81
3	Dm	141	CYS	CB-SG	-5.90	1.72	1.81
3	DI	141	CYS	CB-SG	-5.89	1.72	1.81
3	DW	141	CYS	CB-SG	-5.89	1.72	1.81
3	Dj	141	CYS	CB-SG	-5.89	1.72	1.81
3	Dk	141	CYS	CB-SG	-5.89	1.72	1.81
3	EC	141	CYS	CB-SG	-5.89	1.72	1.81
3	EE	141	CYS	CB-SG	-5.89	1.72	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	DS	141	CYS	CB-SG	-5.89	1.72	1.81
3	DU	141	CYS	CB-SG	-5.89	1.72	1.81
3	D5	141	CYS	CB-SG	-5.88	1.72	1.81
3	DO	141	CYS	CB-SG	-5.88	1.72	1.81
3	DQ	141	CYS	CB-SG	-5.88	1.72	1.81
3	D7	141	CYS	CB-SG	-5.88	1.72	1.81
3	D9	141	CYS	CB-SG	-5.88	1.72	1.81
3	Dr	141	CYS	CB-SG	-5.88	1.72	1.81
3	D1	141	CYS	CB-SG	-5.87	1.72	1.81
3	DL	141	CYS	CB-SG	-5.87	1.72	1.81
3	Dc	141	CYS	CB-SG	-5.87	1.72	1.81
3	Do	141	CYS	CB-SG	-5.87	1.72	1.81
3	DV	141	CYS	CB-SG	-5.87	1.72	1.81
3	DD	141	CYS	CB-SG	-5.87	1.72	1.81
3	DH	141	CYS	CB-SG	-5.87	1.72	1.81
3	DK	141	CYS	CB-SG	-5.87	1.72	1.81
3	Dg	141	CYS	CB-SG	-5.87	1.72	1.81
3	Db	141	CYS	CB-SG	-5.86	1.72	1.81
3	EB	141	CYS	CB-SG	-5.86	1.72	1.81
3	D2	141	CYS	CB-SG	-5.86	1.72	1.81
3	DF	141	CYS	CB-SG	-5.86	1.72	1.81
3	DJ	141	CYS	CB-SG	-5.86	1.72	1.81
3	Dp	141	CYS	CB-SG	-5.86	1.72	1.81
3	Di	141	CYS	CB-SG	-5.85	1.72	1.81
3	D0	141	CYS	CB-SG	-5.85	1.72	1.81
3	DC	141	CYS	CB-SG	-5.85	1.72	1.81
3	DY	141	CYS	CB-SG	-5.84	1.72	1.81
3	Da	141	CYS	CB-SG	-5.84	1.72	1.81
3	DA	141	CYS	CB-SG	-5.83	1.72	1.81
3	Dd	141	CYS	CB-SG	-5.83	1.72	1.81
3	D3	141	CYS	CB-SG	-5.83	1.72	1.81
3	DE	141	CYS	CB-SG	-5.82	1.72	1.81
3	Dn	141	CYS	CB-SG	-5.82	1.72	1.81
3	DB	141	CYS	CB-SG	-5.81	1.72	1.81
3	Dr	12	ASP	CB-CG	5.65	1.63	1.51
3	D4	12	ASP	CB-CG	5.62	1.63	1.51
3	Dj	12	ASP	CB-CG	5.62	1.63	1.51
3	DT	12	ASP	CB-CG	5.61	1.63	1.51
3	De	12	ASP	CB-CG	5.61	1.63	1.51
3	D6	12	ASP	CB-CG	5.61	1.63	1.51
3	D8	12	ASP	CB-CG	5.61	1.63	1.51
3	DV	12	ASP	CB-CG	5.61	1.63	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Dn	12	ASP	CB-CG	5.61	1.63	1.51
3	DJ	12	ASP	CB-CG	5.60	1.63	1.51
3	ED	12	ASP	CB-CG	5.60	1.63	1.51
3	DD	12	ASP	CB-CG	5.60	1.63	1.51
3	DI	12	ASP	CB-CG	5.60	1.63	1.51
3	D7	12	ASP	CB-CG	5.60	1.63	1.51
3	DW	12	ASP	CB-CG	5.59	1.63	1.51
3	DR	12	ASP	CB-CG	5.59	1.63	1.51
3	DK	12	ASP	CB-CG	5.59	1.63	1.51
3	Dh	12	ASP	CB-CG	5.59	1.63	1.51
3	Do	12	ASP	CB-CG	5.59	1.63	1.51
3	DN	12	ASP	CB-CG	5.59	1.63	1.51
3	DQ	12	ASP	CB-CG	5.59	1.63	1.51
3	DU	12	ASP	CB-CG	5.59	1.63	1.51
3	DY	12	ASP	CB-CG	5.59	1.63	1.51
3	DE	12	ASP	CB-CG	5.59	1.63	1.51
3	Di	12	ASP	CB-CG	5.59	1.63	1.51
3	Dk	12	ASP	CB-CG	5.58	1.63	1.51
3	D9	12	ASP	CB-CG	5.58	1.63	1.51
3	DS	12	ASP	CB-CG	5.58	1.63	1.51
3	D2	12	ASP	CB-CG	5.58	1.63	1.51
3	Dd	12	ASP	CB-CG	5.58	1.63	1.51
3	Dm	12	ASP	CB-CG	5.58	1.63	1.51
3	DX	12	ASP	CB-CG	5.58	1.63	1.51
3	D0	12	ASP	CB-CG	5.57	1.63	1.51
3	Ds	12	ASP	CB-CG	5.57	1.63	1.51
3	DM	12	ASP	CB-CG	5.57	1.63	1.51
3	EA	12	ASP	CB-CG	5.57	1.63	1.51
3	Df	12	ASP	CB-CG	5.57	1.63	1.51
3	DF	12	ASP	CB-CG	5.57	1.63	1.51
3	DL	12	ASP	CB-CG	5.57	1.63	1.51
3	Dp	12	ASP	CB-CG	5.56	1.63	1.51
3	EC	12	ASP	CB-CG	5.56	1.63	1.51
3	D1	12	ASP	CB-CG	5.55	1.63	1.51
3	DB	12	ASP	CB-CG	5.55	1.63	1.51
3	D3	12	ASP	CB-CG	5.55	1.63	1.51
3	DC	12	ASP	CB-CG	5.55	1.63	1.51
3	D5	12	ASP	CB-CG	5.55	1.63	1.51
3	Da	12	ASP	CB-CG	5.55	1.63	1.51
3	DG	12	ASP	CB-CG	5.55	1.63	1.51
3	DO	12	ASP	CB-CG	5.55	1.63	1.51
3	Dc	12	ASP	CB-CG	5.55	1.63	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	DH	12	ASP	CB-CG	5.55	1.63	1.51
3	Dq	12	ASP	CB-CG	5.55	1.63	1.51
3	DP	12	ASP	CB-CG	5.55	1.63	1.51
3	DZ	12	ASP	CB-CG	5.55	1.63	1.51
3	EB	12	ASP	CB-CG	5.55	1.63	1.51
3	Db	12	ASP	CB-CG	5.54	1.63	1.51
3	DA	12	ASP	CB-CG	5.54	1.63	1.51
3	Dg	12	ASP	CB-CG	5.54	1.63	1.51
3	EE	12	ASP	CB-CG	5.54	1.63	1.51
3	Dl	12	ASP	CB-CG	5.53	1.63	1.51
2	Cn	35	CYS	CB-SG	-5.37	1.73	1.81
2	CK	35	CYS	CB-SG	-5.33	1.73	1.81
2	CG	35	CYS	CB-SG	-5.33	1.73	1.81
2	CO	35	CYS	CB-SG	-5.33	1.73	1.81
2	C3	35	CYS	CB-SG	-5.33	1.73	1.81
2	C4	35	CYS	CB-SG	-5.32	1.73	1.81
2	CB	35	CYS	CB-SG	-5.32	1.73	1.81
2	CI	35	CYS	CB-SG	-5.32	1.73	1.81
2	CX	35	CYS	CB-SG	-5.31	1.73	1.81
2	Cu	35	CYS	CB-SG	-5.31	1.73	1.81
2	CY	35	CYS	CB-SG	-5.31	1.73	1.81
2	Ca	35	CYS	CB-SG	-5.31	1.73	1.81
2	Cm	35	CYS	CB-SG	-5.30	1.73	1.81
2	CA	35	CYS	CB-SG	-5.30	1.73	1.81
2	Ch	35	CYS	CB-SG	-5.30	1.73	1.81
2	Cl	35	CYS	CB-SG	-5.30	1.73	1.81
2	CN	35	CYS	CB-SG	-5.29	1.73	1.81
2	CT	35	CYS	CB-SG	-5.29	1.73	1.81
2	Cd	35	CYS	CB-SG	-5.29	1.73	1.81
2	CD	35	CYS	CB-SG	-5.29	1.73	1.81
2	Cq	35	CYS	CB-SG	-5.29	1.73	1.81
2	CQ	35	CYS	CB-SG	-5.29	1.73	1.81
2	Cg	35	CYS	CB-SG	-5.29	1.73	1.81
2	C1	35	CYS	CB-SG	-5.28	1.73	1.81
2	C5	35	CYS	CB-SG	-5.28	1.73	1.81
2	Cc	35	CYS	CB-SG	-5.28	1.73	1.81
2	Co	35	CYS	CB-SG	-5.28	1.73	1.81
2	CS	35	CYS	CB-SG	-5.28	1.73	1.81
2	Cx	35	CYS	CB-SG	-5.28	1.73	1.81
2	CW	35	CYS	CB-SG	-5.28	1.73	1.81
2	CH	35	CYS	CB-SG	-5.28	1.73	1.81
2	CP	35	CYS	CB-SG	-5.27	1.73	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	CM	35	CYS	CB-SG	-5.27	1.73	1.81
2	CC	35	CYS	CB-SG	-5.27	1.73	1.81
2	Ce	35	CYS	CB-SG	-5.27	1.73	1.81
2	Ct	35	CYS	CB-SG	-5.27	1.73	1.81
2	Cr	35	CYS	CB-SG	-5.27	1.73	1.81
2	C7	35	CYS	CB-SG	-5.26	1.73	1.81
2	CJ	35	CYS	CB-SG	-5.26	1.73	1.81
2	Cp	35	CYS	CB-SG	-5.26	1.73	1.81
2	C9	35	CYS	CB-SG	-5.26	1.73	1.81
2	CE	35	CYS	CB-SG	-5.26	1.73	1.81
2	C2	35	CYS	CB-SG	-5.26	1.73	1.81
2	C6	35	CYS	CB-SG	-5.26	1.73	1.81
2	Cv	35	CYS	CB-SG	-5.26	1.73	1.81
2	C8	35	CYS	CB-SG	-5.25	1.73	1.81
2	Cf	35	CYS	CB-SG	-5.25	1.73	1.81
2	CL	35	CYS	CB-SG	-5.25	1.73	1.81
2	CR	35	CYS	CB-SG	-5.25	1.73	1.81
2	Cj	35	CYS	CB-SG	-5.25	1.73	1.81
2	Cs	35	CYS	CB-SG	-5.25	1.73	1.81
2	Cw	35	CYS	CB-SG	-5.25	1.73	1.81
2	Ck	35	CYS	CB-SG	-5.24	1.73	1.81
2	CZ	35	CYS	CB-SG	-5.24	1.73	1.81
2	Cb	35	CYS	CB-SG	-5.24	1.73	1.81
1	BD	207	CYS	CB-SG	-5.23	1.73	1.81
2	Ci	35	CYS	CB-SG	-5.23	1.73	1.81
2	CU	35	CYS	CB-SG	-5.23	1.73	1.81
2	CV	35	CYS	CB-SG	-5.23	1.73	1.81
1	BA	207	CYS	CB-SG	-5.21	1.73	1.81
1	AF	207	CYS	CB-SG	-5.20	1.73	1.81
1	AN	207	CYS	CB-SG	-5.20	1.73	1.81
2	CF	35	CYS	CB-SG	-5.20	1.73	1.81
1	AW	207	CYS	CB-SG	-5.20	1.73	1.81
2	C0	35	CYS	CB-SG	-5.20	1.73	1.81
1	A7	207	CYS	CB-SG	-5.19	1.73	1.81
1	BE	207	CYS	CB-SG	-5.19	1.73	1.81
1	Ad	207	CYS	CB-SG	-5.19	1.73	1.81
1	AR	207	CYS	CB-SG	-5.18	1.73	1.81
1	AV	207	CYS	CB-SG	-5.18	1.73	1.81
1	Ah	207	CYS	CB-SG	-5.18	1.73	1.81
1	AG	207	CYS	CB-SG	-5.18	1.73	1.81
1	A5	207	CYS	CB-SG	-5.17	1.73	1.81
1	An	207	CYS	CB-SG	-5.17	1.73	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AQ	207	CYS	CB-SG	-5.17	1.73	1.81
1	AI	207	CYS	CB-SG	-5.16	1.73	1.81
1	AT	207	CYS	CB-SG	-5.16	1.73	1.81
1	A8	207	CYS	CB-SG	-5.16	1.73	1.81
1	AJ	207	CYS	CB-SG	-5.15	1.73	1.81
1	A3	207	CYS	CB-SG	-5.15	1.73	1.81
1	AD	207	CYS	CB-SG	-5.15	1.73	1.81
1	AX	207	CYS	CB-SG	-5.15	1.73	1.81
1	AP	207	CYS	CB-SG	-5.15	1.73	1.81
1	AU	207	CYS	CB-SG	-5.15	1.73	1.81
1	BF	207	CYS	CB-SG	-5.15	1.73	1.81
1	AZ	207	CYS	CB-SG	-5.14	1.73	1.81
1	Ac	207	CYS	CB-SG	-5.14	1.73	1.81
1	Ae	207	CYS	CB-SG	-5.14	1.73	1.81
1	Ai	207	CYS	CB-SG	-5.14	1.73	1.81
1	BB	207	CYS	CB-SG	-5.13	1.73	1.81
1	A0	207	CYS	CB-SG	-5.13	1.73	1.81
1	A4	207	CYS	CB-SG	-5.13	1.73	1.81
3	Dq	119	LYS	CD-CE	5.13	1.64	1.51
1	Al	207	CYS	CB-SG	-5.13	1.73	1.81
1	AL	207	CYS	CB-SG	-5.13	1.73	1.81
1	Ab	207	CYS	CB-SG	-5.13	1.73	1.81
1	Aa	207	CYS	CB-SG	-5.12	1.73	1.81
1	BH	207	CYS	CB-SG	-5.12	1.73	1.81
1	AO	207	CYS	CB-SG	-5.12	1.73	1.81
1	BC	207	CYS	CB-SG	-5.12	1.73	1.81
1	BI	207	CYS	CB-SG	-5.12	1.73	1.81
3	D8	119	LYS	CD-CE	5.12	1.64	1.51
1	AY	207	CYS	CB-SG	-5.12	1.73	1.81
1	AS	207	CYS	CB-SG	-5.12	1.73	1.81
1	Am	207	CYS	CB-SG	-5.12	1.73	1.81
1	A1	207	CYS	CB-SG	-5.11	1.73	1.81
1	AM	207	CYS	CB-SG	-5.11	1.73	1.81
1	Ag	207	CYS	CB-SG	-5.11	1.73	1.81
1	Ao	207	CYS	CB-SG	-5.11	1.73	1.81
1	BG	207	CYS	CB-SG	-5.11	1.73	1.81
3	De	119	LYS	CD-CE	5.11	1.64	1.51
1	A6	207	CYS	CB-SG	-5.11	1.73	1.81
3	D2	119	LYS	CD-CE	5.11	1.64	1.51
1	AA	207	CYS	CB-SG	-5.11	1.73	1.81
1	AC	207	CYS	CB-SG	-5.11	1.73	1.81
1	Af	207	CYS	CB-SG	-5.11	1.73	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D7	119	LYS	CD-CE	5.11	1.64	1.51
3	EB	119	LYS	CD-CE	5.11	1.64	1.51
1	Ak	207	CYS	CB-SG	-5.10	1.73	1.81
3	DH	119	LYS	CD-CE	5.10	1.64	1.51
3	Dj	119	LYS	CD-CE	5.10	1.64	1.51
3	D9	119	LYS	CD-CE	5.10	1.64	1.51
1	AH	207	CYS	CB-SG	-5.10	1.73	1.81
1	AK	207	CYS	CB-SG	-5.10	1.73	1.81
1	Aj	207	CYS	CB-SG	-5.10	1.73	1.81
3	DQ	119	LYS	CD-CE	5.10	1.64	1.51
3	Dd	119	LYS	CD-CE	5.10	1.64	1.51
3	EC	119	LYS	CD-CE	5.10	1.64	1.51
1	A2	207	CYS	CB-SG	-5.09	1.73	1.81
3	DA	119	LYS	CD-CE	5.09	1.64	1.51
3	Di	119	LYS	CD-CE	5.09	1.64	1.51
3	D4	119	LYS	CD-CE	5.09	1.64	1.51
3	DN	119	LYS	CD-CE	5.09	1.64	1.51
3	Ds	119	LYS	CD-CE	5.09	1.64	1.51
1	A9	207	CYS	CB-SG	-5.09	1.73	1.81
3	DI	119	LYS	CD-CE	5.09	1.64	1.51
3	DP	119	LYS	CD-CE	5.09	1.64	1.51
3	Df	119	LYS	CD-CE	5.09	1.64	1.51
3	ED	119	LYS	CD-CE	5.09	1.64	1.51
3	D5	119	LYS	CD-CE	5.09	1.64	1.51
3	DB	119	LYS	CD-CE	5.08	1.64	1.51
3	DC	119	LYS	CD-CE	5.08	1.64	1.51
3	DD	119	LYS	CD-CE	5.08	1.64	1.51
3	Dr	119	LYS	CD-CE	5.08	1.64	1.51
1	AB	207	CYS	CB-SG	-5.08	1.73	1.81
3	D1	119	LYS	CD-CE	5.08	1.64	1.51
3	DZ	119	LYS	CD-CE	5.08	1.64	1.51
3	DT	119	LYS	CD-CE	5.08	1.64	1.51
3	DV	119	LYS	CD-CE	5.08	1.64	1.51
3	Dn	119	LYS	CD-CE	5.08	1.64	1.51
1	AE	207	CYS	CB-SG	-5.07	1.73	1.81
3	DY	119	LYS	CD-CE	5.07	1.64	1.51
3	DM	119	LYS	CD-CE	5.07	1.64	1.51
3	DO	119	LYS	CD-CE	5.07	1.64	1.51
3	DW	119	LYS	CD-CE	5.07	1.64	1.51
3	D6	119	LYS	CD-CE	5.07	1.64	1.51
3	Dc	119	LYS	CD-CE	5.07	1.64	1.51
3	DX	119	LYS	CD-CE	5.07	1.64	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	DE	119	LYS	CD-CE	5.07	1.64	1.51
3	DF	119	LYS	CD-CE	5.07	1.64	1.51
3	Dh	119	LYS	CD-CE	5.07	1.64	1.51
3	DJ	119	LYS	CD-CE	5.06	1.64	1.51
3	DR	119	LYS	CD-CE	5.06	1.64	1.51
3	D0	119	LYS	CD-CE	5.06	1.64	1.51
3	Dp	119	LYS	CD-CE	5.06	1.64	1.51
3	D3	119	LYS	CD-CE	5.06	1.63	1.51
3	Dg	119	LYS	CD-CE	5.06	1.63	1.51
3	DL	119	LYS	CD-CE	5.06	1.63	1.51
3	Da	119	LYS	CD-CE	5.06	1.63	1.51
3	DK	119	LYS	CD-CE	5.05	1.63	1.51
3	EE	119	LYS	CD-CE	5.05	1.63	1.51
3	EA	119	LYS	CD-CE	5.05	1.63	1.51
3	DU	119	LYS	CD-CE	5.05	1.63	1.51
3	Dm	119	LYS	CD-CE	5.05	1.63	1.51
3	Dl	119	LYS	CD-CE	5.05	1.63	1.51
3	DS	119	LYS	CD-CE	5.04	1.63	1.51
3	Dk	119	LYS	CD-CE	5.04	1.63	1.51
3	Do	119	LYS	CD-CE	5.04	1.63	1.51
3	Db	119	LYS	CD-CE	5.03	1.63	1.51
3	DG	119	LYS	CD-CE	5.02	1.63	1.51

All (1271) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cx	58	LEU	CA-CB-CG	9.46	137.05	115.30
2	C2	58	LEU	CA-CB-CG	9.45	137.04	115.30
2	CB	58	LEU	CA-CB-CG	9.46	137.05	115.30
2	Cn	58	LEU	CA-CB-CG	9.45	137.04	115.30
2	CC	58	LEU	CA-CB-CG	9.45	137.03	115.30
2	Ck	58	LEU	CA-CB-CG	9.45	137.03	115.30
2	CD	58	LEU	CA-CB-CG	9.44	137.02	115.30
2	C3	58	LEU	CA-CB-CG	9.44	137.01	115.30
2	Cb	58	LEU	CA-CB-CG	9.44	137.02	115.30
2	Cv	58	LEU	CA-CB-CG	9.44	137.02	115.30
2	Cl	58	LEU	CA-CB-CG	9.44	137.01	115.30
2	CF	58	LEU	CA-CB-CG	9.44	137.01	115.30
2	CG	58	LEU	CA-CB-CG	9.44	137.01	115.30
2	Cm	58	LEU	CA-CB-CG	9.44	137.01	115.30
2	C1	58	LEU	CA-CB-CG	9.44	137.00	115.30
2	C4	58	LEU	CA-CB-CG	9.44	137.00	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cd	58	LEU	CA-CB-CG	9.44	137.00	115.30
2	Ch	58	LEU	CA-CB-CG	9.44	137.00	115.30
2	CH	58	LEU	CA-CB-CG	9.43	137.00	115.30
2	CI	58	LEU	CA-CB-CG	9.43	137.00	115.30
2	CP	58	LEU	CA-CB-CG	9.43	137.00	115.30
2	Ct	58	LEU	CA-CB-CG	9.43	137.00	115.30
2	C7	58	LEU	CA-CB-CG	9.43	136.99	115.30
2	CW	58	LEU	CA-CB-CG	9.43	136.99	115.30
2	CX	58	LEU	CA-CB-CG	9.43	137.00	115.30
2	Cf	58	LEU	CA-CB-CG	9.43	137.00	115.30
2	CL	58	LEU	CA-CB-CG	9.43	136.99	115.30
2	CM	58	LEU	CA-CB-CG	9.43	136.99	115.30
2	CZ	58	LEU	CA-CB-CG	9.43	136.99	115.30
2	CA	58	LEU	CA-CB-CG	9.43	136.98	115.30
2	Ci	58	LEU	CA-CB-CG	9.43	136.99	115.30
2	Cr	58	LEU	CA-CB-CG	9.43	136.98	115.30
2	C9	58	LEU	CA-CB-CG	9.43	136.98	115.30
2	Cg	58	LEU	CA-CB-CG	9.43	136.98	115.30
2	C8	58	LEU	CA-CB-CG	9.43	136.98	115.30
2	CE	58	LEU	CA-CB-CG	9.43	136.98	115.30
2	CK	58	LEU	CA-CB-CG	9.43	136.98	115.30
2	CV	58	LEU	CA-CB-CG	9.43	136.98	115.30
2	Ca	58	LEU	CA-CB-CG	9.43	136.98	115.30
2	Cq	58	LEU	CA-CB-CG	9.43	136.98	115.30
2	CQ	58	LEU	CA-CB-CG	9.42	136.98	115.30
2	C5	58	LEU	CA-CB-CG	9.42	136.97	115.30
2	Co	58	LEU	CA-CB-CG	9.42	136.97	115.30
2	C6	58	LEU	CA-CB-CG	9.42	136.97	115.30
2	CJ	58	LEU	CA-CB-CG	9.42	136.97	115.30
2	CY	58	LEU	CA-CB-CG	9.42	136.97	115.30
2	CR	58	LEU	CA-CB-CG	9.42	136.96	115.30
2	CS	58	LEU	CA-CB-CG	9.42	136.96	115.30
2	Ce	58	LEU	CA-CB-CG	9.42	136.96	115.30
2	Cs	58	LEU	CA-CB-CG	9.42	136.96	115.30
2	C0	58	LEU	CA-CB-CG	9.41	136.95	115.30
2	CO	58	LEU	CA-CB-CG	9.41	136.95	115.30
2	Cp	58	LEU	CA-CB-CG	9.41	136.95	115.30
2	Cc	58	LEU	CA-CB-CG	9.41	136.94	115.30
2	CN	58	LEU	CA-CB-CG	9.41	136.94	115.30
2	CT	58	LEU	CA-CB-CG	9.41	136.94	115.30
2	Cu	58	LEU	CA-CB-CG	9.41	136.94	115.30
2	Cj	58	LEU	CA-CB-CG	9.40	136.93	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CU	58	LEU	CA-CB-CG	9.40	136.93	115.30
2	Cw	58	LEU	CA-CB-CG	9.40	136.93	115.30
3	Dm	149	GLY	N-CA-C	-9.04	90.51	113.10
3	EC	149	GLY	N-CA-C	-9.03	90.52	113.10
3	DH	149	GLY	N-CA-C	-9.03	90.53	113.10
3	DK	149	GLY	N-CA-C	-9.03	90.54	113.10
3	Dr	149	GLY	N-CA-C	-9.03	90.54	113.10
3	EE	149	GLY	N-CA-C	-9.03	90.53	113.10
3	DU	149	GLY	N-CA-C	-9.02	90.55	113.10
3	De	149	GLY	N-CA-C	-9.02	90.54	113.10
3	Da	149	GLY	N-CA-C	-9.02	90.55	113.10
3	D6	149	GLY	N-CA-C	-9.02	90.56	113.10
3	D8	149	GLY	N-CA-C	-9.02	90.56	113.10
3	DT	149	GLY	N-CA-C	-9.02	90.56	113.10
3	Dk	149	GLY	N-CA-C	-9.02	90.56	113.10
3	Dq	149	GLY	N-CA-C	-9.02	90.56	113.10
3	DI	149	GLY	N-CA-C	-9.01	90.56	113.10
3	Db	149	GLY	N-CA-C	-9.01	90.57	113.10
3	Dh	149	GLY	N-CA-C	-9.01	90.57	113.10
3	DA	149	GLY	N-CA-C	-9.01	90.58	113.10
3	DP	149	GLY	N-CA-C	-9.01	90.58	113.10
3	DS	149	GLY	N-CA-C	-9.01	90.58	113.10
3	DZ	149	GLY	N-CA-C	-9.01	90.58	113.10
3	Di	149	GLY	N-CA-C	-9.01	90.58	113.10
3	ED	149	GLY	N-CA-C	-9.01	90.58	113.10
3	D1	149	GLY	N-CA-C	-9.01	90.58	113.10
3	DY	149	GLY	N-CA-C	-9.01	90.58	113.10
3	Dn	149	GLY	N-CA-C	-9.01	90.58	113.10
3	D3	149	GLY	N-CA-C	-9.01	90.59	113.10
3	D9	149	GLY	N-CA-C	-9.01	90.58	113.10
3	Dc	149	GLY	N-CA-C	-9.01	90.59	113.10
3	Dg	149	GLY	N-CA-C	-9.01	90.58	113.10
3	Dp	149	GLY	N-CA-C	-9.01	90.59	113.10
3	DJ	149	GLY	N-CA-C	-9.00	90.59	113.10
3	DN	149	GLY	N-CA-C	-9.00	90.59	113.10
3	DR	149	GLY	N-CA-C	-9.00	90.59	113.10
3	EA	149	GLY	N-CA-C	-9.00	90.59	113.10
3	D0	149	GLY	N-CA-C	-9.00	90.60	113.10
3	D2	149	GLY	N-CA-C	-9.00	90.60	113.10
3	D4	149	GLY	N-CA-C	-9.00	90.60	113.10
3	DB	149	GLY	N-CA-C	-9.00	90.60	113.10
3	DQ	149	GLY	N-CA-C	-9.00	90.60	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DV	149	GLY	N-CA-C	-9.00	90.60	113.10
3	DW	149	GLY	N-CA-C	-9.00	90.60	113.10
3	DX	149	GLY	N-CA-C	-9.00	90.60	113.10
3	Df	149	GLY	N-CA-C	-9.00	90.60	113.10
3	Ds	149	GLY	N-CA-C	-9.00	90.60	113.10
3	Dd	149	GLY	N-CA-C	-9.00	90.61	113.10
3	Dj	149	GLY	N-CA-C	-9.00	90.61	113.10
3	DI	149	GLY	N-CA-C	-9.00	90.61	113.10
3	EB	149	GLY	N-CA-C	-9.00	90.61	113.10
3	DD	149	GLY	N-CA-C	-9.00	90.61	113.10
3	DE	149	GLY	N-CA-C	-9.00	90.61	113.10
3	DF	149	GLY	N-CA-C	-9.00	90.61	113.10
3	DG	149	GLY	N-CA-C	-9.00	90.61	113.10
3	D7	149	GLY	N-CA-C	-8.99	90.62	113.10
3	DO	149	GLY	N-CA-C	-8.99	90.61	113.10
3	Do	149	GLY	N-CA-C	-8.99	90.62	113.10
3	DC	149	GLY	N-CA-C	-8.99	90.64	113.10
3	DL	149	GLY	N-CA-C	-8.99	90.63	113.10
3	DM	149	GLY	N-CA-C	-8.99	90.63	113.10
3	D5	149	GLY	N-CA-C	-8.97	90.67	113.10
3	Dq	120	PHE	CB-CA-C	-8.36	93.67	110.40
3	DT	120	PHE	CB-CA-C	-8.35	93.70	110.40
3	Ds	120	PHE	CB-CA-C	-8.35	93.70	110.40
3	EA	120	PHE	CB-CA-C	-8.35	93.70	110.40
3	DI	120	PHE	CB-CA-C	-8.35	93.70	110.40
3	DW	120	PHE	CB-CA-C	-8.35	93.70	110.40
3	Dd	120	PHE	CB-CA-C	-8.35	93.70	110.40
3	Di	120	PHE	CB-CA-C	-8.35	93.70	110.40
3	ED	120	PHE	CB-CA-C	-8.35	93.70	110.40
3	Dc	120	PHE	CB-CA-C	-8.35	93.71	110.40
3	Dn	120	PHE	CB-CA-C	-8.35	93.71	110.40
3	Dr	120	PHE	CB-CA-C	-8.35	93.71	110.40
3	EC	120	PHE	CB-CA-C	-8.35	93.71	110.40
3	DK	120	PHE	CB-CA-C	-8.34	93.72	110.40
3	D5	120	PHE	CB-CA-C	-8.34	93.72	110.40
3	D7	120	PHE	CB-CA-C	-8.34	93.73	110.40
3	DE	120	PHE	CB-CA-C	-8.34	93.72	110.40
3	DO	120	PHE	CB-CA-C	-8.34	93.73	110.40
3	D9	120	PHE	CB-CA-C	-8.34	93.73	110.40
3	DD	120	PHE	CB-CA-C	-8.34	93.73	110.40
3	DR	120	PHE	CB-CA-C	-8.34	93.73	110.40
3	DS	120	PHE	CB-CA-C	-8.34	93.73	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DU	120	PHE	CB-CA-C	-8.34	93.73	110.40
3	DY	120	PHE	CB-CA-C	-8.34	93.73	110.40
3	EB	120	PHE	CB-CA-C	-8.34	93.73	110.40
3	D8	120	PHE	CB-CA-C	-8.33	93.73	110.40
3	DQ	120	PHE	CB-CA-C	-8.33	93.74	110.40
3	DC	120	PHE	CB-CA-C	-8.33	93.74	110.40
3	DG	120	PHE	CB-CA-C	-8.33	93.74	110.40
3	DH	120	PHE	CB-CA-C	-8.33	93.75	110.40
3	Dg	120	PHE	CB-CA-C	-8.33	93.75	110.40
3	DI	120	PHE	CB-CA-C	-8.33	93.75	110.40
3	DF	120	PHE	CB-CA-C	-8.32	93.75	110.40
3	DJ	120	PHE	CB-CA-C	-8.32	93.75	110.40
3	DP	120	PHE	CB-CA-C	-8.32	93.75	110.40
3	DZ	120	PHE	CB-CA-C	-8.32	93.75	110.40
3	De	120	PHE	CB-CA-C	-8.32	93.75	110.40
3	EE	120	PHE	CB-CA-C	-8.32	93.75	110.40
3	Da	120	PHE	CB-CA-C	-8.32	93.76	110.40
3	Dh	120	PHE	CB-CA-C	-8.32	93.75	110.40
3	D1	120	PHE	CB-CA-C	-8.32	93.76	110.40
3	D3	120	PHE	CB-CA-C	-8.32	93.76	110.40
3	D6	120	PHE	CB-CA-C	-8.32	93.76	110.40
3	Dm	120	PHE	CB-CA-C	-8.32	93.76	110.40
3	Dj	120	PHE	CB-CA-C	-8.32	93.76	110.40
3	Dk	120	PHE	CB-CA-C	-8.32	93.76	110.40
3	DB	120	PHE	CB-CA-C	-8.32	93.77	110.40
3	DX	120	PHE	CB-CA-C	-8.32	93.77	110.40
3	DA	120	PHE	CB-CA-C	-8.31	93.77	110.40
3	DM	120	PHE	CB-CA-C	-8.31	93.77	110.40
3	Do	120	PHE	CB-CA-C	-8.31	93.77	110.40
3	Dp	120	PHE	CB-CA-C	-8.31	93.78	110.40
3	D0	120	PHE	CB-CA-C	-8.31	93.78	110.40
3	DN	120	PHE	CB-CA-C	-8.31	93.78	110.40
3	Db	120	PHE	CB-CA-C	-8.31	93.78	110.40
3	Df	120	PHE	CB-CA-C	-8.30	93.79	110.40
3	D4	120	PHE	CB-CA-C	-8.30	93.80	110.40
3	D2	120	PHE	CB-CA-C	-8.30	93.80	110.40
3	DV	120	PHE	CB-CA-C	-8.30	93.80	110.40
3	DL	120	PHE	CB-CA-C	-8.30	93.80	110.40
3	DD	119	LYS	CD-CE-NZ	7.56	129.09	111.70
3	DJ	119	LYS	CD-CE-NZ	7.56	129.09	111.70
3	DC	119	LYS	CD-CE-NZ	7.55	129.07	111.70
3	DT	119	LYS	CD-CE-NZ	7.55	129.07	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D5	119	LYS	CD-CE-NZ	7.55	129.07	111.70
3	Db	119	LYS	CD-CE-NZ	7.55	129.06	111.70
3	Dd	119	LYS	CD-CE-NZ	7.55	129.06	111.70
3	Df	119	LYS	CD-CE-NZ	7.55	129.06	111.70
3	DK	119	LYS	CD-CE-NZ	7.55	129.06	111.70
3	Dq	119	LYS	CD-CE-NZ	7.54	129.05	111.70
3	D1	119	LYS	CD-CE-NZ	7.54	129.05	111.70
3	DN	119	LYS	CD-CE-NZ	7.54	129.05	111.70
3	Do	119	LYS	CD-CE-NZ	7.54	129.05	111.70
3	Dp	119	LYS	CD-CE-NZ	7.54	129.05	111.70
3	DG	119	LYS	CD-CE-NZ	7.54	129.05	111.70
3	DP	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	DV	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	DZ	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	DB	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	DI	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	D2	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	D6	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	Dg	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	Dk	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	Dl	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	Dm	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	D4	119	LYS	CD-CE-NZ	7.54	129.04	111.70
3	DL	119	LYS	CD-CE-NZ	7.54	129.03	111.70
3	D0	119	LYS	CD-CE-NZ	7.53	129.03	111.70
3	D7	119	LYS	CD-CE-NZ	7.53	129.03	111.70
3	DE	119	LYS	CD-CE-NZ	7.53	129.03	111.70
3	DF	119	LYS	CD-CE-NZ	7.53	129.03	111.70
3	D9	119	LYS	CD-CE-NZ	7.53	129.02	111.70
3	EB	119	LYS	CD-CE-NZ	7.53	129.02	111.70
3	DQ	119	LYS	CD-CE-NZ	7.53	129.02	111.70
3	DU	119	LYS	CD-CE-NZ	7.53	129.02	111.70
3	DX	119	LYS	CD-CE-NZ	7.53	129.02	111.70
3	Dc	119	LYS	CD-CE-NZ	7.53	129.02	111.70
3	ED	119	LYS	CD-CE-NZ	7.53	129.02	111.70
3	Dh	119	LYS	CD-CE-NZ	7.53	129.02	111.70
3	DA	119	LYS	CD-CE-NZ	7.53	129.01	111.70
3	Di	119	LYS	CD-CE-NZ	7.53	129.01	111.70
3	DO	119	LYS	CD-CE-NZ	7.53	129.01	111.70
3	Dr	119	LYS	CD-CE-NZ	7.53	129.01	111.70
3	EA	119	LYS	CD-CE-NZ	7.53	129.01	111.70
3	Ds	119	LYS	CD-CE-NZ	7.52	129.01	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DM	119	LYS	CD-CE-NZ	7.52	129.00	111.70
3	DS	119	LYS	CD-CE-NZ	7.52	129.00	111.70
3	DY	119	LYS	CD-CE-NZ	7.52	129.00	111.70
3	D3	119	LYS	CD-CE-NZ	7.52	129.00	111.70
3	DH	119	LYS	CD-CE-NZ	7.52	129.00	111.70
3	EC	119	LYS	CD-CE-NZ	7.52	129.00	111.70
3	DW	119	LYS	CD-CE-NZ	7.52	128.99	111.70
3	DR	119	LYS	CD-CE-NZ	7.51	128.98	111.70
3	Dn	119	LYS	CD-CE-NZ	7.51	128.98	111.70
3	Da	119	LYS	CD-CE-NZ	7.51	128.97	111.70
3	EE	119	LYS	CD-CE-NZ	7.51	128.97	111.70
3	D8	119	LYS	CD-CE-NZ	7.51	128.97	111.70
3	De	119	LYS	CD-CE-NZ	7.51	128.97	111.70
3	Dj	119	LYS	CD-CE-NZ	7.50	128.95	111.70
2	CL	92	GLY	N-CA-C	7.44	131.69	113.10
2	CS	92	GLY	N-CA-C	7.42	131.65	113.10
2	CG	92	GLY	N-CA-C	7.42	131.65	113.10
2	Cv	92	GLY	N-CA-C	7.42	131.64	113.10
2	CF	92	GLY	N-CA-C	7.42	131.64	113.10
2	Cg	92	GLY	N-CA-C	7.42	131.64	113.10
2	C1	92	GLY	N-CA-C	7.41	131.63	113.10
2	CO	92	GLY	N-CA-C	7.41	131.63	113.10
2	C3	92	GLY	N-CA-C	7.41	131.63	113.10
2	C4	92	GLY	N-CA-C	7.41	131.63	113.10
2	Ce	92	GLY	N-CA-C	7.41	131.63	113.10
2	C7	92	GLY	N-CA-C	7.41	131.62	113.10
2	Ca	92	GLY	N-CA-C	7.41	131.62	113.10
2	CE	92	GLY	N-CA-C	7.41	131.62	113.10
2	CZ	92	GLY	N-CA-C	7.41	131.62	113.10
2	Ch	92	GLY	N-CA-C	7.41	131.62	113.10
2	C5	92	GLY	N-CA-C	7.41	131.61	113.10
2	C6	92	GLY	N-CA-C	7.41	131.61	113.10
2	CC	92	GLY	N-CA-C	7.40	131.61	113.10
2	CD	92	GLY	N-CA-C	7.40	131.61	113.10
2	CX	92	GLY	N-CA-C	7.40	131.61	113.10
2	Cn	92	GLY	N-CA-C	7.40	131.61	113.10
2	Co	92	GLY	N-CA-C	7.40	131.61	113.10
2	Cp	92	GLY	N-CA-C	7.40	131.61	113.10
2	Cb	92	GLY	N-CA-C	7.40	131.60	113.10
2	Cd	92	GLY	N-CA-C	7.40	131.60	113.10
2	Cj	92	GLY	N-CA-C	7.40	131.60	113.10
2	Cr	92	GLY	N-CA-C	7.40	131.60	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CA	92	GLY	N-CA-C	7.40	131.60	113.10
2	CT	92	GLY	N-CA-C	7.40	131.59	113.10
2	CU	92	GLY	N-CA-C	7.40	131.59	113.10
2	Ci	92	GLY	N-CA-C	7.40	131.59	113.10
2	Cu	92	GLY	N-CA-C	7.40	131.59	113.10
2	CJ	92	GLY	N-CA-C	7.40	131.59	113.10
2	CM	92	GLY	N-CA-C	7.40	131.59	113.10
2	C2	92	GLY	N-CA-C	7.39	131.59	113.10
2	CN	92	GLY	N-CA-C	7.39	131.59	113.10
2	CW	92	GLY	N-CA-C	7.39	131.59	113.10
2	CP	92	GLY	N-CA-C	7.39	131.58	113.10
2	CQ	92	GLY	N-CA-C	7.39	131.58	113.10
2	Ck	92	GLY	N-CA-C	7.39	131.58	113.10
2	Cm	92	GLY	N-CA-C	7.39	131.58	113.10
2	C8	92	GLY	N-CA-C	7.39	131.58	113.10
2	CR	92	GLY	N-CA-C	7.39	131.57	113.10
2	Cq	92	GLY	N-CA-C	7.39	131.57	113.10
2	Ct	92	GLY	N-CA-C	7.39	131.57	113.10
2	C0	92	GLY	N-CA-C	7.39	131.57	113.10
2	Cc	92	GLY	N-CA-C	7.39	131.57	113.10
2	CB	92	GLY	N-CA-C	7.39	131.57	113.10
2	CH	92	GLY	N-CA-C	7.39	131.56	113.10
2	CK	92	GLY	N-CA-C	7.39	131.56	113.10
2	CV	92	GLY	N-CA-C	7.39	131.57	113.10
2	CY	92	GLY	N-CA-C	7.39	131.56	113.10
2	Cf	92	GLY	N-CA-C	7.39	131.57	113.10
2	Cs	92	GLY	N-CA-C	7.39	131.56	113.10
2	Cl	92	GLY	N-CA-C	7.38	131.56	113.10
2	C9	92	GLY	N-CA-C	7.38	131.55	113.10
2	Cx	92	GLY	N-CA-C	7.38	131.54	113.10
2	CI	92	GLY	N-CA-C	7.38	131.54	113.10
2	Cw	92	GLY	N-CA-C	7.37	131.53	113.10
2	CD	188	LEU	CA-CB-CG	7.02	131.45	115.30
2	C9	188	LEU	CA-CB-CG	7.01	131.43	115.30
2	CB	188	LEU	CA-CB-CG	7.01	131.43	115.30
2	CL	188	LEU	CA-CB-CG	7.01	131.43	115.30
2	CU	188	LEU	CA-CB-CG	7.01	131.43	115.30
2	Cf	188	LEU	CA-CB-CG	7.01	131.43	115.30
2	Ch	188	LEU	CA-CB-CG	7.01	131.43	115.30
2	Cp	188	LEU	CA-CB-CG	7.01	131.43	115.30
2	C7	188	LEU	CA-CB-CG	7.00	131.41	115.30
2	CT	188	LEU	CA-CB-CG	7.00	131.41	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CW	188	LEU	CA-CB-CG	7.00	131.41	115.30
2	Cs	188	LEU	CA-CB-CG	7.00	131.41	115.30
2	Ct	188	LEU	CA-CB-CG	7.00	131.41	115.30
2	CG	188	LEU	CA-CB-CG	7.00	131.41	115.30
2	CY	188	LEU	CA-CB-CG	7.00	131.40	115.30
2	Cw	188	LEU	CA-CB-CG	7.00	131.40	115.30
2	Ce	188	LEU	CA-CB-CG	7.00	131.40	115.30
2	C2	188	LEU	CA-CB-CG	7.00	131.39	115.30
2	CI	188	LEU	CA-CB-CG	7.00	131.39	115.30
2	Cb	188	LEU	CA-CB-CG	7.00	131.39	115.30
2	CJ	188	LEU	CA-CB-CG	6.99	131.38	115.30
2	Cc	188	LEU	CA-CB-CG	6.99	131.39	115.30
2	C3	188	LEU	CA-CB-CG	6.99	131.38	115.30
2	CE	188	LEU	CA-CB-CG	6.99	131.38	115.30
2	CQ	188	LEU	CA-CB-CG	6.99	131.38	115.30
2	Co	188	LEU	CA-CB-CG	6.99	131.38	115.30
2	C8	188	LEU	CA-CB-CG	6.99	131.38	115.30
2	Ci	188	LEU	CA-CB-CG	6.99	131.38	115.30
2	Cj	188	LEU	CA-CB-CG	6.99	131.38	115.30
2	Cl	188	LEU	CA-CB-CG	6.99	131.38	115.30
2	Cv	188	LEU	CA-CB-CG	6.99	131.38	115.30
2	C0	188	LEU	CA-CB-CG	6.99	131.37	115.30
2	Cu	188	LEU	CA-CB-CG	6.99	131.37	115.30
2	CN	188	LEU	CA-CB-CG	6.99	131.37	115.30
2	CF	188	LEU	CA-CB-CG	6.99	131.37	115.30
2	CH	188	LEU	CA-CB-CG	6.99	131.37	115.30
2	CP	188	LEU	CA-CB-CG	6.99	131.37	115.30
2	CS	188	LEU	CA-CB-CG	6.99	131.37	115.30
2	Cd	188	LEU	CA-CB-CG	6.99	131.37	115.30
2	Cq	188	LEU	CA-CB-CG	6.99	131.37	115.30
2	C5	188	LEU	CA-CB-CG	6.98	131.36	115.30
2	CX	188	LEU	CA-CB-CG	6.98	131.36	115.30
2	Ck	188	LEU	CA-CB-CG	6.98	131.36	115.30
2	CZ	188	LEU	CA-CB-CG	6.98	131.36	115.30
2	Ca	188	LEU	CA-CB-CG	6.98	131.36	115.30
2	C4	188	LEU	CA-CB-CG	6.98	131.35	115.30
2	C6	188	LEU	CA-CB-CG	6.98	131.35	115.30
2	CC	188	LEU	CA-CB-CG	6.98	131.35	115.30
2	C1	188	LEU	CA-CB-CG	6.98	131.35	115.30
2	CA	188	LEU	CA-CB-CG	6.98	131.35	115.30
2	Cx	188	LEU	CA-CB-CG	6.98	131.35	115.30
2	Cm	188	LEU	CA-CB-CG	6.97	131.34	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CM	188	LEU	CA-CB-CG	6.97	131.34	115.30
2	Cr	188	LEU	CA-CB-CG	6.97	131.34	115.30
2	Cn	188	LEU	CA-CB-CG	6.97	131.33	115.30
2	CK	188	LEU	CA-CB-CG	6.96	131.32	115.30
2	Cg	188	LEU	CA-CB-CG	6.96	131.31	115.30
2	CO	188	LEU	CA-CB-CG	6.95	131.29	115.30
2	CR	188	LEU	CA-CB-CG	6.95	131.29	115.30
2	CV	188	LEU	CA-CB-CG	6.95	131.29	115.30
2	CF	162	LEU	CA-CB-CG	6.72	130.77	115.30
2	CV	162	LEU	CA-CB-CG	6.72	130.75	115.30
2	CC	162	LEU	CA-CB-CG	6.71	130.72	115.30
2	Cr	162	LEU	CA-CB-CG	6.71	130.72	115.30
2	CD	162	LEU	CA-CB-CG	6.70	130.71	115.30
2	C8	162	LEU	CA-CB-CG	6.70	130.70	115.30
2	Cl	162	LEU	CA-CB-CG	6.70	130.71	115.30
2	Cf	162	LEU	CA-CB-CG	6.70	130.70	115.30
2	Cw	162	LEU	CA-CB-CG	6.70	130.70	115.30
2	C9	162	LEU	CA-CB-CG	6.70	130.70	115.30
2	CA	162	LEU	CA-CB-CG	6.69	130.69	115.30
2	CG	162	LEU	CA-CB-CG	6.69	130.69	115.30
2	CP	162	LEU	CA-CB-CG	6.69	130.69	115.30
2	Cc	162	LEU	CA-CB-CG	6.69	130.69	115.30
2	C6	162	LEU	CA-CB-CG	6.69	130.69	115.30
2	CI	162	LEU	CA-CB-CG	6.69	130.69	115.30
2	Cv	162	LEU	CA-CB-CG	6.69	130.69	115.30
2	CH	162	LEU	CA-CB-CG	6.69	130.69	115.30
2	CQ	162	LEU	CA-CB-CG	6.69	130.68	115.30
2	C0	162	LEU	CA-CB-CG	6.69	130.68	115.30
2	CJ	162	LEU	CA-CB-CG	6.69	130.68	115.30
2	CW	162	LEU	CA-CB-CG	6.69	130.68	115.30
2	Cj	162	LEU	CA-CB-CG	6.69	130.68	115.30
2	Cx	162	LEU	CA-CB-CG	6.69	130.68	115.30
2	Cp	162	LEU	CA-CB-CG	6.69	130.68	115.30
2	Ce	162	LEU	CA-CB-CG	6.68	130.68	115.30
2	CL	162	LEU	CA-CB-CG	6.68	130.67	115.30
2	Co	162	LEU	CA-CB-CG	6.68	130.67	115.30
2	Cm	162	LEU	CA-CB-CG	6.68	130.66	115.30
2	C5	162	LEU	CA-CB-CG	6.68	130.65	115.30
2	CM	162	LEU	CA-CB-CG	6.68	130.65	115.30
2	Cn	162	LEU	CA-CB-CG	6.68	130.66	115.30
2	CN	162	LEU	CA-CB-CG	6.67	130.65	115.30
2	CR	162	LEU	CA-CB-CG	6.67	130.65	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CU	162	LEU	CA-CB-CG	6.67	130.65	115.30
2	CK	162	LEU	CA-CB-CG	6.67	130.65	115.30
2	Cb	162	LEU	CA-CB-CG	6.67	130.65	115.30
2	Cs	162	LEU	CA-CB-CG	6.67	130.65	115.30
2	C2	162	LEU	CA-CB-CG	6.67	130.64	115.30
2	CB	162	LEU	CA-CB-CG	6.67	130.64	115.30
2	CS	162	LEU	CA-CB-CG	6.67	130.64	115.30
2	Ch	162	LEU	CA-CB-CG	6.67	130.64	115.30
2	Ct	162	LEU	CA-CB-CG	6.67	130.64	115.30
2	C4	162	LEU	CA-CB-CG	6.67	130.63	115.30
2	C7	162	LEU	CA-CB-CG	6.67	130.63	115.30
2	CO	162	LEU	CA-CB-CG	6.67	130.63	115.30
2	CY	162	LEU	CA-CB-CG	6.67	130.63	115.30
2	Ck	162	LEU	CA-CB-CG	6.67	130.63	115.30
2	Cu	162	LEU	CA-CB-CG	6.67	130.63	115.30
2	CZ	162	LEU	CA-CB-CG	6.67	130.63	115.30
2	CE	162	LEU	CA-CB-CG	6.66	130.63	115.30
2	Ci	162	LEU	CA-CB-CG	6.66	130.63	115.30
2	Ca	162	LEU	CA-CB-CG	6.66	130.62	115.30
2	Cg	162	LEU	CA-CB-CG	6.66	130.62	115.30
2	Cd	162	LEU	CA-CB-CG	6.66	130.61	115.30
2	C1	162	LEU	CA-CB-CG	6.66	130.61	115.30
2	CX	162	LEU	CA-CB-CG	6.66	130.61	115.30
2	Cq	162	LEU	CA-CB-CG	6.65	130.60	115.30
2	CT	162	LEU	CA-CB-CG	6.65	130.60	115.30
2	C3	162	LEU	CA-CB-CG	6.65	130.60	115.30
3	DY	119	LYS	CB-CA-C	6.54	123.48	110.40
3	DP	119	LYS	CB-CA-C	6.54	123.48	110.40
3	DE	119	LYS	CB-CA-C	6.54	123.48	110.40
3	DQ	119	LYS	CB-CA-C	6.54	123.48	110.40
3	EA	119	LYS	CB-CA-C	6.54	123.48	110.40
3	EC	119	LYS	CB-CA-C	6.54	123.48	110.40
3	DT	119	LYS	CB-CA-C	6.54	123.47	110.40
3	DW	119	LYS	CB-CA-C	6.54	123.47	110.40
3	DA	119	LYS	CB-CA-C	6.53	123.47	110.40
3	DV	119	LYS	CB-CA-C	6.53	123.47	110.40
3	Db	119	LYS	CB-CA-C	6.53	123.47	110.40
3	Di	119	LYS	CB-CA-C	6.53	123.47	110.40
3	Dr	119	LYS	CB-CA-C	6.53	123.47	110.40
3	DR	119	LYS	CB-CA-C	6.53	123.46	110.40
3	EE	119	LYS	CB-CA-C	6.53	123.46	110.40
3	D8	119	LYS	CB-CA-C	6.53	123.46	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	De	119	LYS	CB-CA-C	6.53	123.46	110.40
3	Dq	119	LYS	CB-CA-C	6.53	123.46	110.40
3	DC	119	LYS	CB-CA-C	6.53	123.46	110.40
3	Dh	119	LYS	CB-CA-C	6.53	123.46	110.40
3	D3	119	LYS	CB-CA-C	6.53	123.46	110.40
3	Do	119	LYS	CB-CA-C	6.53	123.45	110.40
3	Dp	119	LYS	CB-CA-C	6.53	123.45	110.40
3	DL	119	LYS	CB-CA-C	6.53	123.45	110.40
3	Dk	119	LYS	CB-CA-C	6.52	123.45	110.40
3	Dl	119	LYS	CB-CA-C	6.52	123.44	110.40
3	D1	119	LYS	CB-CA-C	6.52	123.44	110.40
3	DB	119	LYS	CB-CA-C	6.52	123.44	110.40
3	DM	119	LYS	CB-CA-C	6.52	123.44	110.40
3	D0	119	LYS	CB-CA-C	6.52	123.44	110.40
3	D5	119	LYS	CB-CA-C	6.52	123.44	110.40
3	DS	119	LYS	CB-CA-C	6.52	123.43	110.40
3	Dc	119	LYS	CB-CA-C	6.52	123.44	110.40
3	EB	119	LYS	CB-CA-C	6.52	123.44	110.40
3	DZ	119	LYS	CB-CA-C	6.51	123.43	110.40
3	D6	119	LYS	CB-CA-C	6.51	123.42	110.40
3	D7	119	LYS	CB-CA-C	6.51	123.42	110.40
3	Da	119	LYS	CB-CA-C	6.51	123.42	110.40
3	Dj	119	LYS	CB-CA-C	6.51	123.42	110.40
3	ED	119	LYS	CB-CA-C	6.51	123.42	110.40
3	DN	119	LYS	CB-CA-C	6.51	123.42	110.40
3	Df	119	LYS	CB-CA-C	6.51	123.42	110.40
3	Dg	119	LYS	CB-CA-C	6.51	123.42	110.40
3	Ds	119	LYS	CB-CA-C	6.51	123.42	110.40
3	DD	119	LYS	CB-CA-C	6.51	123.41	110.40
3	DK	119	LYS	CB-CA-C	6.51	123.41	110.40
3	DU	119	LYS	CB-CA-C	6.51	123.42	110.40
3	D2	119	LYS	CB-CA-C	6.50	123.41	110.40
3	DF	119	LYS	CB-CA-C	6.50	123.41	110.40
3	DJ	119	LYS	CB-CA-C	6.50	123.41	110.40
3	DO	119	LYS	CB-CA-C	6.50	123.41	110.40
3	Dm	119	LYS	CB-CA-C	6.50	123.41	110.40
3	Dn	119	LYS	CB-CA-C	6.50	123.41	110.40
3	Dd	119	LYS	CB-CA-C	6.50	123.41	110.40
3	DI	119	LYS	CB-CA-C	6.50	123.39	110.40
3	D9	119	LYS	CB-CA-C	6.49	123.39	110.40
3	DX	119	LYS	CB-CA-C	6.49	123.39	110.40
3	DH	119	LYS	CB-CA-C	6.49	123.38	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DG	119	LYS	CB-CA-C	6.49	123.38	110.40
3	D4	119	LYS	CB-CA-C	6.49	123.37	110.40
1	Af	71	LEU	CA-CB-CG	6.49	130.22	115.30
1	AF	71	LEU	CA-CB-CG	6.48	130.20	115.30
1	Aj	71	LEU	CA-CB-CG	6.47	130.19	115.30
1	AO	71	LEU	CA-CB-CG	6.47	130.18	115.30
1	A8	71	LEU	CA-CB-CG	6.47	130.18	115.30
1	AC	71	LEU	CA-CB-CG	6.47	130.18	115.30
1	AI	71	LEU	CA-CB-CG	6.46	130.17	115.30
1	AU	71	LEU	CA-CB-CG	6.46	130.17	115.30
1	AJ	71	LEU	CA-CB-CG	6.46	130.16	115.30
1	BI	71	LEU	CA-CB-CG	6.46	130.16	115.30
1	BB	71	LEU	CA-CB-CG	6.46	130.16	115.30
1	BH	71	LEU	CA-CB-CG	6.46	130.16	115.30
1	AE	71	LEU	CA-CB-CG	6.46	130.15	115.30
1	Aa	71	LEU	CA-CB-CG	6.46	130.15	115.30
1	Am	71	LEU	CA-CB-CG	6.46	130.15	115.30
1	Ah	71	LEU	CA-CB-CG	6.45	130.14	115.30
1	AG	71	LEU	CA-CB-CG	6.45	130.14	115.30
1	AL	71	LEU	CA-CB-CG	6.45	130.14	115.30
1	AT	71	LEU	CA-CB-CG	6.45	130.14	115.30
1	AQ	71	LEU	CA-CB-CG	6.45	130.13	115.30
1	Ai	71	LEU	CA-CB-CG	6.45	130.13	115.30
1	BG	71	LEU	CA-CB-CG	6.45	130.13	115.30
1	A1	71	LEU	CA-CB-CG	6.45	130.13	115.30
1	A5	71	LEU	CA-CB-CG	6.45	130.13	115.30
1	AM	71	LEU	CA-CB-CG	6.45	130.12	115.30
1	Ad	71	LEU	CA-CB-CG	6.45	130.13	115.30
1	BA	71	LEU	CA-CB-CG	6.45	130.12	115.30
1	A3	71	LEU	CA-CB-CG	6.44	130.12	115.30
1	AN	71	LEU	CA-CB-CG	6.44	130.12	115.30
1	AP	71	LEU	CA-CB-CG	6.44	130.12	115.30
1	AW	71	LEU	CA-CB-CG	6.44	130.12	115.30
1	BE	71	LEU	CA-CB-CG	6.44	130.12	115.30
1	A0	71	LEU	CA-CB-CG	6.44	130.11	115.30
1	AH	71	LEU	CA-CB-CG	6.44	130.11	115.30
1	AR	71	LEU	CA-CB-CG	6.44	130.11	115.30
1	Ao	71	LEU	CA-CB-CG	6.44	130.11	115.30
1	BF	71	LEU	CA-CB-CG	6.44	130.11	115.30
1	A9	71	LEU	CA-CB-CG	6.44	130.11	115.30
1	AA	71	LEU	CA-CB-CG	6.44	130.10	115.30
1	AK	71	LEU	CA-CB-CG	6.44	130.10	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BD	71	LEU	CA-CB-CG	6.44	130.10	115.30
1	A4	71	LEU	CA-CB-CG	6.43	130.10	115.30
1	A7	71	LEU	CA-CB-CG	6.43	130.10	115.30
1	AX	71	LEU	CA-CB-CG	6.43	130.10	115.30
1	An	71	LEU	CA-CB-CG	6.43	130.10	115.30
1	BC	71	LEU	CA-CB-CG	6.43	130.10	115.30
1	A6	71	LEU	CA-CB-CG	6.43	130.09	115.30
1	AZ	71	LEU	CA-CB-CG	6.43	130.09	115.30
1	Ab	71	LEU	CA-CB-CG	6.43	130.09	115.30
1	Al	71	LEU	CA-CB-CG	6.43	130.10	115.30
1	AV	71	LEU	CA-CB-CG	6.43	130.09	115.30
1	AB	71	LEU	CA-CB-CG	6.43	130.09	115.30
1	AY	71	LEU	CA-CB-CG	6.43	130.09	115.30
1	Ac	71	LEU	CA-CB-CG	6.43	130.09	115.30
1	Ak	71	LEU	CA-CB-CG	6.42	130.08	115.30
1	AS	71	LEU	CA-CB-CG	6.42	130.07	115.30
1	Ae	71	LEU	CA-CB-CG	6.42	130.07	115.30
1	A2	71	LEU	CA-CB-CG	6.42	130.06	115.30
1	AD	71	LEU	CA-CB-CG	6.41	130.05	115.30
1	Ag	71	LEU	CA-CB-CG	6.41	130.04	115.30
3	DH	120	PHE	CB-CG-CD2	-6.14	116.50	120.80
1	Ao	70	ARG	N-CA-C	-6.13	94.44	111.00
1	A3	70	ARG	N-CA-C	-6.13	94.46	111.00
1	A2	70	ARG	N-CA-C	-6.13	94.46	111.00
1	AE	70	ARG	N-CA-C	-6.13	94.46	111.00
1	Af	70	ARG	N-CA-C	-6.13	94.46	111.00
1	AU	70	ARG	N-CA-C	-6.12	94.46	111.00
1	AP	70	ARG	N-CA-C	-6.12	94.47	111.00
1	AY	70	ARG	N-CA-C	-6.12	94.47	111.00
1	An	70	ARG	N-CA-C	-6.12	94.47	111.00
1	AF	70	ARG	N-CA-C	-6.12	94.47	111.00
1	AI	70	ARG	N-CA-C	-6.12	94.48	111.00
1	AK	70	ARG	N-CA-C	-6.12	94.49	111.00
1	AV	70	ARG	N-CA-C	-6.12	94.49	111.00
1	Ac	70	ARG	N-CA-C	-6.12	94.49	111.00
1	Am	70	ARG	N-CA-C	-6.12	94.49	111.00
1	AA	70	ARG	N-CA-C	-6.11	94.50	111.00
1	AW	70	ARG	N-CA-C	-6.11	94.49	111.00
1	AS	70	ARG	N-CA-C	-6.11	94.50	111.00
1	Ak	70	ARG	N-CA-C	-6.11	94.50	111.00
1	AL	70	ARG	N-CA-C	-6.11	94.50	111.00
1	AN	70	ARG	N-CA-C	-6.11	94.50	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AQ	70	ARG	N-CA-C	-6.11	94.50	111.00
1	AX	70	ARG	N-CA-C	-6.11	94.50	111.00
1	BI	70	ARG	N-CA-C	-6.11	94.50	111.00
1	Aj	70	ARG	N-CA-C	-6.11	94.51	111.00
1	BD	70	ARG	N-CA-C	-6.11	94.51	111.00
1	AZ	70	ARG	N-CA-C	-6.11	94.51	111.00
1	BB	70	ARG	N-CA-C	-6.11	94.51	111.00
1	BG	70	ARG	N-CA-C	-6.11	94.51	111.00
3	D7	120	PHE	CB-CG-CD2	-6.11	116.53	120.80
1	A6	70	ARG	N-CA-C	-6.11	94.52	111.00
1	AJ	70	ARG	N-CA-C	-6.11	94.52	111.00
1	Ai	70	ARG	N-CA-C	-6.11	94.51	111.00
1	AT	70	ARG	N-CA-C	-6.10	94.52	111.00
1	Aa	70	ARG	N-CA-C	-6.10	94.52	111.00
1	Ab	70	ARG	N-CA-C	-6.10	94.52	111.00
1	A4	70	ARG	N-CA-C	-6.10	94.53	111.00
1	AR	70	ARG	N-CA-C	-6.10	94.52	111.00
1	Ae	70	ARG	N-CA-C	-6.10	94.52	111.00
1	A7	70	ARG	N-CA-C	-6.10	94.53	111.00
1	AH	70	ARG	N-CA-C	-6.10	94.53	111.00
1	AM	70	ARG	N-CA-C	-6.10	94.53	111.00
1	A0	70	ARG	N-CA-C	-6.10	94.53	111.00
1	A1	70	ARG	N-CA-C	-6.10	94.53	111.00
1	A5	70	ARG	N-CA-C	-6.10	94.53	111.00
1	A9	70	ARG	N-CA-C	-6.10	94.53	111.00
1	Ad	70	ARG	N-CA-C	-6.10	94.53	111.00
1	AB	70	ARG	N-CA-C	-6.10	94.54	111.00
1	Al	70	ARG	N-CA-C	-6.10	94.54	111.00
1	BA	70	ARG	N-CA-C	-6.10	94.53	111.00
1	BC	70	ARG	N-CA-C	-6.10	94.54	111.00
1	BE	70	ARG	N-CA-C	-6.10	94.54	111.00
1	BF	70	ARG	N-CA-C	-6.10	94.54	111.00
1	Ag	70	ARG	N-CA-C	-6.10	94.54	111.00
1	AC	70	ARG	N-CA-C	-6.09	94.55	111.00
1	AG	70	ARG	N-CA-C	-6.09	94.55	111.00
1	AD	70	ARG	N-CA-C	-6.09	94.56	111.00
1	Ah	70	ARG	N-CA-C	-6.09	94.56	111.00
1	AO	70	ARG	N-CA-C	-6.09	94.56	111.00
1	BH	70	ARG	N-CA-C	-6.09	94.57	111.00
1	A8	70	ARG	N-CA-C	-6.08	94.57	111.00
3	DY	120	PHE	CB-CG-CD2	-6.08	116.54	120.80
3	EE	120	PHE	CB-CG-CD2	-6.08	116.54	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DB	120	PHE	CB-CG-CD2	-6.08	116.54	120.80
3	D3	120	PHE	CB-CG-CD2	-6.06	116.56	120.80
3	ED	120	PHE	CB-CG-CD2	-6.06	116.56	120.80
3	DJ	120	PHE	CB-CG-CD2	-6.06	116.56	120.80
3	Dh	120	PHE	CB-CG-CD2	-6.05	116.56	120.80
3	DZ	120	PHE	CB-CG-CD2	-6.05	116.57	120.80
3	DX	120	PHE	CB-CG-CD2	-6.05	116.57	120.80
3	D0	120	PHE	CB-CG-CD2	-6.04	116.57	120.80
3	Dp	120	PHE	CB-CG-CD2	-6.03	116.58	120.80
3	Df	120	PHE	CB-CG-CD2	-6.03	116.58	120.80
3	DI	120	PHE	CB-CG-CD2	-6.02	116.58	120.80
3	DE	120	PHE	CB-CG-CD2	-6.01	116.59	120.80
3	DK	120	PHE	CB-CG-CD2	-6.01	116.59	120.80
3	D1	120	PHE	CB-CG-CD2	-6.01	116.59	120.80
3	DP	120	PHE	CB-CG-CD2	-6.01	116.59	120.80
3	EB	120	PHE	CB-CG-CD2	-6.01	116.59	120.80
3	Dr	120	PHE	CB-CG-CD2	-6.01	116.59	120.80
3	DT	120	PHE	CB-CG-CD2	-6.00	116.60	120.80
3	D2	120	PHE	CB-CG-CD2	-6.00	116.60	120.80
3	DM	120	PHE	CB-CG-CD2	-6.00	116.60	120.80
3	Dc	120	PHE	CB-CG-CD2	-5.99	116.61	120.80
3	Dn	120	PHE	CB-CG-CD2	-5.99	116.61	120.80
3	D4	120	PHE	CB-CG-CD2	-5.99	116.61	120.80
3	D8	120	PHE	CB-CG-CD2	-5.99	116.61	120.80
3	DU	120	PHE	CB-CG-CD2	-5.99	116.61	120.80
3	Dg	120	PHE	CB-CG-CD2	-5.99	116.61	120.80
3	Dj	120	PHE	CB-CG-CD2	-5.98	116.61	120.80
3	D5	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	Da	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	EA	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	DA	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	DL	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	Dk	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	Do	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	DR	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	Di	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	D6	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	DC	120	PHE	CB-CG-CD2	-5.97	116.62	120.80
3	DF	120	PHE	CB-CG-CD2	-5.96	116.63	120.80
3	DV	120	PHE	CB-CG-CD2	-5.96	116.63	120.80
3	DW	120	PHE	CB-CG-CD2	-5.96	116.63	120.80
3	D9	120	PHE	CB-CG-CD2	-5.95	116.64	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Db	120	PHE	CB-CG-CD2	-5.95	116.64	120.80
3	Dd	120	PHE	CB-CG-CD2	-5.94	116.64	120.80
3	DQ	120	PHE	CB-CG-CD2	-5.94	116.64	120.80
3	Dq	120	PHE	CB-CG-CD2	-5.94	116.64	120.80
3	DS	120	PHE	CB-CG-CD2	-5.93	116.65	120.80
3	Dm	120	PHE	CB-CG-CD2	-5.93	116.65	120.80
3	DO	120	PHE	CB-CG-CD2	-5.93	116.65	120.80
3	Dl	120	PHE	CB-CG-CD2	-5.93	116.65	120.80
3	DD	120	PHE	CB-CG-CD2	-5.93	116.65	120.80
3	DN	120	PHE	CB-CG-CD2	-5.93	116.65	120.80
3	EC	120	PHE	CB-CG-CD2	-5.93	116.65	120.80
3	DG	120	PHE	CB-CG-CD2	-5.92	116.65	120.80
3	De	120	PHE	CB-CG-CD2	-5.92	116.66	120.80
3	Ds	120	PHE	CB-CG-CD2	-5.91	116.66	120.80
3	DX	119	LYS	CB-CG-CD	5.85	126.81	111.60
3	D0	119	LYS	CB-CG-CD	5.84	126.79	111.60
3	DG	119	LYS	CB-CG-CD	5.84	126.79	111.60
3	DO	119	LYS	CB-CG-CD	5.84	126.79	111.60
3	Db	119	LYS	CB-CG-CD	5.84	126.78	111.60
3	Dp	119	LYS	CB-CG-CD	5.84	126.77	111.60
3	Dq	119	LYS	CB-CG-CD	5.84	126.77	111.60
3	DS	119	LYS	CB-CG-CD	5.83	126.76	111.60
3	Dj	119	LYS	CB-CG-CD	5.83	126.76	111.60
3	D5	119	LYS	CB-CG-CD	5.83	126.76	111.60
3	DP	119	LYS	CB-CG-CD	5.83	126.75	111.60
3	De	119	LYS	CB-CG-CD	5.83	126.75	111.60
3	Dk	119	LYS	CB-CG-CD	5.83	126.75	111.60
3	Do	119	LYS	CB-CG-CD	5.83	126.76	111.60
3	D4	119	LYS	CB-CG-CD	5.83	126.75	111.60
3	DJ	119	LYS	CB-CG-CD	5.83	126.75	111.60
3	DQ	119	LYS	CB-CG-CD	5.83	126.75	111.60
3	DC	119	LYS	CB-CG-CD	5.83	126.75	111.60
3	DU	119	LYS	CB-CG-CD	5.82	126.74	111.60
3	Dc	119	LYS	CB-CG-CD	5.82	126.74	111.60
3	EE	119	LYS	CB-CG-CD	5.82	126.74	111.60
3	D7	119	LYS	CB-CG-CD	5.82	126.74	111.60
3	DN	119	LYS	CB-CG-CD	5.82	126.74	111.60
3	D6	119	LYS	CB-CG-CD	5.82	126.73	111.60
3	Df	119	LYS	CB-CG-CD	5.82	126.73	111.60
3	Dn	119	LYS	CB-CG-CD	5.82	126.73	111.60
3	EA	119	LYS	CB-CG-CD	5.82	126.72	111.60
3	DD	119	LYS	CB-CG-CD	5.82	126.72	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DE	119	LYS	CB-CG-CD	5.82	126.72	111.60
3	DK	119	LYS	CB-CG-CD	5.82	126.72	111.60
3	DT	119	LYS	CB-CG-CD	5.82	126.72	111.60
3	D3	119	LYS	CB-CG-CD	5.81	126.71	111.60
3	Dl	119	LYS	CB-CG-CD	5.81	126.71	111.60
3	Dm	119	LYS	CB-CG-CD	5.81	126.71	111.60
3	Ds	119	LYS	CB-CG-CD	5.81	126.71	111.60
3	D1	119	LYS	CB-CG-CD	5.81	126.71	111.60
3	DV	119	LYS	CB-CG-CD	5.81	126.71	111.60
3	Dd	119	LYS	CB-CG-CD	5.81	126.71	111.60
3	Dh	119	LYS	CB-CG-CD	5.81	126.71	111.60
3	D9	119	LYS	CB-CG-CD	5.81	126.70	111.60
3	DA	119	LYS	CB-CG-CD	5.81	126.71	111.60
3	DB	119	LYS	CB-CG-CD	5.81	126.70	111.60
3	DH	119	LYS	CB-CG-CD	5.81	126.71	111.60
3	DY	119	LYS	CB-CG-CD	5.81	126.70	111.60
3	DM	119	LYS	CB-CG-CD	5.81	126.70	111.60
3	DW	119	LYS	CB-CG-CD	5.81	126.70	111.60
3	ED	119	LYS	CB-CG-CD	5.81	126.70	111.60
3	DL	119	LYS	CB-CG-CD	5.81	126.70	111.60
3	DZ	119	LYS	CB-CG-CD	5.81	126.69	111.60
3	Dr	119	LYS	CB-CG-CD	5.81	126.69	111.60
3	D2	119	LYS	CB-CG-CD	5.80	126.69	111.60
3	DF	119	LYS	CB-CG-CD	5.80	126.69	111.60
3	DR	119	LYS	CB-CG-CD	5.80	126.69	111.60
3	Dg	119	LYS	CB-CG-CD	5.80	126.69	111.60
3	Di	119	LYS	CB-CG-CD	5.80	126.69	111.60
3	EC	119	LYS	CB-CG-CD	5.80	126.69	111.60
3	Da	119	LYS	CB-CG-CD	5.80	126.68	111.60
3	EB	119	LYS	CB-CG-CD	5.80	126.68	111.60
3	DI	119	LYS	CB-CG-CD	5.80	126.68	111.60
3	D8	119	LYS	CB-CG-CD	5.79	126.66	111.60
1	Am	18	ALA	N-CA-C	5.56	126.02	111.00
1	Ab	18	ALA	N-CA-C	5.56	126.01	111.00
1	Ad	18	ALA	N-CA-C	5.56	126.00	111.00
1	BE	18	ALA	N-CA-C	5.56	126.00	111.00
1	BI	18	ALA	N-CA-C	5.55	125.99	111.00
1	AR	18	ALA	N-CA-C	5.55	125.99	111.00
3	DX	119	LYS	CA-C-N	5.55	129.41	117.20
3	DZ	119	LYS	CA-C-N	5.55	129.41	117.20
3	D1	119	LYS	CA-C-N	5.55	129.41	117.20
1	A1	18	ALA	N-CA-C	5.55	125.98	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ai	18	ALA	N-CA-C	5.55	125.98	111.00
3	DE	119	LYS	CA-C-N	5.55	129.41	117.20
1	AC	18	ALA	N-CA-C	5.55	125.98	111.00
1	Ag	18	ALA	N-CA-C	5.55	125.98	111.00
3	D4	119	LYS	CA-C-N	5.54	129.40	117.20
1	AD	18	ALA	N-CA-C	5.54	125.97	111.00
1	AS	18	ALA	N-CA-C	5.54	125.97	111.00
3	Dq	119	LYS	CA-C-N	5.54	129.39	117.20
3	EE	119	LYS	CA-C-N	5.54	129.39	117.20
1	AU	18	ALA	N-CA-C	5.54	125.96	111.00
1	AY	18	ALA	N-CA-C	5.54	125.96	111.00
1	BC	18	ALA	N-CA-C	5.54	125.96	111.00
3	DV	119	LYS	CA-C-N	5.54	129.39	117.20
1	Ac	18	ALA	N-CA-C	5.54	125.95	111.00
1	Af	18	ALA	N-CA-C	5.54	125.95	111.00
1	Al	18	ALA	N-CA-C	5.54	125.95	111.00
1	An	18	ALA	N-CA-C	5.54	125.96	111.00
1	BG	18	ALA	N-CA-C	5.54	125.95	111.00
3	D3	119	LYS	CA-C-N	5.54	129.38	117.20
3	D6	119	LYS	CA-C-N	5.54	129.38	117.20
3	DI	119	LYS	CA-C-N	5.54	129.39	117.20
1	AI	18	ALA	N-CA-C	5.54	125.95	111.00
1	BH	18	ALA	N-CA-C	5.54	125.95	111.00
3	Dm	119	LYS	CA-C-N	5.54	129.38	117.20
1	AM	18	ALA	N-CA-C	5.54	125.94	111.00
1	AX	18	ALA	N-CA-C	5.54	125.95	111.00
3	DA	119	LYS	CA-C-N	5.54	129.38	117.20
3	DB	119	LYS	CA-C-N	5.54	129.38	117.20
3	DK	119	LYS	CA-C-N	5.54	129.38	117.20
3	Dc	119	LYS	CA-C-N	5.54	129.38	117.20
1	A2	18	ALA	N-CA-C	5.53	125.94	111.00
1	A8	18	ALA	N-CA-C	5.53	125.94	111.00
1	AH	18	ALA	N-CA-C	5.53	125.94	111.00
1	AJ	18	ALA	N-CA-C	5.53	125.94	111.00
3	DG	119	LYS	CA-C-N	5.53	129.38	117.20
1	AG	18	ALA	N-CA-C	5.53	125.94	111.00
2	CM	62	TYR	N-CA-C	-5.53	96.06	111.00
2	CP	62	TYR	N-CA-C	-5.53	96.06	111.00
1	A6	18	ALA	N-CA-C	5.53	125.93	111.00
1	Aj	18	ALA	N-CA-C	5.53	125.94	111.00
1	BA	18	ALA	N-CA-C	5.53	125.93	111.00
1	BF	18	ALA	N-CA-C	5.53	125.93	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C5	62	TYR	N-CA-C	-5.53	96.07	111.00
3	DH	119	LYS	CA-C-N	5.53	129.37	117.20
3	Dh	119	LYS	CA-C-N	5.53	129.37	117.20
3	DJ	119	LYS	CA-C-N	5.53	129.37	117.20
3	Ds	119	LYS	CA-C-N	5.53	129.36	117.20
1	A0	18	ALA	N-CA-C	5.53	125.92	111.00
1	A5	18	ALA	N-CA-C	5.53	125.93	111.00
1	A7	18	ALA	N-CA-C	5.53	125.92	111.00
1	AQ	18	ALA	N-CA-C	5.53	125.93	111.00
1	AV	18	ALA	N-CA-C	5.53	125.92	111.00
1	AZ	18	ALA	N-CA-C	5.53	125.92	111.00
3	DN	119	LYS	CA-C-N	5.53	129.36	117.20
3	Dj	119	LYS	CA-C-N	5.53	129.36	117.20
1	A4	18	ALA	N-CA-C	5.53	125.92	111.00
1	AF	18	ALA	N-CA-C	5.53	125.92	111.00
1	AP	18	ALA	N-CA-C	5.53	125.92	111.00
1	AW	18	ALA	N-CA-C	5.53	125.92	111.00
1	BB	18	ALA	N-CA-C	5.53	125.92	111.00
3	DM	119	LYS	CA-C-N	5.53	129.35	117.20
1	AO	18	ALA	N-CA-C	5.52	125.91	111.00
2	C2	62	TYR	N-CA-C	-5.52	96.09	111.00
2	C6	62	TYR	N-CA-C	-5.52	96.08	111.00
3	DW	119	LYS	CA-C-N	5.52	129.35	117.20
1	Aa	18	ALA	N-CA-C	5.52	125.91	111.00
1	BD	18	ALA	N-CA-C	5.52	125.91	111.00
2	C4	62	TYR	N-CA-C	-5.52	96.09	111.00
2	CQ	62	TYR	N-CA-C	-5.52	96.09	111.00
3	DL	119	LYS	CA-C-N	5.52	129.35	117.20
3	Dk	119	LYS	CA-C-N	5.52	129.35	117.20
3	Dn	119	LYS	CA-C-N	5.52	129.35	117.20
3	EB	119	LYS	CA-C-N	5.52	129.35	117.20
3	Do	119	LYS	CA-C-N	5.52	129.34	117.20
1	AT	18	ALA	N-CA-C	5.52	125.91	111.00
1	Ak	18	ALA	N-CA-C	5.52	125.90	111.00
2	C7	62	TYR	N-CA-C	-5.52	96.10	111.00
2	C8	62	TYR	N-CA-C	-5.52	96.10	111.00
2	CV	62	TYR	N-CA-C	-5.52	96.10	111.00
2	Ck	62	TYR	N-CA-C	-5.52	96.10	111.00
3	D9	119	LYS	CA-C-N	5.52	129.34	117.20
3	EA	119	LYS	CA-C-N	5.52	129.34	117.20
1	AA	18	ALA	N-CA-C	5.52	125.90	111.00
1	AL	18	ALA	N-CA-C	5.52	125.90	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ct	62	TYR	N-CA-C	-5.52	96.10	111.00
3	Df	119	LYS	CA-C-N	5.52	129.34	117.20
3	Dl	119	LYS	CA-C-N	5.52	129.34	117.20
1	AB	18	ALA	N-CA-C	5.52	125.89	111.00
1	AN	18	ALA	N-CA-C	5.52	125.89	111.00
3	D0	119	LYS	CA-C-N	5.52	129.34	117.20
3	D2	119	LYS	CA-C-N	5.52	129.34	117.20
3	De	119	LYS	CA-C-N	5.52	129.34	117.20
1	AE	18	ALA	N-CA-C	5.51	125.89	111.00
2	Co	62	TYR	N-CA-C	-5.51	96.11	111.00
3	D7	119	LYS	CA-C-N	5.51	129.33	117.20
3	DQ	119	LYS	CA-C-N	5.51	129.33	117.20
3	Da	119	LYS	CA-C-N	5.51	129.33	117.20
3	Dd	119	LYS	CA-C-N	5.51	129.33	117.20
3	Di	119	LYS	CA-C-N	5.51	129.33	117.20
3	Dr	119	LYS	CA-C-N	5.51	129.33	117.20
1	Ao	18	ALA	N-CA-C	5.51	125.89	111.00
2	CE	62	TYR	N-CA-C	-5.51	96.11	111.00
2	CW	62	TYR	N-CA-C	-5.51	96.11	111.00
1	A3	18	ALA	N-CA-C	5.51	125.88	111.00
1	Ae	18	ALA	N-CA-C	5.51	125.88	111.00
2	CA	62	TYR	N-CA-C	-5.51	96.12	111.00
2	CC	62	TYR	N-CA-C	-5.51	96.12	111.00
2	CD	62	TYR	N-CA-C	-5.51	96.12	111.00
2	CX	62	TYR	N-CA-C	-5.51	96.12	111.00
2	Cl	62	TYR	N-CA-C	-5.51	96.12	111.00
2	Cu	62	TYR	N-CA-C	-5.51	96.12	111.00
2	Cx	62	TYR	N-CA-C	-5.51	96.12	111.00
3	DD	119	LYS	CA-C-N	5.51	129.32	117.20
3	Dg	119	LYS	CA-C-N	5.51	129.32	117.20
1	A9	18	ALA	N-CA-C	5.51	125.88	111.00
1	AK	18	ALA	N-CA-C	5.51	125.87	111.00
2	CI	62	TYR	N-CA-C	-5.51	96.12	111.00
2	CJ	62	TYR	N-CA-C	-5.51	96.13	111.00
2	Cc	62	TYR	N-CA-C	-5.51	96.13	111.00
2	Ci	62	TYR	N-CA-C	-5.51	96.13	111.00
2	Cm	62	TYR	N-CA-C	-5.51	96.13	111.00
2	CR	62	TYR	N-CA-C	-5.51	96.13	111.00
2	CS	62	TYR	N-CA-C	-5.51	96.13	111.00
2	Cf	62	TYR	N-CA-C	-5.51	96.13	111.00
2	Cw	62	TYR	N-CA-C	-5.51	96.13	111.00
3	DP	119	LYS	CA-C-N	5.51	129.31	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DS	119	LYS	CA-C-N	5.51	129.31	117.20
2	C0	62	TYR	N-CA-C	-5.50	96.14	111.00
2	Ce	62	TYR	N-CA-C	-5.50	96.14	111.00
3	Db	119	LYS	CA-C-N	5.50	129.31	117.20
2	Cd	62	TYR	N-CA-C	-5.50	96.14	111.00
3	DT	119	LYS	CA-C-N	5.50	129.31	117.20
1	Ah	18	ALA	N-CA-C	5.50	125.85	111.00
2	CN	62	TYR	N-CA-C	-5.50	96.14	111.00
2	CO	62	TYR	N-CA-C	-5.50	96.14	111.00
2	Ca	62	TYR	N-CA-C	-5.50	96.15	111.00
2	Cq	62	TYR	N-CA-C	-5.50	96.14	111.00
3	D5	119	LYS	CA-C-N	5.50	129.30	117.20
3	DC	119	LYS	CA-C-N	5.50	129.30	117.20
3	DU	119	LYS	CA-C-N	5.50	129.30	117.20
2	CB	62	TYR	N-CA-C	-5.50	96.15	111.00
3	DO	119	LYS	CA-C-N	5.50	129.30	117.20
2	CG	62	TYR	N-CA-C	-5.50	96.15	111.00
2	CY	62	TYR	N-CA-C	-5.50	96.16	111.00
2	Cb	62	TYR	N-CA-C	-5.50	96.16	111.00
2	Cg	62	TYR	N-CA-C	-5.50	96.15	111.00
2	Cv	62	TYR	N-CA-C	-5.50	96.16	111.00
3	DF	119	LYS	CA-C-N	5.50	129.30	117.20
3	EC	119	LYS	CA-C-N	5.50	129.30	117.20
2	CK	62	TYR	N-CA-C	-5.50	96.16	111.00
2	Ch	62	TYR	N-CA-C	-5.50	96.16	111.00
2	Cr	62	TYR	N-CA-C	-5.50	96.16	111.00
3	Dp	119	LYS	CA-C-N	5.50	129.29	117.20
2	CF	62	TYR	N-CA-C	-5.50	96.16	111.00
2	C3	62	TYR	N-CA-C	-5.49	96.17	111.00
2	CU	62	TYR	N-CA-C	-5.49	96.17	111.00
2	Cn	62	TYR	N-CA-C	-5.49	96.17	111.00
3	D8	119	LYS	CA-C-N	5.49	129.29	117.20
3	DY	119	LYS	CA-C-N	5.49	129.29	117.20
2	C9	62	TYR	N-CA-C	-5.49	96.18	111.00
2	CT	62	TYR	N-CA-C	-5.49	96.18	111.00
2	Cp	62	TYR	N-CA-C	-5.49	96.17	111.00
2	C1	62	TYR	N-CA-C	-5.49	96.18	111.00
2	CH	62	TYR	N-CA-C	-5.49	96.18	111.00
2	CL	62	TYR	N-CA-C	-5.49	96.18	111.00
2	Cj	62	TYR	N-CA-C	-5.49	96.18	111.00
3	DR	119	LYS	CA-C-N	5.49	129.28	117.20
2	Cs	62	TYR	N-CA-C	-5.49	96.19	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CZ	62	TYR	N-CA-C	-5.48	96.19	111.00
3	ED	119	LYS	CA-C-N	5.48	129.26	117.20
1	BG	207	CYS	N-CA-C	5.44	125.70	111.00
1	An	207	CYS	N-CA-C	5.44	125.69	111.00
1	Af	207	CYS	N-CA-C	5.43	125.67	111.00
1	AI	207	CYS	N-CA-C	5.43	125.66	111.00
1	Aj	207	CYS	N-CA-C	5.43	125.65	111.00
1	BE	207	CYS	N-CA-C	5.43	125.65	111.00
1	AP	207	CYS	N-CA-C	5.42	125.65	111.00
1	AS	207	CYS	N-CA-C	5.42	125.65	111.00
1	A4	207	CYS	N-CA-C	5.42	125.64	111.00
1	AK	207	CYS	N-CA-C	5.42	125.64	111.00
1	AT	207	CYS	N-CA-C	5.42	125.63	111.00
1	AQ	207	CYS	N-CA-C	5.42	125.63	111.00
1	AR	207	CYS	N-CA-C	5.42	125.62	111.00
1	Aa	207	CYS	N-CA-C	5.42	125.62	111.00
1	AD	207	CYS	N-CA-C	5.42	125.62	111.00
1	AJ	207	CYS	N-CA-C	5.41	125.62	111.00
1	Ab	207	CYS	N-CA-C	5.41	125.62	111.00
1	Al	207	CYS	N-CA-C	5.41	125.62	111.00
1	AB	207	CYS	N-CA-C	5.41	125.61	111.00
1	A6	207	CYS	N-CA-C	5.41	125.61	111.00
1	AF	207	CYS	N-CA-C	5.41	125.61	111.00
1	Ae	207	CYS	N-CA-C	5.41	125.61	111.00
1	A2	207	CYS	N-CA-C	5.41	125.60	111.00
1	AG	207	CYS	N-CA-C	5.41	125.61	111.00
1	AW	207	CYS	N-CA-C	5.41	125.60	111.00
1	A5	207	CYS	N-CA-C	5.41	125.60	111.00
1	Ao	207	CYS	N-CA-C	5.41	125.60	111.00
1	BF	207	CYS	N-CA-C	5.41	125.60	111.00
1	A3	207	CYS	N-CA-C	5.41	125.59	111.00
1	A7	207	CYS	N-CA-C	5.41	125.60	111.00
1	A8	207	CYS	N-CA-C	5.41	125.59	111.00
1	AN	207	CYS	N-CA-C	5.41	125.59	111.00
1	AO	207	CYS	N-CA-C	5.41	125.59	111.00
1	Ac	207	CYS	N-CA-C	5.41	125.60	111.00
1	BA	207	CYS	N-CA-C	5.40	125.59	111.00
1	BD	207	CYS	N-CA-C	5.40	125.59	111.00
1	A9	207	CYS	N-CA-C	5.40	125.59	111.00
1	AX	207	CYS	N-CA-C	5.40	125.58	111.00
1	Ad	207	CYS	N-CA-C	5.40	125.59	111.00
1	BB	207	CYS	N-CA-C	5.40	125.59	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AM	207	CYS	N-CA-C	5.40	125.58	111.00
1	AY	207	CYS	N-CA-C	5.40	125.58	111.00
1	AK	207	CYS	N-CA-C	5.40	125.58	111.00
1	AL	207	CYS	N-CA-C	5.40	125.58	111.00
1	AV	207	CYS	N-CA-C	5.40	125.57	111.00
1	AA	207	CYS	N-CA-C	5.40	125.57	111.00
1	AC	207	CYS	N-CA-C	5.40	125.57	111.00
1	AE	207	CYS	N-CA-C	5.40	125.57	111.00
1	AU	207	CYS	N-CA-C	5.39	125.56	111.00
1	AZ	207	CYS	N-CA-C	5.39	125.56	111.00
1	Ai	207	CYS	N-CA-C	5.39	125.57	111.00
1	A0	207	CYS	N-CA-C	5.39	125.56	111.00
1	BC	207	CYS	N-CA-C	5.39	125.55	111.00
1	Am	207	CYS	N-CA-C	5.39	125.54	111.00
1	Ag	207	CYS	N-CA-C	5.38	125.54	111.00
1	BI	207	CYS	N-CA-C	5.38	125.53	111.00
1	A1	207	CYS	N-CA-C	5.38	125.53	111.00
1	Ah	207	CYS	N-CA-C	5.38	125.52	111.00
1	BH	207	CYS	N-CA-C	5.38	125.52	111.00
1	AH	207	CYS	N-CA-C	5.37	125.50	111.00
1	Ag	139	SER	C-N-CD	-5.30	108.94	120.60
1	BE	139	SER	C-N-CD	-5.28	108.98	120.60
2	CZ	65	LYS	N-CA-C	-5.28	96.75	111.00
1	A7	139	SER	C-N-CD	-5.28	109.00	120.60
1	A0	139	SER	C-N-CD	-5.27	109.00	120.60
2	CC	65	LYS	N-CA-C	-5.27	96.76	111.00
1	AV	139	SER	C-N-CD	-5.27	109.00	120.60
2	CT	65	LYS	N-CA-C	-5.27	96.76	111.00
2	Cp	65	LYS	N-CA-C	-5.27	96.77	111.00
1	AP	139	SER	C-N-CD	-5.27	109.01	120.60
1	BG	139	SER	C-N-CD	-5.27	109.01	120.60
2	C7	65	LYS	N-CA-C	-5.27	96.77	111.00
2	CA	65	LYS	N-CA-C	-5.27	96.77	111.00
2	CJ	65	LYS	N-CA-C	-5.27	96.77	111.00
2	CS	65	LYS	N-CA-C	-5.27	96.78	111.00
1	AG	139	SER	C-N-CD	-5.27	109.01	120.60
2	C2	65	LYS	N-CA-C	-5.27	96.78	111.00
2	C3	65	LYS	N-CA-C	-5.27	96.78	111.00
2	CD	65	LYS	N-CA-C	-5.27	96.78	111.00
2	CE	65	LYS	N-CA-C	-5.27	96.78	111.00
2	Cf	65	LYS	N-CA-C	-5.27	96.78	111.00
2	Cs	65	LYS	N-CA-C	-5.27	96.78	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AU	139	SER	C-N-CD	-5.27	109.01	120.60
1	BF	139	SER	C-N-CD	-5.26	109.02	120.60
2	C9	65	LYS	N-CA-C	-5.26	96.79	111.00
2	CW	65	LYS	N-CA-C	-5.26	96.78	111.00
2	Ci	65	LYS	N-CA-C	-5.26	96.78	111.00
1	AI	139	SER	C-N-CD	-5.26	109.02	120.60
2	Ck	65	LYS	N-CA-C	-5.26	96.79	111.00
1	A4	139	SER	C-N-CD	-5.26	109.02	120.60
2	CG	65	LYS	N-CA-C	-5.26	96.80	111.00
2	CH	65	LYS	N-CA-C	-5.26	96.80	111.00
2	CO	65	LYS	N-CA-C	-5.26	96.80	111.00
2	Cg	65	LYS	N-CA-C	-5.26	96.79	111.00
2	Cv	65	LYS	N-CA-C	-5.26	96.79	111.00
1	A6	139	SER	C-N-CD	-5.26	109.03	120.60
1	AB	139	SER	C-N-CD	-5.26	109.03	120.60
1	AN	139	SER	C-N-CD	-5.26	109.03	120.60
2	Co	65	LYS	N-CA-C	-5.26	96.80	111.00
2	Cx	65	LYS	N-CA-C	-5.26	96.80	111.00
1	AJ	139	SER	C-N-CD	-5.26	109.03	120.60
1	AK	139	SER	C-N-CD	-5.26	109.03	120.60
2	C5	65	LYS	N-CA-C	-5.26	96.80	111.00
2	CM	65	LYS	N-CA-C	-5.26	96.80	111.00
1	AD	139	SER	C-N-CD	-5.26	109.03	120.60
1	Al	139	SER	C-N-CD	-5.26	109.03	120.60
2	C0	65	LYS	N-CA-C	-5.26	96.81	111.00
2	CX	65	LYS	N-CA-C	-5.26	96.81	111.00
2	Ct	65	LYS	N-CA-C	-5.26	96.81	111.00
1	AX	139	SER	C-N-CD	-5.25	109.04	120.60
1	Aj	139	SER	C-N-CD	-5.25	109.04	120.60
1	BC	139	SER	C-N-CD	-5.25	109.04	120.60
2	C1	65	LYS	N-CA-C	-5.25	96.81	111.00
2	CF	65	LYS	N-CA-C	-5.25	96.81	111.00
2	CI	65	LYS	N-CA-C	-5.25	96.81	111.00
2	CU	65	LYS	N-CA-C	-5.25	96.81	111.00
2	Cb	65	LYS	N-CA-C	-5.25	96.81	111.00
1	A8	139	SER	C-N-CD	-5.25	109.04	120.60
1	AA	139	SER	C-N-CD	-5.25	109.04	120.60
1	AO	139	SER	C-N-CD	-5.25	109.04	120.60
1	Ak	139	SER	C-N-CD	-5.25	109.04	120.60
2	C6	65	LYS	N-CA-C	-5.25	96.81	111.00
2	CK	65	LYS	N-CA-C	-5.25	96.82	111.00
2	Cm	65	LYS	N-CA-C	-5.25	96.82	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AH	139	SER	C-N-CD	-5.25	109.05	120.60
1	AT	139	SER	C-N-CD	-5.25	109.05	120.60
1	BD	139	SER	C-N-CD	-5.25	109.05	120.60
2	CR	65	LYS	N-CA-C	-5.25	96.82	111.00
2	Cc	65	LYS	N-CA-C	-5.25	96.82	111.00
2	Cr	65	LYS	N-CA-C	-5.25	96.82	111.00
2	Cw	65	LYS	N-CA-C	-5.25	96.82	111.00
1	AY	139	SER	C-N-CD	-5.25	109.05	120.60
1	BA	139	SER	C-N-CD	-5.25	109.05	120.60
2	C4	65	LYS	N-CA-C	-5.25	96.83	111.00
2	C8	65	LYS	N-CA-C	-5.25	96.83	111.00
2	CB	65	LYS	N-CA-C	-5.25	96.83	111.00
1	AS	139	SER	C-N-CD	-5.25	109.05	120.60
1	Ac	139	SER	C-N-CD	-5.25	109.06	120.60
2	CL	65	LYS	N-CA-C	-5.25	96.83	111.00
2	CV	65	LYS	N-CA-C	-5.25	96.83	111.00
2	Cd	65	LYS	N-CA-C	-5.25	96.83	111.00
1	AE	139	SER	C-N-CD	-5.25	109.06	120.60
1	AR	139	SER	C-N-CD	-5.25	109.06	120.60
1	BB	139	SER	C-N-CD	-5.25	109.06	120.60
2	CQ	65	LYS	N-CA-C	-5.25	96.83	111.00
2	Cl	65	LYS	N-CA-C	-5.25	96.83	111.00
2	Cq	65	LYS	N-CA-C	-5.25	96.84	111.00
1	A3	139	SER	C-N-CD	-5.25	109.06	120.60
1	An	139	SER	C-N-CD	-5.25	109.06	120.60
1	Ao	139	SER	C-N-CD	-5.25	109.06	120.60
2	CP	65	LYS	N-CA-C	-5.25	96.84	111.00
2	Cj	65	LYS	N-CA-C	-5.25	96.84	111.00
1	Ad	139	SER	C-N-CD	-5.24	109.06	120.60
2	CN	65	LYS	N-CA-C	-5.24	96.84	111.00
2	Cu	65	LYS	N-CA-C	-5.24	96.84	111.00
1	AW	139	SER	C-N-CD	-5.24	109.07	120.60
2	Ch	65	LYS	N-CA-C	-5.24	96.85	111.00
1	BI	139	SER	C-N-CD	-5.24	109.07	120.60
2	Ce	65	LYS	N-CA-C	-5.24	96.85	111.00
2	Cn	65	LYS	N-CA-C	-5.24	96.85	111.00
1	AC	139	SER	C-N-CD	-5.24	109.08	120.60
1	AQ	139	SER	C-N-CD	-5.24	109.08	120.60
1	AM	139	SER	C-N-CD	-5.24	109.08	120.60
1	AF	139	SER	C-N-CD	-5.24	109.08	120.60
1	Af	139	SER	C-N-CD	-5.24	109.08	120.60
1	Am	139	SER	C-N-CD	-5.24	109.08	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CY	65	LYS	N-CA-C	-5.24	96.86	111.00
2	Ca	65	LYS	N-CA-C	-5.24	96.86	111.00
1	Ae	139	SER	C-N-CD	-5.23	109.08	120.60
1	AZ	139	SER	C-N-CD	-5.23	109.09	120.60
1	A5	139	SER	C-N-CD	-5.23	109.09	120.60
1	A9	139	SER	C-N-CD	-5.23	109.09	120.60
1	Aa	139	SER	C-N-CD	-5.23	109.09	120.60
1	BH	139	SER	C-N-CD	-5.23	109.10	120.60
1	Ah	139	SER	C-N-CD	-5.23	109.10	120.60
1	Ai	139	SER	C-N-CD	-5.23	109.10	120.60
1	AL	139	SER	C-N-CD	-5.23	109.10	120.60
1	Ab	139	SER	C-N-CD	-5.22	109.11	120.60
1	A2	139	SER	C-N-CD	-5.21	109.14	120.60
1	A1	139	SER	C-N-CD	-5.21	109.15	120.60
2	Ct	163	LEU	CA-CB-CG	5.15	127.14	115.30
2	CR	163	LEU	CA-CB-CG	5.15	127.14	115.30
2	CC	163	LEU	CA-CB-CG	5.15	127.14	115.30
2	CQ	163	LEU	CA-CB-CG	5.15	127.14	115.30
2	CT	163	LEU	CA-CB-CG	5.15	127.14	115.30
2	CJ	163	LEU	CA-CB-CG	5.15	127.14	115.30
2	Cc	163	LEU	CA-CB-CG	5.15	127.14	115.30
2	CX	163	LEU	CA-CB-CG	5.14	127.13	115.30
2	CK	163	LEU	CA-CB-CG	5.14	127.13	115.30
2	Cn	163	LEU	CA-CB-CG	5.14	127.13	115.30
2	Ch	163	LEU	CA-CB-CG	5.14	127.12	115.30
2	CF	163	LEU	CA-CB-CG	5.14	127.12	115.30
2	CO	163	LEU	CA-CB-CG	5.14	127.12	115.30
2	Cl	163	LEU	CA-CB-CG	5.14	127.12	115.30
2	Cs	163	LEU	CA-CB-CG	5.14	127.12	115.30
2	C4	163	LEU	CA-CB-CG	5.14	127.12	115.30
2	CV	163	LEU	CA-CB-CG	5.14	127.11	115.30
2	Cv	163	LEU	CA-CB-CG	5.14	127.12	115.30
2	Cp	163	LEU	CA-CB-CG	5.13	127.11	115.30
2	CP	163	LEU	CA-CB-CG	5.13	127.10	115.30
2	Cb	163	LEU	CA-CB-CG	5.13	127.10	115.30
2	Ck	163	LEU	CA-CB-CG	5.13	127.10	115.30
2	Cu	163	LEU	CA-CB-CG	5.13	127.10	115.30
2	C9	163	LEU	CA-CB-CG	5.13	127.10	115.30
2	C2	163	LEU	CA-CB-CG	5.13	127.09	115.30
2	C5	163	LEU	CA-CB-CG	5.13	127.10	115.30
2	Cx	163	LEU	CA-CB-CG	5.13	127.09	115.30
2	CA	163	LEU	CA-CB-CG	5.12	127.09	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CL	163	LEU	CA-CB-CG	5.12	127.09	115.30
2	C1	163	LEU	CA-CB-CG	5.12	127.08	115.30
2	CU	163	LEU	CA-CB-CG	5.12	127.08	115.30
2	CY	163	LEU	CA-CB-CG	5.12	127.08	115.30
2	CZ	163	LEU	CA-CB-CG	5.12	127.08	115.30
2	Ce	163	LEU	CA-CB-CG	5.12	127.09	115.30
2	Cj	163	LEU	CA-CB-CG	5.12	127.09	115.30
2	Cm	163	LEU	CA-CB-CG	5.12	127.08	115.30
2	Cw	163	LEU	CA-CB-CG	5.12	127.08	115.30
2	Cr	163	LEU	CA-CB-CG	5.12	127.08	115.30
2	Cf	163	LEU	CA-CB-CG	5.12	127.08	115.30
2	Ci	163	LEU	CA-CB-CG	5.12	127.08	115.30
2	C7	163	LEU	CA-CB-CG	5.12	127.07	115.30
2	Cg	163	LEU	CA-CB-CG	5.12	127.07	115.30
2	C6	163	LEU	CA-CB-CG	5.12	127.07	115.30
2	CD	163	LEU	CA-CB-CG	5.12	127.06	115.30
2	CE	163	LEU	CA-CB-CG	5.12	127.07	115.30
2	CG	163	LEU	CA-CB-CG	5.11	127.06	115.30
2	CN	163	LEU	CA-CB-CG	5.11	127.06	115.30
2	CS	163	LEU	CA-CB-CG	5.11	127.06	115.30
2	CW	163	LEU	CA-CB-CG	5.11	127.06	115.30
2	CH	163	LEU	CA-CB-CG	5.11	127.06	115.30
2	CM	163	LEU	CA-CB-CG	5.11	127.06	115.30
2	Co	163	LEU	CA-CB-CG	5.11	127.06	115.30
2	C8	163	LEU	CA-CB-CG	5.11	127.06	115.30
2	Ca	163	LEU	CA-CB-CG	5.11	127.05	115.30
2	C0	163	LEU	CA-CB-CG	5.11	127.05	115.30
2	CB	163	LEU	CA-CB-CG	5.11	127.05	115.30
2	Cd	163	LEU	CA-CB-CG	5.11	127.04	115.30
2	Cq	163	LEU	CA-CB-CG	5.10	127.04	115.30
2	CI	163	LEU	CA-CB-CG	5.10	127.04	115.30
2	C3	163	LEU	CA-CB-CG	5.10	127.03	115.30
2	CM	109	ASP	N-CA-C	-5.08	97.28	111.00
1	AH	35	ASP	CB-CG-OD1	5.07	122.86	118.30
2	Cm	109	ASP	N-CA-C	-5.07	97.31	111.00
2	Cb	109	ASP	N-CA-C	-5.07	97.32	111.00
2	Cs	109	ASP	N-CA-C	-5.07	97.32	111.00
1	Aj	33	LEU	CA-CB-CG	5.07	126.95	115.30
1	A6	33	LEU	CA-CB-CG	5.06	126.94	115.30
2	C0	109	ASP	N-CA-C	-5.06	97.33	111.00
2	C1	109	ASP	N-CA-C	-5.06	97.33	111.00
2	CP	109	ASP	N-CA-C	-5.06	97.33	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Cp	109	ASP	N-CA-C	-5.06	97.33	111.00
1	Am	33	LEU	CA-CB-CG	5.06	126.94	115.30
2	CH	109	ASP	N-CA-C	-5.06	97.34	111.00
1	Ad	33	LEU	CA-CB-CG	5.06	126.94	115.30
2	Cq	109	ASP	N-CA-C	-5.06	97.34	111.00
1	AB	33	LEU	CA-CB-CG	5.06	126.93	115.30
2	CJ	109	ASP	N-CA-C	-5.06	97.34	111.00
2	CT	109	ASP	N-CA-C	-5.06	97.34	111.00
2	Cc	109	ASP	N-CA-C	-5.06	97.34	111.00
2	Cn	109	ASP	N-CA-C	-5.06	97.35	111.00
2	Co	109	ASP	N-CA-C	-5.06	97.34	111.00
1	BG	33	LEU	CA-CB-CG	5.06	126.93	115.30
2	Cj	109	ASP	N-CA-C	-5.06	97.35	111.00
2	C7	109	ASP	N-CA-C	-5.05	97.35	111.00
2	CV	109	ASP	N-CA-C	-5.05	97.35	111.00
2	Cl	109	ASP	N-CA-C	-5.05	97.35	111.00
2	Cw	109	ASP	N-CA-C	-5.05	97.35	111.00
1	A4	33	LEU	CA-CB-CG	5.05	126.92	115.30
1	A6	35	ASP	CB-CG-OD1	5.05	122.85	118.30
1	AG	33	LEU	CA-CB-CG	5.05	126.92	115.30
2	Ca	109	ASP	N-CA-C	-5.05	97.36	111.00
2	Cf	109	ASP	N-CA-C	-5.05	97.36	111.00
1	AI	33	LEU	CA-CB-CG	5.05	126.92	115.30
2	C3	109	ASP	N-CA-C	-5.05	97.36	111.00
2	C9	109	ASP	N-CA-C	-5.05	97.36	111.00
2	Ct	109	ASP	N-CA-C	-5.05	97.36	111.00
2	CA	109	ASP	N-CA-C	-5.05	97.37	111.00
2	CL	109	ASP	N-CA-C	-5.05	97.37	111.00
2	CU	109	ASP	N-CA-C	-5.05	97.36	111.00
2	Cv	109	ASP	N-CA-C	-5.05	97.37	111.00
2	CC	109	ASP	N-CA-C	-5.05	97.37	111.00
2	CW	109	ASP	N-CA-C	-5.05	97.37	111.00
1	AY	33	LEU	CA-CB-CG	5.05	126.91	115.30
1	Ao	33	LEU	CA-CB-CG	5.05	126.91	115.30
2	CQ	109	ASP	N-CA-C	-5.05	97.38	111.00
2	Ch	109	ASP	N-CA-C	-5.05	97.38	111.00
1	AH	33	LEU	CA-CB-CG	5.04	126.90	115.30
1	AN	33	LEU	CA-CB-CG	5.04	126.90	115.30
1	AP	33	LEU	CA-CB-CG	5.04	126.90	115.30
2	CE	109	ASP	N-CA-C	-5.04	97.38	111.00
2	CF	109	ASP	N-CA-C	-5.04	97.38	111.00
1	AU	33	LEU	CA-CB-CG	5.04	126.90	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Al	33	LEU	CA-CB-CG	5.04	126.90	115.30
1	BF	33	LEU	CA-CB-CG	5.04	126.90	115.30
2	C2	109	ASP	N-CA-C	-5.04	97.38	111.00
2	C5	109	ASP	N-CA-C	-5.04	97.38	111.00
2	C8	109	ASP	N-CA-C	-5.04	97.38	111.00
2	CN	109	ASP	N-CA-C	-5.04	97.38	111.00
2	Cx	109	ASP	N-CA-C	-5.04	97.38	111.00
1	A0	33	LEU	CA-CB-CG	5.04	126.90	115.30
2	CD	109	ASP	N-CA-C	-5.04	97.39	111.00
2	CK	109	ASP	N-CA-C	-5.04	97.39	111.00
2	CZ	109	ASP	N-CA-C	-5.04	97.39	111.00
2	Cg	109	ASP	N-CA-C	-5.04	97.39	111.00
2	Cr	109	ASP	N-CA-C	-5.04	97.39	111.00
1	A7	33	LEU	CA-CB-CG	5.04	126.89	115.30
2	C4	109	ASP	N-CA-C	-5.04	97.39	111.00
2	Cu	109	ASP	N-CA-C	-5.04	97.39	111.00
1	AM	35	ASP	CB-CG-OD1	5.04	122.83	118.30
1	BB	33	LEU	CA-CB-CG	5.04	126.89	115.30
1	AA	33	LEU	CA-CB-CG	5.04	126.89	115.30
1	AF	33	LEU	CA-CB-CG	5.04	126.88	115.30
1	Ab	33	LEU	CA-CB-CG	5.04	126.89	115.30
2	CY	109	ASP	N-CA-C	-5.04	97.40	111.00
1	A3	33	LEU	CA-CB-CG	5.04	126.88	115.30
1	AL	33	LEU	CA-CB-CG	5.04	126.88	115.30
1	AW	33	LEU	CA-CB-CG	5.04	126.88	115.30
2	CG	109	ASP	N-CA-C	-5.04	97.41	111.00
2	CX	109	ASP	N-CA-C	-5.04	97.41	111.00
2	Ck	109	ASP	N-CA-C	-5.04	97.41	111.00
1	AZ	33	LEU	CA-CB-CG	5.03	126.88	115.30
1	Ac	33	LEU	CA-CB-CG	5.03	126.88	115.30
1	Ah	33	LEU	CA-CB-CG	5.03	126.88	115.30
1	An	33	LEU	CA-CB-CG	5.03	126.88	115.30
1	BH	33	LEU	CA-CB-CG	5.03	126.88	115.30
1	BI	33	LEU	CA-CB-CG	5.03	126.88	115.30
2	C6	109	ASP	N-CA-C	-5.03	97.41	111.00
2	CO	109	ASP	N-CA-C	-5.03	97.41	111.00
2	CR	109	ASP	N-CA-C	-5.03	97.41	111.00
1	AJ	33	LEU	CA-CB-CG	5.03	126.87	115.30
1	AK	33	LEU	CA-CB-CG	5.03	126.88	115.30
2	CS	109	ASP	N-CA-C	-5.03	97.41	111.00
1	A9	33	LEU	CA-CB-CG	5.03	126.87	115.30
1	AT	35	ASP	CB-CG-OD1	5.03	122.83	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ai	33	LEU	CA-CB-CG	5.03	126.87	115.30
2	CB	109	ASP	N-CA-C	-5.03	97.42	111.00
2	CI	109	ASP	N-CA-C	-5.03	97.42	111.00
2	Cd	109	ASP	N-CA-C	-5.03	97.42	111.00
1	A5	33	LEU	CA-CB-CG	5.03	126.87	115.30
1	Ak	33	LEU	CA-CB-CG	5.03	126.87	115.30
1	BD	33	LEU	CA-CB-CG	5.03	126.87	115.30
1	AO	33	LEU	CA-CB-CG	5.03	126.86	115.30
1	Af	35	ASP	CB-CG-OD1	5.03	122.83	118.30
1	BE	33	LEU	CA-CB-CG	5.03	126.86	115.30
1	A1	33	LEU	CA-CB-CG	5.03	126.86	115.30
1	AQ	33	LEU	CA-CB-CG	5.03	126.86	115.30
1	AV	33	LEU	CA-CB-CG	5.03	126.86	115.30
1	BA	33	LEU	CA-CB-CG	5.03	126.86	115.30
2	Ce	109	ASP	N-CA-C	-5.03	97.43	111.00
1	A8	33	LEU	CA-CB-CG	5.02	126.86	115.30
1	AM	33	LEU	CA-CB-CG	5.02	126.85	115.30
1	Ag	33	LEU	CA-CB-CG	5.02	126.85	115.30
1	Ae	33	LEU	CA-CB-CG	5.02	126.85	115.30
1	Af	33	LEU	CA-CB-CG	5.02	126.84	115.30
2	Ci	109	ASP	N-CA-C	-5.02	97.46	111.00
1	A7	35	ASP	CB-CG-OD1	5.01	122.81	118.30
1	AC	33	LEU	CA-CB-CG	5.01	126.83	115.30
1	AT	33	LEU	CA-CB-CG	5.01	126.83	115.30
1	BC	33	LEU	CA-CB-CG	5.01	126.83	115.30
1	AE	35	ASP	CB-CG-OD1	5.01	122.81	118.30
1	AO	35	ASP	CB-CG-OD1	5.01	122.81	118.30
1	AS	33	LEU	CA-CB-CG	5.01	126.83	115.30
1	Aa	35	ASP	CB-CG-OD1	5.01	122.81	118.30
1	Ad	35	ASP	CB-CG-OD1	5.01	122.81	118.30
1	AX	33	LEU	CA-CB-CG	5.01	126.82	115.30
1	Aa	33	LEU	CA-CB-CG	5.01	126.82	115.30
1	AR	33	LEU	CA-CB-CG	5.01	126.82	115.30
1	AE	33	LEU	CA-CB-CG	5.01	126.82	115.30
1	A1	35	ASP	CB-CG-OD1	5.00	122.80	118.30
1	A5	35	ASP	CB-CG-OD1	5.00	122.80	118.30
1	Ag	35	ASP	CB-CG-OD1	5.00	122.80	118.30

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
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

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Mol	Chain	Res	Type	Group
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
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

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Mol	Chain	Res	Type	Group
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
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 ⓘ

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	291	0
1	A1	1929	0	1864	288	0
1	A2	1929	0	1864	283	0
1	A3	1929	0	1864	283	0
1	A4	1929	0	1864	284	0
1	A5	1929	0	1864	290	0
1	A6	1929	0	1864	288	0
1	A7	1929	0	1864	288	0
1	A8	1929	0	1864	286	0
1	A9	1929	0	1864	288	0
1	AA	1929	0	1864	384	0
1	AB	1929	0	1864	386	0
1	AC	1929	0	1864	383	0
1	AD	1929	0	1864	360	0
1	AE	1929	0	1864	388	0
1	AF	1929	0	1864	387	0
1	AG	1929	0	1864	398	0
1	AH	1929	0	1864	382	0
1	AI	1929	0	1864	359	0
1	AJ	1929	0	1864	380	0
1	AK	1929	0	1864	386	0
1	AL	1929	0	1864	385	0
1	AM	1929	0	1864	413	0
1	AN	1929	0	1864	410	0
1	AO	1929	0	1864	413	0
1	AP	1929	0	1864	283	0
1	AQ	1929	0	1864	286	0
1	AR	1929	0	1864	282	0
1	AS	1929	0	1864	288	0
1	AT	1929	0	1864	285	0
1	AU	1929	0	1864	289	0
1	AV	1929	0	1864	291	0
1	AW	1929	0	1864	285	0
1	AX	1929	0	1864	281	0
1	AY	1929	0	1864	288	0
1	AZ	1929	0	1864	289	0
1	Aa	1929	0	1864	0	0
1	Ab	1929	0	1864	0	0
1	Ac	1929	0	1864	0	0
1	Ad	1929	0	1864	0	0
1	Ae	1929	0	1864	0	0
1	Af	1929	0	1864	0	0
1	Ag	1929	0	1864	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Ah	1929	0	1864	0	0
1	Ai	1929	0	1864	0	0
1	Aj	1929	0	1864	0	0
1	Ak	1929	0	1864	0	0
1	Al	1929	0	1864	0	0
1	Am	1929	0	1864	0	0
1	An	1929	0	1864	0	0
1	Ao	1929	0	1864	0	0
1	BA	1929	0	1864	293	0
1	BB	1929	0	1864	291	0
1	BC	1929	0	1864	289	0
1	BD	1929	0	1864	289	0
1	BE	1929	0	1864	292	0
1	BF	1929	0	1864	286	0
1	BG	1929	0	1864	289	0
1	BH	1929	0	1864	291	0
1	BI	1929	0	1864	298	0
2	C0	1537	0	1497	230	0
2	C1	1537	0	1497	226	0
2	C2	1537	0	1497	229	0
2	C3	1537	0	1497	227	0
2	C4	1537	0	1497	228	0
2	C5	1537	0	1497	230	0
2	C6	1537	0	1497	228	0
2	C7	1537	0	1497	226	0
2	C8	1537	0	1497	226	0
2	C9	1537	0	1497	230	0
2	CA	1537	0	1497	291	0
2	CB	1537	0	1497	293	0
2	CC	1537	0	1497	290	0
2	CD	1537	0	1497	305	0
2	CE	1537	0	1497	301	0
2	CF	1537	0	1497	292	0
2	CG	1537	0	1497	287	0
2	CH	1537	0	1497	292	0
2	CI	1537	0	1497	304	0
2	CJ	1537	0	1497	301	0
2	CK	1537	0	1497	293	0
2	CL	1537	0	1497	285	0
2	CM	1537	0	1497	290	0
2	CN	1537	0	1497	303	0
2	CO	1537	0	1497	301	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	CP	1537	0	1497	293	0
2	CQ	1537	0	1497	293	0
2	CR	1537	0	1497	292	0
2	CS	1537	0	1497	296	0
2	CT	1537	0	1497	328	0
2	CU	1537	0	1497	327	0
2	CV	1537	0	1497	326	0
2	CW	1537	0	1497	327	0
2	CX	1537	0	1497	325	0
2	CY	1537	0	1497	225	0
2	CZ	1537	0	1497	228	0
2	Ca	1537	0	1497	0	0
2	Cb	1537	0	1497	0	0
2	Cc	1537	0	1497	0	0
2	Cd	1537	0	1497	0	0
2	Ce	1537	0	1497	0	0
2	Cf	1537	0	1497	0	0
2	Cg	1537	0	1497	0	0
2	Ch	1537	0	1497	0	0
2	Ci	1537	0	1497	0	0
2	Cj	1537	0	1497	0	0
2	Ck	1537	0	1497	0	0
2	Cl	1537	0	1497	0	0
2	Cm	1537	0	1497	0	0
2	Cn	1537	0	1497	0	0
2	Co	1537	0	1497	0	0
2	Cp	1537	0	1497	0	0
2	Cq	1537	0	1497	0	0
2	Cr	1537	0	1497	0	0
2	Cs	1537	0	1497	0	0
2	Ct	1537	0	1497	0	0
2	Cu	1537	0	1497	0	0
2	Cv	1537	0	1497	0	0
2	Cw	1537	0	1497	0	0
2	Cx	1537	0	1497	0	0
3	D0	1719	0	1677	263	0
3	D1	1719	0	1677	263	0
3	D2	1719	0	1677	269	0
3	D3	1719	0	1677	266	0
3	D4	1719	0	1677	266	0
3	D5	1719	0	1677	265	0
3	D6	1719	0	1677	263	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D7	1719	0	1677	267	0
3	D8	1719	0	1677	264	0
3	D9	1719	0	1677	263	0
3	DA	1719	0	1677	362	0
3	DB	1719	0	1677	345	0
3	DC	1719	0	1677	350	0
3	DD	1719	0	1677	351	0
3	DE	1719	0	1677	374	0
3	DF	1719	0	1677	363	0
3	DG	1719	0	1677	350	0
3	DH	1719	0	1677	354	0
3	DI	1719	0	1677	349	0
3	DJ	1719	0	1677	373	0
3	DK	1719	0	1677	365	0
3	DL	1719	0	1677	346	0
3	DM	1719	0	1677	343	0
3	DN	1719	0	1677	349	0
3	DO	1719	0	1677	376	0
3	DP	1719	0	1677	360	0
3	DQ	1719	0	1677	351	0
3	DR	1719	0	1677	350	0
3	DS	1719	0	1677	353	0
3	DT	1719	0	1677	260	0
3	DU	1719	0	1677	267	0
3	DV	1719	0	1677	264	0
3	DW	1719	0	1677	263	0
3	DX	1719	0	1677	266	0
3	DY	1719	0	1677	267	0
3	DZ	1719	0	1677	260	0
3	Da	1719	0	1677	0	0
3	Db	1719	0	1677	0	0
3	Dc	1719	0	1677	0	0
3	Dd	1719	0	1677	0	0
3	De	1719	0	1677	0	0
3	Df	1719	0	1677	0	0
3	Dg	1719	0	1677	0	0
3	Dh	1719	0	1677	0	0
3	Di	1719	0	1677	0	0
3	Dj	1719	0	1677	0	0
3	Dk	1719	0	1677	0	0
3	Dl	1719	0	1677	0	0
3	Dm	1719	0	1677	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	Dn	1719	0	1677	0	0
3	Do	1719	0	1677	0	0
3	Dp	1719	0	1677	0	0
3	Dq	1719	0	1677	0	0
3	Dr	1719	0	1677	0	0
3	Ds	1719	0	1677	0	0
3	EA	1719	0	1677	264	0
3	EB	1719	0	1677	262	0
3	EC	1719	0	1677	268	0
3	ED	1719	0	1677	266	0
3	EE	1719	0	1677	263	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	31	0
4	FB	166	0	146	26	0
4	FC	166	0	146	28	0
4	FD	166	0	146	31	0
4	FE	166	0	146	35	0
4	FF	166	0	146	29	0
4	FG	166	0	146	26	0
4	FH	166	0	146	26	0
4	FI	166	0	146	31	0
4	FJ	166	0	146	36	0
4	FK	166	0	146	29	0
4	FL	166	0	146	27	0
4	FM	166	0	146	25	0
4	FN	166	0	146	32	0
4	FO	166	0	146	35	0
4	FP	166	0	146	30	0
4	FQ	166	0	146	27	0
4	FR	166	0	146	26	0
4	FS	166	0	146	31	0
4	FT	166	0	146	42	0
4	FU	166	0	146	39	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	FV	166	0	146	33	0
4	FW	166	0	146	34	0
4	FX	166	0	146	38	0
4	FY	166	0	146	25	0
4	FZ	166	0	146	25	0
4	Fa	166	0	146	0	0
4	Fb	166	0	146	0	0
4	Fc	166	0	146	0	0
4	Fd	166	0	146	0	0
4	Fe	166	0	146	0	0
4	Ff	166	0	146	0	0
4	Fg	166	0	146	0	0
4	Fh	166	0	146	0	0
4	Fi	166	0	146	0	0
4	Fj	166	0	146	0	0
4	Fk	166	0	146	0	0
4	Fl	166	0	146	0	0
4	Fm	166	0	146	0	0
4	Fn	166	0	146	0	0
4	Fo	166	0	146	0	0
4	Fp	166	0	146	0	0
4	Fq	166	0	146	0	0
4	Fr	166	0	146	0	0
4	Fs	166	0	146	0	0
4	Ft	166	0	146	0	0
4	Fu	166	0	146	0	0
4	Fv	166	0	146	0	0
4	Fw	166	0	146	0	0
4	Fx	166	0	146	0	0
All	All	321060	0	311040	28399	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 45.

All (28399) 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:CE	3:D9:119:LYS:NZ	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DN:119:LYS:CE	3:DN:119:LYS:NZ	1.67	1.57
3:DM:119:LYS:CE	3:DM: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:CE	3:DG:119:LYS:NZ	1.67	1.56
3:D4:119:LYS:CE	3:D4:119:LYS:NZ	1.67	1.56
3:DP:119:LYS:CE	3:DP:119:LYS:NZ	1.67	1.56
3:D3:119:LYS:NZ	3:D3:119:LYS:CE	1.67	1.56
3:DH:119:LYS:NZ	3:DH:119:LYS:CE	1.67	1.56
3:DQ:119:LYS:CE	3:DQ:119:LYS:NZ	1.67	1.56
3:DL:119:LYS:NZ	3:DL:119:LYS:CE	1.67	1.55
3:DY:119:LYS:NZ	3:DY: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:CE	3:ED:119:LYS:NZ	1.67	1.54
3:DJ:119:LYS:NZ	3:DJ:119:LYS:CE	1.67	1.54
3:DB:119:LYS:CE	3:DB:119:LYS:NZ	1.67	1.54
3:DK:119:LYS:CE	3:DK:119:LYS:NZ	1.67	1.54
3:EE:119:LYS:CE	3:EE:119:LYS:NZ	1.67	1.54
3:EB:119:LYS:CE	3:EB:119:LYS:NZ	1.67	1.54
3:D2:119:LYS:CE	3:D2:119:LYS:NZ	1.67	1.54
3:DR:119:LYS:CE	3:DR:119:LYS:NZ	1.67	1.54
3:DZ:119:LYS:CE	3:DZ:119:LYS:NZ	1.67	1.53
3:DU:119:LYS:NZ	3:DU:119:LYS:CE	1.67	1.53
3:DX:119:LYS:CE	3:DX:119:LYS:NZ	1.67	1.53
3:DA:119:LYS:NZ	3:DA:119:LYS:CE	1.67	1.52
3:DF:119:LYS:CE	3:DF:119:LYS:NZ	1.67	1.52
3:D0:119:LYS:CE	3:D0:119:LYS:NZ	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:D1:119:LYS:CE	3:D1:119:LYS:NZ	1.67	1.52
3:DC:119:LYS:CE	3:DC:119:LYS:NZ	1.67	1.52
3:EA:119:LYS:CE	3:EA:119:LYS:NZ	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:EC:119:LYS:CE	3:EC:119:LYS:NZ	1.67	1.51
3:DV:119:LYS:NZ	3:DV:119:LYS:CE	1.67	1.50
1:AC:13:THR:HB	3:DE:157:ASN:HB2	103.46	1.17
1:AI:13:THR:HB	3:DI:157:ASN:HB2	1.27	1.16
1:BA:13:THR:HB	3:DP:157:ASN:HB2	107.77	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	108.99	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:13:THR:HB	3:DD:157:ASN:HB2	103.46	1.16
1:AA:13:THR:HB	3:DC:157:ASN:HB2	103.46	1.15
1:BD:13:THR:HB	3:DS:157:ASN:HB2	143.16	1.15
1:AM:13:THR:HB	3:DO:157:ASN:HB2	103.46	1.15
1:A4:13:THR:HB	3:D5:157:ASN:HB2	1.27	1.15
1:AN:13:THR:HB	3:DN:157:ASN:HB2	1.27	1.15
1:A2:13:THR:HB	3:D3:157: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
2:CH:104:VAL:HG13	2:CH:222:VAL:HG22	1.15	1.14
2:CO:104:VAL:HG13	2:CO:222:VAL:HG22	1.15	1.14
1:BB:13:THR:HB	3:DQ:157:ASN:HB2	92.03	1.14
2:C9:104:VAL:HG13	2:C9:222:VAL:HG22	1.15	1.14
1:AN:13:THR:HB	3:DB:157:ASN:HB2	170.24	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:AU:13:THR:HB	3:DV:157:ASN:HB2	1.27	1.14
1:AH:13:THR:HB	3:DH:157:ASN:HB2	1.27	1.14
1:AG:13:THR:HB	3:DG: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
2:C8:104:VAL:HG13	2:C8:222:VAL:HG22	1.15	1.13
1:BI:13:THR:HB	3:EE:157:ASN:HB2	1.27	1.12
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:CU:104:VAL:HG13	2:CU:222:VAL:HG22	1.15	1.12
2:CL:104:VAL:HG13	2:CL:222:VAL:HG22	1.15	1.12
2:CV:104:VAL:HG13	2:CV:222:VAL:HG22	1.15	1.12
2:CM:104:VAL:HG13	2:CM: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:CD:104:VAL:HG13	2:CD:222:VAL:HG22	1.15	1.12
1:AE:13:THR:HB	3:DG:157:ASN:HB2	90.43	1.12
1:AY:13:THR:HB	3:DZ:157:ASN:HB2	1.27	1.12
1:A3:13:THR:HB	3:D4:157:ASN:HB2	1.27	1.12
2:C2:104:VAL:HG13	2:C2:222:VAL:HG22	1.15	1.12
1:BE:13:THR:HB	3:EA:157:ASN:HB2	1.27	1.12
1:AB:13:THR:HB	3:DB:157:ASN:HB2	1.27	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:13:THR:HB	3:DM:157:ASN:HB2	103.46	1.11
2:CB:104:VAL:HG13	2:CB:222:VAL:HG22	1.15	1.11
1:AT:13:THR:HB	3:DU:157:ASN:HB2	1.27	1.11
1:AJ:13:THR:HB	3:DL:157:ASN:HB2	240.63	1.11
1:AV:13:THR:HB	3:DW: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
2:CX:104:VAL:HG13	2:CX:222:VAL:HG22	1.15	1.11
2:CP:104:VAL:HG13	2:CP:222:VAL:HG22	1.15	1.11
1:A0:13:THR:HB	3:D1:157:ASN:HB2	1.27	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	133.64	1.11
1:AM:13:THR:HB	3:DM:157:ASN:HB2	1.27	1.11
1:AL:13:THR:HB	3:DN:157:ASN:HB2	103.46	1.11
1:AS:13:THR:HB	3:DT:157:ASN:HB2	1.27	1.11
2:CE:104:VAL:HG13	2:CE:222:VAL:HG22	1.15	1.11
1:A6:13:THR:HB	3:D7:157:ASN:HB2	1.27	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
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:CW:104:VAL:HG13	2:CW:222:VAL:HG22	1.15	1.10
1:A1:13:THR:HB	3:D2:157:ASN:HB2	1.27	1.10
2:CA:104:VAL:HG13	2:CA:222:VAL:HG22	1.15	1.10
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
2:CI:104:VAL:HG13	2:CI:222:VAL:HG22	1.15	1.09
2:CZ:104:VAL:HG13	2:CZ: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:CU:44:PRO:HB2	2:CU:47:VAL:HG22	1.36	1.08
2:C4:44:PRO:HB2	2:C4:47:VAL:HG22	1.36	1.08
2:CG:44:PRO:HB2	2:CG:47:VAL:HG22	1.36	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:44:PRO:HB2	2:CT:47:VAL:HG22	1.36	1.08
2:CK:104:VAL:HG13	2:CK:222:VAL:HG22	1.15	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:CF:44:PRO:HB2	2:CF:47:VAL:HG22	1.36	1.08
1:A9:13:THR:HB	3:DA:157:ASN:HB2	214.81	1.08
2:CP:44:PRO:HB2	2:CP:47:VAL:HG22	1.36	1.08
2:C0:44:PRO:HB2	2:C0:47:VAL:HG22	1.36	1.08
2:CC:44:PRO:HB2	2:CC:47:VAL:HG22	1.36	1.08
2:CL:44:PRO:HB2	2:CL:47:VAL:HG22	1.36	1.08
2:CE:44:PRO:HB2	2:CE:47:VAL:HG22	1.36	1.08
2:CS:44:PRO:HB2	2:CS:47:VAL:HG22	1.36	1.08
2:C0:104:VAL:HG13	2:C0:222:VAL:HG22	1.15	1.08
2:CV:44:PRO:HB2	2:CV:47:VAL:HG22	1.36	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	103.46	1.07
2:CN:44:PRO:HB2	2:CN:47:VAL:HG22	1.36	1.07
1:AO:13:THR:HB	3:DS:157:ASN:HB2	144.24	1.07
1:AG:13:THR:HB	3:DI:157:ASN:HB2	103.46	1.07
2:CY:44:PRO:HB2	2:CY:47:VAL:HG22	1.36	1.07
1:AZ:13:THR:HB	3:D0:157: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
1:A5:13:THR:HB	3:D6:157:ASN:HB2	1.27	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:CH:44:PRO:HB2	2:CH:47:VAL:HG22	1.36	1.07
2:CJ:44:PRO:HB2	2:CJ:47:VAL:HG22	1.36	1.07
2:CD:44:PRO:HB2	2:CD:47:VAL:HG22	1.36	1.07
2:CM:44:PRO:HB2	2:CM:47:VAL:HG22	1.36	1.07
1:BF:13:THR:HB	3:EB:157:ASN:HB2	1.27	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:C9:44:PRO:HB2	2:C9:47:VAL:HG22	1.36	1.06
2:C5:104:VAL:HG13	2:C5:222:VAL:HG22	1.15	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	229.06	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	103.46	1.06
2:CZ:44:PRO:HB2	2:CZ:47:VAL:HG22	1.36	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:44:PRO:HB2	2:C8:47:VAL:HG22	1.36	1.06
2:CI:44:PRO:HB2	2:CI:47:VAL:HG22	1.36	1.06
2:CA:44:PRO:HB2	2:CA:47:VAL:HG22	1.36	1.05
2:CO:44:PRO:HB2	2:CO:47:VAL:HG22	1.36	1.05
3:DV:11:SER:HA	3:DW:6:VAL:HG23	1.40	1.04
3:DL:11:SER:HA	3:DM:6:VAL:HG23	1.40	1.04
3:DP:11:SER:HA	3:DQ:6:VAL:HG23	1.40	1.04
3:DO:6:VAL:HG23	3:DS:11:SER:HA	148.84	1.04
3:DQ:11:SER:HA	3:DR:6:VAL:HG23	1.40	1.04
3:DG:11:SER:HA	3:DH:6:VAL:HG23	1.40	1.04
3:DD:11:SER:HA	3:DE:6:VAL:HG23	1.40	1.04
3:DC:11:SER:HA	3:DD:6:VAL:HG23	1.40	1.04
3:DM:11:SER:HA	3:DN:6:VAL:HG23	1.40	1.04
3:DK:11:SER:HA	3:DL:6:VAL:HG23	1.40	1.04
3:DB:11:SER:HA	3:DC:6:VAL:HG23	1.40	1.04
3:DA:6:VAL:HG23	3:DE:11:SER:HA	1.40	1.04
3:DH:11:SER:HA	3:DI:6:VAL:HG23	1.40	1.04
3:EE:42:ASN:ND2	3:EE:44:ILE:HG22	1.73	1.04
3:DC:42:ASN:ND2	3:DC:44:ILE:HG22	1.73	1.04
3:DL:42:ASN:ND2	3:DL:44:ILE:HG22	1.73	1.04
3:DJ:11:SER:HA	3:DK:6:VAL:HG23	260.90	1.03
3:DP:6:VAL:HG23	3:DT:11:SER:HA	1.40	1.03
3:DK:6:VAL:HG23	3:DO:11:SER:HA	1.40	1.03
3:DN:42:ASN:ND2	3:DN: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:DS:42:ASN:ND2	3:DS:44:ILE:HG22	1.73	1.03
3:DM:42:ASN:ND2	3:DM:44:ILE:HG22	1.73	1.03
3:DX:42:ASN:ND2	3:DX:44:ILE:HG22	1.73	1.03
3:DP:42:ASN:ND2	3:DP:44:ILE:HG22	1.73	1.03
3:D6:42:ASN:ND2	3:D6:44:ILE:HG22	1.73	1.03
3:DH:42:ASN:ND2	3:DH:44:ILE:HG22	1.73	1.03
3:EA:42:ASN:ND2	3:EA:44:ILE:HG22	1.73	1.03
3:DR:42:ASN:ND2	3:DR:44:ILE:HG22	1.73	1.03
3:DB:42:ASN:ND2	3:DB:44:ILE:HG22	1.73	1.03
3:DN:11:SER:HA	3:DO:6:VAL:HG23	1.40	1.03
3:DD:42:ASN:ND2	3:DD:44:ILE:HG22	1.73	1.03
3:D4:42:ASN:ND2	3:D4:44:ILE:HG22	1.73	1.03
3:DF:42:ASN:ND2	3:DF:44:ILE:HG22	1.73	1.03
3:DI:42:ASN:ND2	3:DI:44:ILE:HG22	1.73	1.03
3:DA:42:ASN:ND2	3:DA:44:ILE:HG22	1.73	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:42:ASN:ND2	3:DU:44:ILE:HG22	1.73	1.03
3:EB:42:ASN:ND2	3:EB:44:ILE:HG22	1.73	1.03
3:DA:11:SER:HA	3:DB:6:VAL:HG23	1.40	1.03
3:DE:11:SER:HA	3:DF:6:VAL:HG23	131.91	1.03
3:DW:11:SER:HA	3:DX:6:VAL:HG23	1.40	1.03
3:DO:42:ASN:ND2	3:DO:44:ILE:HG22	1.73	1.03
3:DK:42:ASN:ND2	3:DK:44:ILE:HG22	1.73	1.03
3:D3:11:SER:HA	3:DZ:6:VAL:HG23	1.40	1.03
3:DI:11:SER:HA	3:DJ:6:VAL:HG23	1.40	1.03
3:DW:42:ASN:ND2	3:DW:44:ILE:HG22	1.73	1.03
3:DT:42:ASN:ND2	3:DT:44:ILE:HG22	1.73	1.03
3:D5:42:ASN:ND2	3:D5:44:ILE:HG22	1.73	1.03
3:DJ:42:ASN:ND2	3:DJ:44:ILE:HG22	1.73	1.03
3:D4:11:SER:HA	3:D5:6:VAL:HG23	1.40	1.03
3:DY:42:ASN:ND2	3:DY:44:ILE:HG22	1.73	1.03
3:DF:11:SER:HA	3:DG:6:VAL:HG23	1.40	1.03
3:DU:11:SER:HA	3:DV:6:VAL:HG23	1.40	1.03
3:D9:11:SER:HA	3:DA:6:VAL:HG23	214.50	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
3:DV:42:ASN:ND2	3:DV:44:ILE:HG22	1.73	1.02
3:DS:11:SER:HA	3:DT:6:VAL:HG23	1.40	1.02
3:DG:42:ASN:ND2	3:DG:44:ILE:HG22	1.73	1.02
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:DJ:6:VAL:HG23	3:DN:11:SER:HA	261.13	1.02
3:ED:42:ASN:ND2	3:ED: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:DR:11:SER:HA	3:DS:6:VAL:HG23	1.40	1.02
3:DU:6:VAL:HG23	3:DY:11:SER:HA	1.40	1.02
3:D5:11:SER:HA	3:D6:6:VAL:HG23	1.40	1.02
3:EC:11:SER:HA	3:ED:6:VAL:HG23	1.40	1.02
3:D0:42:ASN:ND2	3:D0:44:ILE:HG22	1.73	1.02
3:EA:6:VAL:HG23	3:EE:11:SER:HA	1.40	1.02
3:D4:6:VAL:HG23	3:D8:11:SER:HA	1.40	1.02
3:D1:42:ASN:ND2	3:D1:44:ILE:HG22	1.73	1.02
3:DO:11:SER:HA	3:DP:6:VAL:HG23	131.91	1.01
3:D0:11:SER:HA	3:D1:6:VAL:HG23	1.40	1.01
3:DZ:42:ASN:ND2	3:DZ:44:ILE:HG22	1.73	1.01
3:D9:42:ASN:ND2	3:D9:44:ILE:HG22	1.73	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:6:VAL:HG23	3:DD:11:SER:HA	219.38	1.01
3:D3:42:ASN:ND2	3:D3:44:ILE:HG22	1.73	1.01
3:EB:11:SER:HA	3:EC:6:VAL:HG23	1.40	1.01
1:BH:121:LEU:HD11	1:BI:206:GLY:HA3	1.43	1.01
1:AU:121:LEU:HD11	1:AV:206:GLY:HA3	1.43	1.01
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
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
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
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
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
3:DL:116:THR:HG23	3:DL:191:LEU:HD21	1.44	1.00
3:DF:116:THR:HG23	3:DF:191:LEU:HD21	1.44	1.00
3:D6:11:SER:HA	3:D7:6:VAL:HG23	1.40	1.00
3:DX:116:THR:HG23	3:DX: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
3:D3:116:THR:HG23	3:D3:191:LEU:HD21	1.44	1.00
3:DB:116:THR:HG23	3:DB:191:LEU:HD21	1.44	1.00
3:D1:116:THR:HG23	3:D1:191:LEU:HD21	1.44	1.00
1:AQ:121:LEU:HD11	1:AR:206:GLY:HA3	1.44	1.00
3:DJ:116:THR:HG23	3:DJ:191:LEU:HD21	1.44	0.99
3:D8:116:THR:HG23	3:D8:191:LEU:HD21	1.44	0.99
3:DK:116:THR:HG23	3:DK:191:LEU:HD21	1.44	0.99
3:DC:116:THR:HG23	3:DC:191:LEU:HD21	1.44	0.99
3:D0:116:THR:HG23	3:D0:191:LEU:HD21	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:BE:112:PRO:HD2	3:EB:220:VAL:HG11	1.44	0.99
1:AK:112:PRO:HD2	3:DL:220:VAL:HG11	1.44	0.99
1:AI:112:PRO:HD2	3:DL:220:VAL:HG11	270.15	0.99
1:AO:112:PRO:HD2	3:DT:220:VAL:HG11	92.11	0.99
1:AH:112:PRO:HD2	3:DK:220:VAL:HG11	265.24	0.99
3:D4:116:THR:HG23	3:D4:191:LEU:HD21	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DP:116:THR:HG23	3:DP:191:LEU:HD21	1.44	0.99
3:EA:116:THR:HG23	3:EA:191:LEU:HD21	1.44	0.99
3:DE:6:VAL:HG23	3:DI:11:SER:HA	148.84	0.99
1:AO:112:PRO:HD2	3:DK:220:VAL:HG11	1.44	0.99
3:D7:116:THR:HG23	3:D7:191:LEU:HD21	1.44	0.99
1:AH:121:LEU:HD11	1:AI:206:GLY:HA3	1.43	0.99
1:A8:112:PRO:HD2	3:DA:220:VAL:HG11	233.18	0.99
1:AV:112:PRO:HD2	3:DX:220:VAL:HG11	1.44	0.99
1:A4:112:PRO:HD2	3:D6:220:VAL:HG11	1.44	0.99
3:D6:116:THR:HG23	3:D6:191:LEU:HD21	1.44	0.99
1:AO:121:LEU:HD11	1:AS:206:GLY:HA3	124.03	0.99
1:AL:112:PRO:HD2	3:DJ:220:VAL:HG11	264.77	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
3:D0:6:VAL:HG23	3:DZ:11:SER:HA	1.40	0.99
1:BB:112:PRO:HD2	3:DR:220:VAL:HG11	144.86	0.99
3:DM:116:THR:HG23	3:DM: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
1:AC:206:GLY:HA3	1:AG:121:LEU:HD11	190.94	0.99
3:EA:11:SER:HA	3:EB:6:VAL:HG23	1.40	0.99
1:A1:121:LEU:HD11	1:A2:206:GLY:HA3	1.43	0.99
3:DA:116:THR:HG23	3:DA:191:LEU:HD21	1.44	0.99
3:D2:116:THR:HG23	3:D2:191:LEU:HD21	1.44	0.99
1:AA:206:GLY:HA3	1:AE:121:LEU:HD11	1.43	0.99
1:A3:121:LEU:HD11	1:A4:206:GLY:HA3	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
1:A2:112:PRO:HD2	3:DZ:220:VAL:HG11	1.44	0.99
3:EB:116:THR:HG23	3:EB:191:LEU:HD21	1.44	0.99
1:AV:121:LEU:HD11	1:AW:206:GLY:HA3	1.43	0.99
1:AL:112:PRO:HD2	3:DM:220:VAL:HG11	1.44	0.99
1:AY:121:LEU:HD11	1:AZ:206:GLY:HA3	1.43	0.99
1:AU:112:PRO:HD2	3:DW:220:VAL:HG11	1.44	0.99
3:DD:116:THR:HG23	3:DD:191:LEU:HD21	1.44	0.99
1:AE:112:PRO:HD2	3:DA:220:VAL:HG11	1.44	0.99
1:A0:112:PRO:HD2	3:D2:220:VAL:HG11	1.44	0.99
1:AW:112:PRO:HD2	3:DY:220:VAL:HG11	1.44	0.99
1:AB:121:LEU:HD11	1:AC:206:GLY:HA3	1.43	0.99
1:BE:206:GLY:HA3	1:BI:121:LEU:HD11	1.43	0.99
1:AI:112:PRO:HD2	3:DJ:220:VAL:HG11	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:112:PRO:HD2	3:DI:220:VAL:HG11	1.44	0.99
1:AB:112:PRO:HD2	3:D9:220:VAL:HG11	211.33	0.99
1:AN:112:PRO:HD2	3:DO:220:VAL:HG11	1.44	0.99
3:DZ:116:THR:HG23	3:DZ:191:LEU:HD21	1.44	0.98
1:AM:112:PRO:HD2	3:DN:220:VAL:HG11	1.44	0.98
1:AD:112:PRO:HD2	3:DG:220:VAL:HG11	120.57	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:BD:112:PRO:HD2	3:DO:220:VAL:HG11	211.33	0.98
3:DI:191:LEU:HD22	3:DI:192:THR:H	1.29	0.98
3:D5:116:THR:HG23	3:D5:191:LEU:HD21	1.44	0.98
3:DG:116:THR:HG23	3:DG:191:LEU:HD21	1.44	0.98
3:DL:191:LEU:HD22	3:DL:192:THR:H	1.28	0.98
3:DE:116:THR:HG23	3:DE: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:DN:191:LEU:HD22	3:DN:192:THR:H	1.29	0.98
3:DA:191:LEU:HD22	3:DA:192:THR:H	1.29	0.98
3:D4:191:LEU:HD22	3:D4:192:THR:H	1.29	0.98
3:DO:116:THR:HG23	3:DO:191:LEU:HD21	1.44	0.98
3:DF:6:VAL:HG23	3:DJ:11:SER:HA	1.40	0.98
1:AC:112:PRO:HD2	3:DF:220:VAL:HG11	131.03	0.98
1:AK:112:PRO:HD2	3:DN:220:VAL:HG11	67.72	0.98
3:D7:11:SER:HA	3:D8:6:VAL:HG23	1.40	0.98
3:ED:191:LEU:HD22	3:ED:192:THR:H	1.29	0.98
1:A8:206:GLY:HA3	1:AB:121:LEU:HD11	230.70	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
1:AM:121:LEU:HD11	1:BA:206:GLY:HA3	230.70	0.98
1:AF:112:PRO:HD2	3:DG:220:VAL:HG11	1.44	0.98
1:A7:112:PRO:HD2	3:D4:220:VAL:HG11	1.44	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:DK:191:LEU:HD22	3:DK:192:THR:H	1.29	0.98
3:DE:191:LEU:HD22	3:DE:192:THR:H	1.28	0.98
3:DC:191:LEU:HD22	3:DC:192:THR:H	1.29	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	222.24	0.98
1:BH:112:PRO:HD2	3:EE:220:VAL:HG11	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DW:116:THR:HG23	3:DW:191:LEU:HD21	1.44	0.98
1:AO:206:GLY:HA3	1:AR:121:LEU:HD11	138.47	0.98
1:A9:112:PRO:HD2	3:DB:220:VAL:HG11	252.28	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
1:AE:112:PRO:HD2	3:DH:220:VAL:HG11	143.66	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	120.95	0.98
1:A6:112:PRO:HD2	3:D8:220:VAL:HG11	1.44	0.97
3:DT:191:LEU:HD22	3:DT:192:THR:H	1.29	0.97
1:AE:121:LEU:HD11	1:AF:206:GLY:HA3	136.55	0.97
1:AM:206:GLY:HA3	1:BD:121:LEU:HD11	252.25	0.97
1:AF:112:PRO:HD2	3:DI:220:VAL:HG11	67.71	0.97
1:A6:187:LEU:HD22	1:A6:188:PRO:HD2	1.47	0.97
1:A5:112:PRO:HD2	3:D7:220:VAL:HG11	1.44	0.97
3:DU:116:THR:HG23	3:DU:191:LEU:HD21	1.44	0.97
3:D0:191:LEU:HD22	3:D0:192:THR:H	1.28	0.97
1:AH:206:GLY:HA3	1:AL:121:LEU:HD11	295.44	0.97
1:AJ:112:PRO:HD2	3:DM:220:VAL:HG11	261.69	0.97
1:AJ:112:PRO:HD2	3:DF:220:VAL:HG11	1.44	0.97
1:AZ:187:LEU:HD22	1:AZ:188:PRO:HD2	1.47	0.97
1:BH:187:LEU:HD22	1:BH:188:PRO:HD2	1.47	0.97
1:AN:187:LEU:HD22	1:AN:188:PRO:HD2	1.47	0.97
3:DF:191:LEU:HD22	3:DF:192:THR:H	1.29	0.97
1:A3:206:GLY:HA3	1:A7:121:LEU:HD11	1.43	0.97
1:BG:121:LEU:HD11	1:BH:206:GLY:HA3	1.43	0.97
1:A2:121:LEU:HD11	1:AY:206:GLY:HA3	1.43	0.97
1:AB:187:LEU:HD22	1:AB:188:PRO:HD2	1.47	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:AL:121:LEU:HD11	1:AM:206:GLY:HA3	1.43	0.97
1:BC:121:LEU:HD11	1:BD:206:GLY:HA3	1.43	0.97
1:AA:112:PRO:HD2	3:DB:220:VAL:HG11	1.44	0.97
1:BC:112:PRO:HD2	3:DS:220:VAL:HG11	156.17	0.97
1:AU:187:LEU:HD22	1:AU:188:PRO:HD2	1.47	0.97
3:DH:191:LEU:HD22	3:DH:192:THR:H	1.29	0.97
1:A5:187:LEU:HD22	1:A5:188:PRO:HD2	1.47	0.97
3:EE:191:LEU:HD22	3:EE:192:THR:H	1.29	0.97
1:BB:121:LEU:HD11	1:BC:206:GLY:HA3	1.43	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	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DY:191:LEU:HD22	3:DY:192:THR:H	1.29	0.97
1:BF:121:LEU:HD11	1:BG:206:GLY:HA3	1.43	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:AG:187:LEU:HD22	1:AG:188:PRO:HD2	1.47	0.97
1:A4:187:LEU:HD22	1:A4:188:PRO:HD2	1.47	0.97
1:AQ:187:LEU:HD22	1:AQ:188:PRO:HD2	1.46	0.97
3:DX:191:LEU:HD22	3:DX:192:THR:H	1.29	0.97
3:EC:116:THR:HG23	3:EC:191:LEU:HD21	1.44	0.97
1:AP:112:PRO:HD2	3:DQ:220:VAL:HG11	1.44	0.97
1:A9:187:LEU:HD22	1:A9:188:PRO:HD2	1.47	0.97
1:A0:187:LEU:HD22	1:A0:188:PRO:HD2	1.47	0.97
3:DB:191:LEU:HD22	3:DB:192:THR:H	1.28	0.97
3:DO:191:LEU:HD22	3:DO:192:THR:H	1.29	0.97
3:DT:116:THR:HG23	3:DT:191:LEU:HD21	1.44	0.97
1:AA:206:GLY:HA3	1:AN:121:LEU:HD11	266.99	0.97
1:AD:112:PRO:HD2	3:DE:220:VAL:HG11	1.44	0.97
1:AQ:112:PRO:HD2	3:DR:220:VAL:HG11	1.44	0.97
1:AH:187:LEU:HD22	1:AH:188:PRO:HD2	1.47	0.97
1:A5:121:LEU:HD11	1:A6:206:GLY:HA3	1.43	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
3:ED:116:THR:HG23	3:ED:191:LEU:HD21	1.44	0.96
1:AL:187:LEU:HD22	1:AL:188:PRO:HD2	1.47	0.96
1:AD:187:LEU:HD22	1:AD:188:PRO:HD2	1.47	0.96
1:AP:187:LEU:HD22	1:AP:188:PRO:HD2	1.47	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
1:AJ:121:LEU:HD11	1:AK:206:GLY:HA3	293.45	0.96
1:A0:121:LEU:HD11	1:A1:206:GLY:HA3	1.43	0.96
1:AO:187:LEU:HD22	1:AO:188:PRO:HD2	1.47	0.96
1:A3:187:LEU:HD22	1:A3:188:PRO:HD2	1.46	0.96
1:A3:112:PRO:HD2	3:D5:220:VAL:HG11	1.44	0.96
1:A9:121:LEU:HD11	1:AN:206:GLY:HA3	162.03	0.96
1:AT:112:PRO:HD2	3:DV:220:VAL:HG11	1.44	0.96
3:EE:116:THR:HG23	3:EE:191:LEU:HD21	1.44	0.96
3:D2:191:LEU:HD22	3:D2:192:THR:H	1.29	0.96
1:AK:187:LEU:HD22	1:AK:188:PRO:HD2	1.46	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:A2:187:LEU:HD22	1:A2:188:PRO:HD2	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:187:LEU:HD22	1:A7:188:PRO:HD2	1.47	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
3:DP:191:LEU:HD22	3:DP:192:THR:H	1.28	0.96
3:D1:191:LEU:HD22	3:D1:192:THR:H	1.29	0.96
1:BF:187:LEU:HD22	1:BF:188:PRO:HD2	1.46	0.96
1:AC:187:LEU:HD22	1:AC:188:PRO:HD2	1.47	0.96
3:EA:191:LEU:HD22	3:EA:192:THR:H	1.28	0.96
3:D9:191:LEU:HD22	3:D9:192:THR:H	1.29	0.96
3:D8:191:LEU:HD22	3:D8:192:THR:H	1.29	0.96
1:AM:187:LEU:HD22	1:AM:188:PRO:HD2	1.47	0.96
3:EC:191:LEU:HD22	3:EC:192:THR:H	1.29	0.96
1:AA:112:PRO:HD2	3:DD:220:VAL:HG11	67.71	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:BC:187:LEU:HD22	1:BC:188:PRO:HD2	1.47	0.96
1:AM:112:PRO:HD2	3:DP:220:VAL:HG11	131.03	0.95
1:AG:112:PRO:HD2	3:DE:220:VAL:HG11	152.57	0.95
1:BA:187:LEU:HD22	1:BA:188:PRO:HD2	1.47	0.95
1:A1:112:PRO:HD2	3:D3:220:VAL:HG11	1.45	0.95
3:DR:191:LEU:HD22	3:DR:192:THR:H	1.29	0.95
1:BD:187:LEU:HD22	1:BD:188:PRO:HD2	1.47	0.95
1:BI:187:LEU:HD22	1:BI:188:PRO:HD2	1.47	0.95
1:BG:112:PRO:HD2	3:ED:220:VAL:HG11	1.44	0.95
3:DG:191:LEU:HD22	3:DG:192:THR:H	1.29	0.95
1:BF:112:PRO:HD2	3:EC:220:VAL:HG11	1.44	0.95
3:D3:191:LEU:HD22	3:D3:192:THR:H	1.29	0.95
3:DW:191:LEU:HD22	3:DW: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
1:AA:187:LEU:HD22	1:AA:188:PRO:HD2	1.47	0.95
3:D6:191:LEU:HD22	3:D6:192:THR:H	1.29	0.95
1:AF:187:LEU:HD22	1:AF:188:PRO:HD2	1.47	0.95
3:DU:191:LEU:HD22	3:DU:192:THR:H	1.28	0.95
1:AT:121:LEU:HD11	1:AU:206:GLY:HA3	1.43	0.95
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
3:DV:191:LEU:HD22	3:DV:192:THR:H	1.29	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:209:VAL:H	2:C9:210:PRO:HD3	1.32	0.94
3:D7:191:LEU:HD22	3:D7:192:THR:H	1.29	0.94
2:C0:209:VAL:H	2:C0:210:PRO:HD3	1.32	0.94
1:AX:187:LEU:HD22	1:AX:188:PRO:HD2	1.47	0.94
2:CT:209:VAL:H	2:CT:210:PRO:HD3	1.33	0.94
3:DE:117:LYS:HB3	3:DE:119:LYS:HE3	1.50	0.94
2:CP:209:VAL:H	2:CP:210:PRO:HD3	1.32	0.94
2:CI:209:VAL:H	2:CI:210:PRO:HD3	1.32	0.94
2:CS:209:VAL:H	2:CS:210:PRO:HD3	1.33	0.94
2:C3:209:VAL:H	2:C3:210:PRO:HD3	1.33	0.94
3:DJ:117:LYS:HB3	3:DJ:119:LYS:HE3	1.50	0.94
3:DS:117:LYS:HB3	3:DS:119:LYS:HE3	1.50	0.94
3:D8:117:LYS:HB3	3:D8:119:LYS:HE3	1.50	0.94
3:DO:117:LYS:HB3	3:DO: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:DF:117:LYS:HB3	3:DF:119:LYS:HE3	1.50	0.94
2:CX:209:VAL:H	2:CX:210:PRO:HD3	1.32	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
3:EE:117:LYS:HB3	3:EE:119:LYS:HE3	1.50	0.94
3:DP:117:LYS:HB3	3:DP:119:LYS:HE3	1.50	0.94
1:AT:187:LEU:HD22	1:AT:188:PRO:HD2	1.47	0.94
2:CJ:209:VAL:H	2:CJ:210:PRO:HD3	1.32	0.94
1:BG:187:LEU:HD22	1:BG:188:PRO:HD2	1.47	0.94
3:D2:117:LYS:HB3	3:D2:119:LYS:HE3	1.50	0.94
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:DB:117:LYS:HB3	3:DB:119:LYS:HE3	1.50	0.93
2:CQ:209:VAL:H	2:CQ:210:PRO:HD3	1.32	0.93
3:DL:117:LYS:HB3	3:DL:119:LYS:HE3	1.50	0.93
1:BE:187:LEU:HD22	1:BE:188:PRO:HD2	1.46	0.93
2:CR:209:VAL:H	2:CR:210:PRO:HD3	1.32	0.93
2:CL:209:VAL:H	2:CL:210:PRO:HD3	1.32	0.93
3:DX:117:LYS:HB3	3:DX:119:LYS:HE3	1.50	0.93
3:DG:117:LYS:HB3	3:DG:119:LYS:HE3	1.50	0.93
3:EB:191:LEU:HD22	3:EB:192:THR:H	1.28	0.93
3:DT:117:LYS:HB3	3:DT:119:LYS:HE3	1.50	0.93
3:D1:117:LYS:HB3	3:D1:119:LYS:HE3	1.50	0.93
2:CH:209:VAL:H	2:CH:210:PRO:HD3	1.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DK:117:LYS:HB3	3:DK:119:LYS:HE3	1.50	0.93
2:CC:209:VAL:H	2:CC: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:CK:209:VAL:H	2:CK:210:PRO:HD3	1.32	0.93
2:C2:209:VAL:H	2:C2:210:PRO:HD3	1.32	0.93
3:DQ:117:LYS:HB3	3:DQ:119:LYS:HE3	1.50	0.93
3:DD:191:LEU:HD22	3:DD:192:THR:H	1.28	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
2:C1:209:VAL:H	2:C1:210:PRO:HD3	1.32	0.93
3:EA:117:LYS:HB3	3:EA:119:LYS:HE3	1.50	0.93
2:C5:209:VAL:H	2:C5:210:PRO:HD3	1.32	0.93
2:CW:209:VAL:H	2:CW:210:PRO:HD3	1.32	0.93
2:CO:209:VAL:H	2:CO: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
3:DD:117:LYS:HB3	3:DD:119:LYS:HE3	1.50	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:BA:88:PHE:CE1	1:BA:205:GLY:HA3	2.05	0.92
1:A0:88:PHE:CE1	1:A0:205:GLY:HA3	2.05	0.92
2:C6:209:VAL:H	2:C6:210:PRO:HD3	1.32	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
3:D7:117:LYS:HB3	3:D7:119:LYS:HE3	1.50	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
3:ED:117:LYS:HB3	3:ED:119:LYS:HE3	1.50	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
1:A1:88:PHE:CE1	1:A1:205:GLY:HA3	2.05	0.92
3:DN:117:LYS:HB3	3:DN:119:LYS:HE3	1.50	0.92
1:AC:88:PHE:CE1	1:AC:205:GLY:HA3	2.05	0.92
1:AE:88:PHE:CE1	1:AE:205:GLY:HA3	2.05	0.92
1:AN:88:PHE:CE1	1:AN:205:GLY:HA3	2.05	0.92
1:AW:88:PHE:CE1	1:AW:205:GLY:HA3	2.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:88:PHE:CE1	1:BE:205:GLY:HA3	2.05	0.92
3:DI:117:LYS:HB3	3:DI:119:LYS:HE3	1.50	0.92
1:A9:88:PHE:CE1	1:A9:205: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
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
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
1:AA:88:PHE:CE1	1:AA:205:GLY:HA3	2.05	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:A3:88:PHE:CE1	1:A3:205:GLY:HA3	2.05	0.92
3:DR:117:LYS:HB3	3:DR:119:LYS:HE3	1.50	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:EB:103:SER:HB3	3:EB:159:PRO:HA	1.52	0.92
1:AJ:88:PHE:CE1	1:AJ:205:GLY:HA3	2.05	0.92
1:AV:88:PHE:CE1	1:AV:205:GLY:HA3	2.05	0.92
3:DV:103:SER:HB3	3:DV:159:PRO:HA	1.52	0.91
3:EE:103:SER:HB3	3:EE:159:PRO:HA	1.52	0.91
3:DW:103:SER:HB3	3:DW:159:PRO:HA	1.53	0.91
3:DR:103:SER:HB3	3:DR:159:PRO:HA	1.52	0.91
1:AB:88:PHE:CE1	1:AB:205:GLY:HA3	2.05	0.91
3:D3:117:LYS:HB3	3:D3:119:LYS:HE3	1.50	0.91
3:DU:117:LYS:HB3	3:DU:119:LYS:HE3	1.50	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:DH:103:SER:HB3	3:DH:159:PRO:HA	1.52	0.91
3:DO:103:SER:HB3	3:DO:159:PRO:HA	1.52	0.91
3:D3:103:SER:HB3	3:D3:159:PRO:HA	1.52	0.91
3:D4:103:SER:HB3	3:D4:159:PRO:HA	1.53	0.91
3:D2:103:SER:HB3	3:D2:159:PRO:HA	1.52	0.91
1:AU:88:PHE:CE1	1:AU:205:GLY:HA3	2.05	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:DH:117:LYS:HB3	3:DH:119:LYS:HE3	1.50	0.91
3:DV:117:LYS:HB3	3:DV:119:LYS:HE3	1.50	0.91
3:EA:103:SER:HB3	3:EA:159:PRO:HA	1.52	0.91
3:D6:103:SER:HB3	3:D6:159:PRO:HA	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:88:PHE:CE1	1:AZ:205:GLY:HA3	2.05	0.91
2:CY:209:VAL:H	2:CY:210:PRO:HD3	1.32	0.91
3:DA:103:SER:HB3	3:DA:159:PRO:HA	1.52	0.91
1:AO:88:PHE:CE1	1:AO:205:GLY:HA3	2.05	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
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:D5:103:SER:HB3	3:D5:159:PRO:HA	1.52	0.91
3:EC:103:SER:HB3	3:EC:159:PRO:HA	1.53	0.91
3:DU:103:SER:HB3	3:DU:159:PRO:HA	1.53	0.91
3:D0:103:SER:HB3	3:D0:159:PRO:HA	1.52	0.91
1:BF:88:PHE:CE1	1:BF:205:GLY:HA3	2.05	0.91
3:DF:103:SER:HB3	3:DF:159:PRO:HA	1.52	0.91
3:DN:103:SER:HB3	3:DN:159:PRO:HA	1.52	0.91
3:D5:117:LYS:HB3	3:D5:119:LYS:HE3	1.50	0.91
1:AT:88:PHE:CE1	1:AT:205:GLY:HA3	2.05	0.91
1:A7:88:PHE:CE1	1:A7:205:GLY:HA3	2.05	0.91
2:C8:209:VAL:H	2:C8:210:PRO:HD3	1.33	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:DE:103:SER:HB3	3:DE:159:PRO:HA	1.53	0.91
3:DK:103:SER:HB3	3:DK:159:PRO:HA	1.52	0.91
1:BG:88:PHE:CE1	1:BG:205:GLY:HA3	2.05	0.91
3:D6:117:LYS:HB3	3:D6:119:LYS:HE3	1.50	0.91
3:EC:117:LYS:HB3	3:EC:119:LYS:HE3	1.50	0.91
3:DM:103:SER:HB3	3:DM:159:PRO:HA	1.52	0.91
3:DT:103:SER:HB3	3:DT:159:PRO:HA	1.53	0.91
2:CM:209:VAL:H	2:CM:210:PRO:HD3	1.32	0.91
3:DB:103:SER:HB3	3:DB:159:PRO:HA	1.52	0.91
3:DZ:103:SER:HB3	3:DZ:159:PRO:HA	1.53	0.91
3:DY:103:SER:HB3	3:DY:159:PRO:HA	1.52	0.91
3:D8:103:SER:HB3	3:D8:159:PRO:HA	1.52	0.91
3:DS:103:SER:HB3	3:DS:159:PRO:HA	1.53	0.90
3:D1:103:SER:HB3	3:D1:159:PRO:HA	1.53	0.90
1:A4:88:PHE:CE1	1:A4:205:GLY:HA3	2.05	0.90
3:D9:117:LYS:HB3	3:D9:119:LYS:HE3	1.50	0.90
3:D7:103:SER:HB3	3:D7:159:PRO:HA	1.53	0.90
1:A8:88:PHE:CE1	1:A8:205:GLY:HA3	2.05	0.90
1:AR:88:PHE:CE1	1:AR:205:GLY:HA3	2.05	0.90
3:DX:103:SER:HB3	3:DX:159:PRO:HA	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:AA:164:TRP:CZ2	1:AA:187:LEU:HD21	2.07	0.90
1:AF:164:TRP:CZ2	1:AF:187:LEU:HD21	2.07	0.90
3:DQ:103:SER:HB3	3:DQ:159:PRO:HA	1.52	0.90
1:AG:82:LEU:HD11	1:AG:211:TYR:HD2	1.37	0.90
1:BH:164:TRP:CZ2	1:BH:187:LEU:HD21	2.07	0.90
1:AD:164:TRP:CZ2	1:AD:187:LEU:HD21	2.07	0.90
1:BC:164:TRP:CZ2	1:BC:187:LEU:HD21	2.07	0.90
1:BI:164:TRP:CZ2	1:BI:187:LEU:HD21	2.07	0.90
1:AC:164:TRP:CZ2	1:AC:187:LEU:HD21	2.07	0.90
1:AM:164:TRP:CZ2	1:AM:187:LEU:HD21	2.07	0.90
1:AH:164:TRP:CZ2	1:AH:187:LEU:HD21	2.07	0.90
2:CV:82:PRO:HA	2:CV:193:THR:HB	1.54	0.90
2:C5:82:PRO:HA	2:C5:193:THR:HB	1.54	0.90
2:C1:82:PRO:HA	2:C1:193:THR:HB	1.54	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
2:CG:82:PRO:HA	2:CG:193:THR:HB	1.54	0.90
2:C7:82:PRO:HA	2:C7:193:THR:HB	1.54	0.90
1:AF:121:LEU:HD21	1:AG:207:CYS:H	1.37	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: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:AL:164:TRP:CZ2	1:AL:187:LEU:HD21	2.07	0.90
1:AG:164:TRP:CZ2	1:AG:187:LEU:HD21	2.07	0.90
1:BF:164:TRP:CZ2	1:BF:187:LEU:HD21	2.07	0.90
1:AV:164:TRP:CZ2	1:AV:187:LEU:HD21	2.07	0.90
1:BE:164:TRP:CZ2	1:BE:187:LEU:HD21	2.07	0.90
1:AU:82:LEU:HD11	1:AU:211:TYR:HD2	1.37	0.90
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:AY:82:LEU:HD11	1:AY:211:TYR:HD2	1.37	0.90
1:A5:121:LEU:HD21	1:A6:207:CYS:H	1.37	0.90
2:CU:82:PRO:HA	2:CU:193:THR:HB	1.54	0.90
2:CZ:82:PRO:HA	2:CZ:193:THR:HB	1.54	0.90
1:AJ:82:LEU:HD11	1:AJ:211:TYR:HD2	1.37	0.90
1:AK:82:LEU:HD11	1:AK:211:TYR:HD2	1.37	0.90
1:A3:82:LEU:HD11	1:A3:211:TYR:HD2	1.37	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:AN:164:TRP:CZ2	1:AN:187:LEU:HD21	2.07	0.90
1:AE:164:TRP:CZ2	1:AE:187:LEU:HD21	2.07	0.90
1:BB:164:TRP:CZ2	1:BB:187:LEU:HD21	2.07	0.90
1:AP:164:TRP:NE1	1:AP:187:LEU:HD11	1.87	0.90
1:BA:164:TRP:CZ2	1:BA:187:LEU:HD21	2.07	0.90
2:CH:82:PRO:HA	2:CH:193:THR:HB	1.54	0.90
1:AA:207:CYS:H	1:AE:121:LEU:HD21	1.37	0.89
1:AG:121:LEU:HD21	1:AH:207:CYS:H	1.37	0.89
1:AF:207:CYS:H	1:AJ:121:LEU:HD21	1.37	0.89
1:BG:121:LEU:HD21	1:BH:207:CYS:H	1.37	0.89
1:A6:164:TRP:CZ2	1:A6:187:LEU:HD21	2.07	0.89
1:AJ:164:TRP:CZ2	1:AJ:187:LEU:HD21	2.07	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:AG:164:TRP:NE1	1:AG:187:LEU:HD11	1.88	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:C3:82:PRO:HA	2:C3:193:THR:HB	1.54	0.89
2:CW:82:PRO:HA	2:CW:193:THR:HB	1.54	0.89
2:CQ:82:PRO:HA	2:CQ:193:THR:HB	1.54	0.89
1:AL:82:LEU:HD11	1:AL:211:TYR:HD2	1.37	0.89
1:AO:207:CYS:H	1:AR:121:LEU:HD21	136.91	0.89
1:AC:164:TRP:NE1	1:AC:187:LEU:HD11	1.88	0.89
1:AE:164:TRP:NE1	1:AE:187:LEU:HD11	1.88	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
1:AE:82:LEU:HD11	1:AE:211:TYR:HD2	1.37	0.89
1:AT:121:LEU:HD21	1:AU:207:CYS:H	1.37	0.89
1:BG:82:LEU:HD11	1:BG:211:TYR:HD2	1.37	0.89
1:A6:121:LEU:HD21	1:A7:207:CYS:H	1.37	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:A8:164:TRP:CZ2	1:A8:187:LEU:HD21	2.07	0.89
1:AO:164:TRP:CZ2	1:AO:187:LEU:HD21	2.07	0.89
1:A0:164:TRP:CZ2	1:A0:187:LEU:HD21	2.07	0.89
1:A7:164:TRP:CZ2	1:A7:187:LEU:HD21	2.07	0.89
2:C8:82:PRO:HA	2:C8:193:THR:HB	1.54	0.89
2:C0:82:PRO:HA	2:C0:193:THR:HB	1.54	0.89
1:AK:121:LEU:HD21	1:AL:207:CYS:H	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:164:TRP:CZ2	1:AU:187:LEU:HD21	2.07	0.89
1:AK:164:TRP:NE1	1:AK:187:LEU:HD11	1.88	0.89
1:BF:164:TRP:NE1	1:BF:187:LEU:HD11	1.88	0.89
1:AR:164:TRP:CZ2	1:AR:187:LEU:HD21	2.07	0.89
1:BI:164:TRP:NE1	1:BI:187:LEU:HD11	1.88	0.89
1:AT:164:TRP:CZ2	1:AT:187:LEU:HD21	2.07	0.89
1:A8:207:CYS:H	1:AB:121:LEU:HD21	226.67	0.89
1:AA:82:LEU:HD11	1:AA:211:TYR:HD2	1.37	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:AT:207:CYS:H	1:AX:121:LEU:HD21	1.37	0.89
1:AW:121:LEU:HD21	1:AX:207:CYS:H	1.37	0.89
1:BB:121:LEU:HD21	1:BC:207:CYS:H	1.37	0.89
1:A1:82:LEU:HD11	1:A1:211:TYR:HD2	1.37	0.89
1:AZ:164:TRP:CZ2	1:AZ:187:LEU:HD21	2.07	0.89
1:AS:164:TRP:NE1	1:AS:187:LEU:HD11	1.88	0.89
1:AH:164:TRP:NE1	1:AH:187:LEU:HD11	1.88	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:AV:164:TRP:NE1	1:AV:187:LEU:HD11	1.88	0.89
2:CY:82:PRO:HA	2:CY:193:THR:HB	1.54	0.89
3:DJ:103:SER:HB3	3:DJ:159:PRO:HA	1.52	0.89
1:AD:82:LEU:HD11	1:AD:211:TYR:HD2	1.37	0.89
1:A3:121:LEU:HD21	1:A4:207:CYS:H	1.37	0.89
1:AB:164:TRP:CZ2	1:AB:187:LEU:HD21	2.07	0.89
1:A8:164:TRP:NE1	1:A8:187:LEU:HD11	1.88	0.89
1:A4:164:TRP:CZ2	1:A4:187:LEU:HD21	2.07	0.89
1:AY:164:TRP:NE1	1:AY:187:LEU:HD11	1.88	0.89
1:A1:164:TRP:CZ2	1:A1:187:LEU:HD21	2.07	0.89
3:DL:103:SER:HB3	3:DL:159:PRO:HA	1.52	0.89
1:AB:121:LEU:HD21	1:AC:207:CYS:H	1.37	0.89
1:AM:121:LEU:HD21	1:BA:207:CYS:H	226.67	0.89
1:BC:121:LEU:HD21	1:BD:207:CYS:H	1.37	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
1:AZ:82:LEU:HD11	1:AZ:211:TYR:HD2	1.37	0.89
1:AN:164:TRP:NE1	1:AN:187:LEU:HD11	1.88	0.89
1:AI:164:TRP:NE1	1:AI:187:LEU:HD11	1.88	0.89
1:AJ:164:TRP:NE1	1:AJ:187:LEU:HD11	1.88	0.89
1:AS:164:TRP:CZ2	1:AS:187:LEU:HD21	2.07	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:164:TRP:NE1	1:A4:187:LEU:HD11	1.88	0.89
1:AQ:164:TRP:CZ2	1:AQ:187:LEU:HD21	2.07	0.89
1:AY:164:TRP:CZ2	1:AY:187:LEU:HD21	2.07	0.89
1:BE:164:TRP:NE1	1:BE:187:LEU:HD11	1.88	0.89
2:CI:82:PRO:HA	2:CI:193:THR:HB	1.54	0.89
2:C4:82:PRO:HA	2:C4:193:THR:HB	1.54	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
1:A3:164:TRP:NE1	1:A3:187:LEU:HD11	1.88	0.89
1:A2:164:TRP:NE1	1:A2:187:LEU:HD11	1.88	0.89
2:C6:82:PRO:HA	2:C6:193:THR:HB	1.54	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: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:AK:164:TRP:CZ2	1:AK:187:LEU:HD21	2.07	0.89
1:AD:164:TRP:NE1	1:AD:187:LEU:HD11	1.88	0.89
1:A1:164:TRP:NE1	1:A1:187:LEU:HD11	1.88	0.89
1:AR:164:TRP:NE1	1:AR:187:LEU:HD11	1.88	0.89
2:CK:82:PRO:HA	2:CK:193:THR:HB	1.54	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
1:AE:121:LEU:HD21	1:AF:207:CYS:H	133.66	0.89
1:AX:82:LEU:HD11	1:AX:211:TYR:HD2	1.37	0.89
1:A5:164:TRP:CZ2	1:A5:187:LEU:HD21	2.07	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
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
2:CG:46:THR:HG21	3:DH:165:ASP:HA	1.55	0.88
1:AC:121:LEU:HD21	1:AD:207:CYS:H	1.37	0.88
1:BF:82:LEU:HD11	1:BF:211:TYR:HD2	1.37	0.88
1:AB:164:TRP:NE1	1:AB:187:LEU:HD11	1.88	0.88
1:AA:164:TRP:NE1	1:AA:187:LEU:HD11	1.88	0.88
1:AX:164:TRP:CZ2	1:AX:187:LEU:HD21	2.07	0.88
1:BG:164:TRP:NE1	1:BG:187:LEU:HD11	1.88	0.88
2:CS:82:PRO:HA	2:CS:193:THR:HB	1.54	0.88
2:CR:82:PRO:HA	2:CR:193:THR:HB	1.54	0.88
1:A8:82:LEU:HD11	1:A8:211:TYR:HD2	1.37	0.88
1:AJ:121:LEU:HD21	1:AK:207:CYS:H	289.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:82:LEU:HD11	1:AV:211:TYR:HD2	1.37	0.88
1:A6:82:LEU:HD11	1:A6:211:TYR:HD2	1.37	0.88
2:CO:82:PRO:HA	2:CO:193:THR:HB	1.54	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	159.70	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:A4:82:LEU:HD11	1:A4:211:TYR:HD2	1.37	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
1:A9:164:TRP:NE1	1:A9:187:LEU:HD11	1.88	0.88
1:BB:164:TRP:NE1	1:BB:187:LEU:HD11	1.88	0.88
1:AM:121:LEU:HD21	1:AN:207:CYS:H	1.37	0.88
1:A7:82:LEU:HD11	1:A7:211:TYR:HD2	1.37	0.88
1:BH:82:LEU:HD11	1:BH:211:TYR:HD2	1.37	0.88
1:A5:164:TRP:NE1	1:A5:187:LEU:HD11	1.88	0.88
1:AQ:164:TRP:NE1	1:AQ:187:LEU:HD11	1.87	0.88
1:A3:164:TRP:CZ2	1:A3:187:LEU:HD21	2.07	0.88
2:CE:46:THR:HG21	3:DA:165:ASP:HA	1.56	0.88
2:CB:46:THR:HG21	3:DC:165:ASP:HA	1.55	0.88
2:C5:46:THR:HG21	3:D6:165:ASP:HA	1.55	0.88
1:A9:121:LEU:HD21	1:AN:207:CYS:H	159.33	0.88
3:DH:8:VAL:HG12	3:DH:9:PRO:HD2	1.56	0.88
1:AT:164:TRP:NE1	1:AT:187:LEU:HD11	1.88	0.88
2:CE:82:PRO:HA	2:CE:193:THR:HB	1.54	0.88
1:AB:48:LEU:HD22	1:AB:130:ILE:HA	1.56	0.88
2:CW:46:THR:HG21	3:DX:165:ASP:HA	1.56	0.88
1:AM:82:LEU:HD11	1:AM:211:TYR:HD2	1.37	0.88
1:BE:82:LEU:HD11	1:BE:211:TYR:HD2	1.37	0.88
1:A1:121:LEU:HD21	1:A2:207:CYS:H	1.37	0.88
1:AG:48:LEU:HD22	1:AG:130:ILE:HA	1.56	0.88
1:BE:48:LEU:HD22	1:BE:130:ILE:HA	1.56	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: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
1:AD:48:LEU:HD22	1:AD:130:ILE:HA	1.56	0.88
1:A3:48:LEU:HD22	1:A3:130:ILE:HA	1.56	0.88
2:C3:46:THR:HG21	3:DZ:165:ASP:HA	1.56	0.88
2:CQ:46:THR:HG21	3:DR:165:ASP:HA	1.55	0.88
2:C7:46:THR:HG21	3:D8:165:ASP:HA	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A0:121:LEU:HD21	1:A1:207:CYS:H	1.37	0.88
1:A7:164:TRP:NE1	1:A7:187:LEU:HD11	1.88	0.88
1:BG:164:TRP:CZ2	1:BG:187:LEU:HD21	2.07	0.88
2:CH:58:LEU:HD13	2:CH:94:PHE:HA	1.56	0.88
2:C5:58:LEU:HD13	2:C5:94:PHE:HA	1.56	0.88
2:C4:58:LEU:HD13	2:C4:94:PHE:HA	1.56	0.88
1:AC:48:LEU:HD22	1:AC:130:ILE:HA	1.56	0.88
2:CX:82:PRO:HA	2:CX:193:THR:HB	1.54	0.88
2:CD:58:LEU:HD13	2:CD:94:PHE:HA	1.56	0.88
1:AJ:48:LEU:HD22	1:AJ:130:ILE:HA	1.56	0.88
2:CT:82:PRO:HA	2:CT:193:THR:HB	1.54	0.88
1:A6:48:LEU:HD22	1:A6:130:ILE:HA	1.56	0.88
2:CD:46:THR:HG21	3:D9:165:ASP:HA	159.70	0.88
2:CK:46:THR:HG21	3:DL:165:ASP:HA	1.56	0.88
2:CS:46:THR:HG21	3:DO:165:ASP:HA	120.43	0.88
2:CU:46:THR:HG21	3:EC:165:ASP:HA	231.38	0.88
1:AW:82:LEU:HD11	1:AW:211:TYR:HD2	1.37	0.88
1:BF:121:LEU:HD21	1:BG:207:CYS:H	1.37	0.88
3:DB:8:VAL:HG12	3:DB:9:PRO:HD2	1.56	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:DS:8:VAL:HG12	3:DS:9:PRO:HD2	1.56	0.88
3:DT:8:VAL:HG12	3:DT:9:PRO:HD2	1.56	0.88
1:A2:164:TRP:CZ2	1:A2:187:LEU:HD21	2.07	0.88
1:BG:48:LEU:HD22	1:BG:130:ILE:HA	1.56	0.88
1:AZ:48:LEU:HD22	1:AZ:130:ILE:HA	1.56	0.88
1:AA:121:LEU:HD21	1:AB:207:CYS:H	1.37	0.88
1:AC:207:CYS:H	1:AG:121:LEU:HD21	189.18	0.88
3:DQ:8:VAL:HG12	3:DQ:9:PRO:HD2	1.56	0.88
3:DG:222:LEU:HD13	3:DG:223:PRO:HD2	1.56	0.88
3:D4:222:LEU:HD13	3:D4:223:PRO:HD2	1.56	0.88
3:DU:222:LEU:HD13	3:DU:223:PRO:HD2	1.56	0.88
2:CF:82:PRO:HA	2:CF:193:THR:HB	1.54	0.88
1:AE:48:LEU:HD22	1:AE:130:ILE:HA	1.56	0.88
2:CO:58:LEU:HD13	2:CO:94:PHE:HA	1.56	0.88
1:AA:48:LEU:HD22	1:AA:130:ILE:HA	1.56	0.88
1:BI:48:LEU:HD22	1:BI:130:ILE:HA	1.56	0.88
1:A1:48:LEU:HD22	1:A1:130:ILE:HA	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:58:LEU:HD13	2:C8:94:PHE:HA	1.56	0.88
2:CI:46:THR:HG21	3:DE:165:ASP:HA	120.43	0.87
2:C4:46:THR:HG21	3:D5:165:ASP:HA	1.56	0.87
2:C2:46:THR:HG21	3:D3:165:ASP:HA	1.55	0.87
1:AM:207:CYS:H	1:BD:121:LEU:HD21	248.39	0.87
1:BE:207:CYS:H	1:BI:121:LEU:HD21	1.37	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:D2:222:LEU:HD13	3:D2:223:PRO:HD2	1.56	0.87
1:A0:164:TRP:NE1	1:A0:187:LEU:HD11	1.88	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:CW:58:LEU:HD13	2:CW:94:PHE:HA	1.56	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:CN:156:SER:HB3	3:DN:51:TYR:HE1	1.40	0.87
1:AX:48:LEU:HD22	1:AX:130:ILE:HA	1.56	0.87
2:CE:156:SER:HB3	3:DE:51:TYR:HE1	1.40	0.87
2:CO:156:SER:HB3	3:DO:51:TYR:HE1	1.40	0.87
1:AF:82:LEU:HD11	1:AF:211:TYR:HD2	1.37	0.87
1:AA:207:CYS:H	1:AN:121:LEU:HD21	263.91	0.87
1:BB:82:LEU:HD11	1:BB:211:TYR:HD2	1.37	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
3:DE:222:LEU:HD13	3:DE:223:PRO:HD2	1.57	0.87
1:AW:164:TRP:NE1	1:AW:187:LEU:HD11	1.88	0.87
1:BD:48:LEU:HD22	1:BD:130:ILE:HA	1.56	0.87
1:AN:48:LEU:HD22	1:AN:130:ILE:HA	1.56	0.87
2:C6:58:LEU:HD13	2:C6:94:PHE:HA	1.56	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:CP:58:LEU:HD13	2:CP:94:PHE:HA	1.56	0.87
1:A0:48:LEU:HD22	1:A0:130:ILE:HA	1.56	0.87
2:CM:156:SER:HB3	3:DM:51:TYR:HE1	1.39	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:C6:46:THR:HG21	3:D7:165:ASP:HA	1.56	0.87
3:DI:8:VAL:HG12	3:DI:9:PRO:HD2	1.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DO:222:LEU:HD13	3:DO:223:PRO:HD2	1.56	0.87
3:DR:222:LEU:HD13	3:DR:223:PRO:HD2	1.57	0.87
3:DV:222:LEU:HD13	3:DV:223:PRO:HD2	1.57	0.87
3:ED:222:LEU:HD13	3:ED:223:PRO:HD2	1.57	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
2:CK:156:SER:HB3	3:DK:51:TYR:HE1	1.40	0.87
1:A2:48:LEU:HD22	1:A2:130:ILE:HA	1.56	0.87
2:CQ:156:SER:HB3	3:DQ:51:TYR:HE1	1.40	0.87
2:CW:156:SER:HB3	3:DW:51:TYR:HE1	1.39	0.87
2:CM:46:THR:HG21	3:DN:165:ASP:HA	1.56	0.87
3:DI:222:LEU:HD13	3:DI:223:PRO:HD2	1.56	0.87
3:DC:222:LEU:HD13	3:DC:223:PRO:HD2	1.56	0.87
3:EE:222:LEU:HD13	3:EE:223:PRO:HD2	1.57	0.87
2:CC:58:LEU:HD13	2:CC:94:PHE:HA	1.56	0.87
1:A8:48:LEU:HD22	1:A8:130:ILE:HA	1.56	0.87
1:AM:48:LEU:HD22	1:AM:130:ILE:HA	1.56	0.87
2:C9:156:SER:HB3	3:D9:51:TYR:HE1	1.40	0.87
2:C4:156:SER:HB3	3:D4:51:TYR:HE1	1.40	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:CN:46:THR:HG21	3:DJ:165:ASP:HA	232.84	0.87
2:CF:46:THR:HG21	3:DG:165:ASP:HA	1.55	0.87
2:CW:46:THR:HG21	3:EE:165:ASP:HA	195.32	0.87
1:AH:121:LEU:HD21	1:AI:207:CYS:H	1.37	0.87
1:AI:82:LEU:HD11	1:AI:211:TYR:HD2	1.37	0.87
3:DA:8:VAL:HG12	3:DA:9: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:DF:222:LEU:HD13	3:DF:223:PRO:HD2	1.57	0.87
3:DJ:222:LEU:HD13	3:DJ:223:PRO:HD2	1.57	0.87
3:DL:222:LEU:HD13	3:DL:223:PRO:HD2	1.56	0.87
3:DA:222:LEU:HD13	3:DA:223:PRO:HD2	1.56	0.87
3:DK:222:LEU:HD13	3:DK:223:PRO:HD2	1.56	0.87
3:DS:222:LEU:HD13	3:DS:223:PRO:HD2	1.57	0.87
3:DQ:222:LEU:HD13	3:DQ:223:PRO:HD2	1.56	0.87
3:D3:222:LEU:HD13	3:D3:223:PRO:HD2	1.56	0.87
2:CJ:58:LEU:HD13	2:CJ:94:PHE:HA	1.56	0.87
1:AI:48:LEU:HD22	1:AI:130:ILE:HA	1.56	0.87
2:CB:156:SER:HB3	3:DB:51:TYR:HE1	1.40	0.87
1:BH:48:LEU:HD22	1:BH:130:ILE:HA	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:48:LEU:HD22	1:A7:130:ILE:HA	1.56	0.87
2:CT:58:LEU:HD13	2:CT:94:PHE:HA	1.56	0.87
1:A5:48:LEU:HD22	1:A5:130:ILE:HA	1.56	0.87
1:A9:82:LEU:HD11	1:A9:211:TYR:HD2	1.37	0.87
1:AD:121:LEU:HD21	1:AE:207:CYS:H	1.37	0.87
1:AR:82:LEU:HD11	1:AR:211:TYR:HD2	1.37	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:DX:222:LEU:HD13	3:DX:223:PRO:HD2	1.57	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:EC:222:LEU:HD13	3:EC:223:PRO:HD2	1.57	0.87
1:AO:48:LEU:HD22	1:AO:130:ILE:HA	1.56	0.87
1:AW:48:LEU:HD22	1:AW:130:ILE:HA	1.56	0.87
1:AF:48:LEU:HD22	1:AF:130:ILE:HA	1.56	0.87
1:BB:48:LEU:HD22	1:BB:130:ILE:HA	1.56	0.87
2:CJ:46:THR:HG21	3:DK:165:ASP:HA	245.54	0.87
2:CE:46:THR:HG21	3:DF:165:ASP:HA	49.21	0.87
2:CT:46:THR:HG21	3:DP:165:ASP:HA	1.55	0.87
1:BE:121:LEU:HD21	1:BF:207:CYS:H	1.37	0.87
3:DB:222:LEU:HD13	3:DB:223:PRO:HD2	1.57	0.87
3:D7:8:VAL:HG12	3:D7:9:PRO:HD2	1.56	0.87
1:A0:82:LEU:HD11	1:A0:211:TYR:HD2	1.37	0.87
3:EA:222:LEU:HD13	3:EA:223:PRO:HD2	1.57	0.87
1:A6:164:TRP:NE1	1:A6:187:LEU:HD11	1.88	0.87
2:CX:58:LEU:HD13	2:CX:94:PHE:HA	1.56	0.87
2:CE:58:LEU:HD13	2:CE:94:PHE:HA	1.56	0.87
2:CQ:58:LEU:HD13	2:CQ:94:PHE:HA	1.56	0.87
2:CJ:156:SER:HB3	3:DJ:51:TYR:HE1	1.40	0.87
2:CF:156:SER:HB3	3:DF:51:TYR:HE1	1.40	0.87
2:CJ:46:THR:HG21	3:DF:165:ASP:HA	1.56	0.87
2:C8:46:THR:HG21	3:D4:165:ASP:HA	1.56	0.87
1:AQ:121:LEU:HD21	1:AR:207:CYS:H	1.37	0.87
1:AS:82:LEU:HD11	1:AS:211:TYR:HD2	1.37	0.87
3:DP:8:VAL:HG12	3:DP:9:PRO:HD2	1.56	0.87
3:DP:222:LEU:HD13	3:DP:223:PRO:HD2	1.57	0.87
3:DZ:8:VAL:HG12	3:DZ:9:PRO:HD2	1.56	0.87
3:DW:222:LEU:HD13	3:DW:223:PRO:HD2	1.56	0.87
1:AZ:164:TRP:NE1	1:AZ:187:LEU:HD11	1.88	0.87
2:CN:58:LEU:HD13	2:CN:94:PHE:HA	1.56	0.87
1:AR:48:LEU:HD22	1:AR:130:ILE:HA	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:82:LEU:HD11	1:BD:211:TYR:HD2	1.37	0.87
3:D1:222:LEU:HD13	3:D1:223:PRO:HD2	1.57	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	233.14	0.87
2:CA:156:SER:HB3	3:DA:51:TYR:HE1	1.39	0.87
2:CT:156:SER:HB3	3:DT:51:TYR:HE1	1.40	0.87
2:CL:156:SER:HB3	3:DL:51:TYR:HE1	1.40	0.87
2:CP:82:PRO:HA	2:CP:193:THR:HB	1.54	0.87
2:C0:58:LEU:HD13	2:C0:94:PHE:HA	1.56	0.87
2:CL:46:THR:HG21	3:DM:165:ASP:HA	1.56	0.86
2:CP:46:THR:HG21	3:DQ:165:ASP:HA	1.55	0.86
1:AO:121:LEU:HD21	1:AS:207:CYS:H	121.92	0.86
3:DN:222:LEU:HD13	3:DN:223:PRO:HD2	1.56	0.86
1:AL:48:LEU:HD22	1:AL:130:ILE:HA	1.56	0.86
2:CC:156:SER:HB3	3:DC:51:TYR:HE1	1.40	0.86
1:BA:48:LEU:HD22	1:BA:130:ILE:HA	1.56	0.86
2:CU:156:SER:HB3	3:EB:51:TYR:HE1	234.78	0.86
2:CV:156:SER:HB3	3:EC:51:TYR:HE1	244.14	0.86
2:C7:156:SER:HB3	3:D7:51:TYR:HE1	1.40	0.86
1:AK:207:CYS:H	1:AO:121:LEU:HD21	1.37	0.86
3:DF:8:VAL:HG12	3:DF:9:PRO:HD2	1.56	0.86
3:DT:222:LEU:HD13	3:DT:223:PRO:HD2	1.57	0.86
1:A2:82:LEU:HD11	1:A2:211:TYR:HD2	1.37	0.86
2:CA:82:PRO:HA	2:CA:193:THR:HB	1.54	0.86
2:CR:156:SER:HB3	3:DR:51:TYR:HE1	1.40	0.86
1:A4:48:LEU:HD22	1:A4:130:ILE:HA	1.56	0.86
1:AY:48:LEU:HD22	1:AY:130:ILE:HA	1.56	0.86
2:C9:82:PRO:HA	2:C9:193:THR:HB	1.54	0.86
1:AV:121:LEU:HD21	1:AW:207:CYS:H	1.37	0.86
1:A3:207:CYS:H	1:A7:121:LEU:HD21	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
2:CC:46:THR:HG21	3:DD:165:ASP:HA	1.56	0.86
2:CZ:46:THR:HG21	3:D0:165:ASP:HA	1.55	0.86
1:AJ:102:VAL:HG22	1:AJ:199:SER:HB2	1.58	0.86
1:AN:102:VAL:HG22	1:AN: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:A0:102:VAL:HG22	1:A0:199:SER:HB2	1.58	0.86
1:AQ:48:LEU:HD22	1:AQ:130:ILE:HA	1.56	0.86
2:C2:156:SER:HB3	3:D2:51:TYR:HE1	1.40	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:BC:102:VAL:HG22	1:BC:199:SER:HB2	1.58	0.86
1:AU:102:VAL:HG22	1:AU:199:SER:HB2	1.58	0.86
3:D7:222:LEU:HD13	3:D7:223:PRO:HD2	1.56	0.86
2:CU:58:LEU:HD13	2:CU:94:PHE:HA	1.56	0.86
2:CF:58:LEU:HD13	2:CF:94:PHE:HA	1.56	0.86
2:CZ:58:LEU:HD13	2:CZ:94:PHE:HA	1.56	0.86
2:C3:156:SER:HB3	3:D3:51:TYR:HE1	1.40	0.86
1:AU:48:LEU:HD22	1:AU:130:ILE:HA	1.56	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
3:DU:8:VAL:HG12	3:DU:9:PRO:HD2	1.56	0.86
3:D5:8:VAL:HG12	3:D5:9:PRO:HD2	1.56	0.86
1:A1:102:VAL:HG22	1:A1:199:SER:HB2	1.58	0.86
2:CT:156:SER:HB3	3:EA:51:TYR:HE1	185.23	0.86
1:AK:48:LEU:HD22	1:AK:130:ILE:HA	1.56	0.86
2:CH:46:THR:HG21	3:DI:165:ASP:HA	1.56	0.86
2:CI:46:THR:HG21	3:DJ:165:ASP:HA	1.56	0.86
2:CO:46:THR:HG21	3:DP:165:ASP:HA	49.21	0.86
2:CX:46:THR:HG21	3:DY:165:ASP:HA	1.56	0.86
1:AE:157:SER:HB2	3:DG:24:PRO:HA	128.26	0.86
1:AH:207:CYS:H	1:AL:121:LEU:HD21	291.14	0.86
1:AL:102:VAL:HG22	1:AL:199:SER:HB2	1.58	0.86
1:AR:102:VAL:HG22	1:AR:199:SER:HB2	1.58	0.86
1:BD:102:VAL:HG22	1:BD:199:SER:HB2	1.58	0.86
1:AA:157:SER:HB2	3:DC:24:PRO:HA	38.68	0.86
3:D5:222:LEU:HD13	3:D5:223:PRO:HD2	1.56	0.86
2:CB:58:LEU:HD13	2:CB:94:PHE:HA	1.56	0.86
2:C2:58:LEU:HD13	2:C2:94:PHE:HA	1.56	0.86
1:AS:48:LEU:HD22	1:AS:130:ILE:HA	1.56	0.86
2:C0:156:SER:HB3	3:D0:51:TYR:HE1	1.39	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	1.39	0.86
2:CX:156:SER:HB3	3:DX:51:TYR:HE1	1.40	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	119.54	0.86
1:AL:157:SER:HB2	3:DL:24:PRO:HA	1.58	0.86
3:DD:8:VAL:HG12	3:DD:9:PRO:HD2	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:157:SER:HB2	3:DP:24:PRO:HA	118.22	0.86
1:AZ:102:VAL:HG22	1:AZ:199:SER:HB2	1.58	0.86
1:A0:157:SER:HB2	3:D1:24:PRO:HA	1.58	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:A2:187:LEU:HD22	1:A2:188:PRO:CD	2.06	0.86
2:CR:58:LEU:HD13	2:CR:94:PHE:HA	1.56	0.86
2:CV:156:SER:HB3	3:DV:51:TYR:HE1	1.39	0.86
2:C5:156:SER:HB3	3:D5:51:TYR:HE1	1.40	0.86
2:C9:46:THR:HG21	3:DA:165:ASP:HA	204.02	0.86
2:CR:46:THR:HG21	3:DS:165:ASP:HA	1.55	0.86
2:CV:46:THR:HG21	3:ED:165:ASP:HA	229.39	0.86
2:C1:46:THR:HG21	3:D2:165:ASP:HA	1.56	0.86
1:AV:157:SER:HB2	3:DW:24:PRO:HA	1.58	0.86
1:A3:102:VAL:HG22	1:A3:199:SER:HB2	1.58	0.86
3:DY:222:LEU:HD13	3:DY:223:PRO:HD2	1.56	0.86
2:C1:58:LEU:HD13	2:C1:94:PHE:HA	1.56	0.86
2:CL:58:LEU:HD13	2:CL:94:PHE:HA	1.56	0.86
2:CS:58:LEU:HD13	2:CS:94:PHE:HA	1.56	0.86
1:AD:102:VAL:HG22	1:AD:199:SER:HB2	1.58	0.86
1:AE:102:VAL:HG22	1:AE:199:SER:HB2	1.58	0.86
1:AI:157:SER:HB2	3:DI:24:PRO:HA	1.58	0.86
1:BD:157:SER:HB2	3:DS:24:PRO:HA	138.31	0.86
3:DD:222:LEU:HD13	3:DD:223:PRO:HD2	1.57	0.86
1:AL:187:LEU:HD22	1:AL:188:PRO:CD	2.06	0.86
2:CX:156:SER:HB3	3:EE:51:TYR:HE1	169.73	0.86
2:CW:73:GLN:HA	2:CW:73:GLN:HE21	1.41	0.86
2:C6:73:GLN:HA	2:C6:73:GLN:HE21	1.41	0.86
2:CV:46:THR:HG21	3:DW:165:ASP:HA	1.56	0.85
1:AG:102:VAL:HG22	1:AG:199:SER:HB2	1.58	0.85
1:AN:157:SER:HB2	3:DB:24:PRO:HA	205.81	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:AM:157:SER:HB2	3:DM:24:PRO:HA	1.58	0.85
3:EA:8:VAL:HG12	3:EA:9:PRO:HD2	1.56	0.85
3:DX:8:VAL:HG12	3:DX:9:PRO:HD2	1.56	0.85
3:DM:222:LEU:HD13	3:DM:223:PRO:HD2	1.57	0.85
1:A3:187:LEU:HD22	1:A3:188:PRO:CD	2.06	0.85
1:AR:187:LEU:HD22	1:AR:188:PRO:CD	2.06	0.85
1:A9:48:LEU:HD22	1:A9:130:ILE:HA	1.56	0.85
2:CY:58:LEU:HD13	2:CY:94:PHE:HA	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:73:GLN:HE21	2:CA:73:GLN:HA	1.41	0.85
2:CJ:73:GLN:HE21	2:CJ:73:GLN:HA	1.41	0.85
2:CR:73:GLN:HE21	2:CR:73:GLN:HA	1.41	0.85
2:C3:58:LEU:HD13	2:C3:94: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:CY:46:THR:HG21	3:DU:165:ASP:HA	1.55	0.85
1:BF:157:SER:HB2	3:EB:24:PRO:HA	1.58	0.85
3:D1:8:VAL:HG12	3:D1:9: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
2:C7:58:LEU:HD13	2:C7:94:PHE:HA	1.56	0.85
2:CI:156:SER:HB3	3:DI:51:TYR:HE1	1.40	0.85
1:AG:157:SER:HB2	3:DI:24:PRO:HA	38.68	0.85
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:BH:102:VAL:HG22	1:BH:199:SER:HB2	1.58	0.85
1:AA:157:SER:HB2	3:DA:24:PRO:HA	1.58	0.85
3:EC:8:VAL:HG12	3:EC:9:PRO:HD2	1.56	0.85
1:AZ:157:SER:HB2	3:D0:24:PRO:HA	1.58	0.85
3:D0:222:LEU:HD13	3:D0:223:PRO:HD2	1.56	0.85
1:AU:187:LEU:HD22	1:AU:188:PRO:CD	2.06	0.85
1:AJ:187:LEU:HD22	1:AJ:188:PRO:CD	2.06	0.85
1:AF:187:LEU:HD22	1:AF:188:PRO:CD	2.06	0.85
2:C0:73:GLN:HA	2:C0:73:GLN:HE21	1.41	0.85
2:CB:73:GLN:HE21	2:CB:73:GLN:HA	1.41	0.85
2:CG:73:GLN:HA	2:CG:73:GLN:HE21	1.41	0.85
2:CH:115:ASN:HA	3:DN:119:LYS:HD2	256.49	0.85
2:CK:115:ASN:HA	3:DA:119:LYS:HD2	269.95	0.85
2:CG:213:MET:HE3	2:CG:215:VAL:HG22	1.58	0.85
2:CN:115:ASN:HA	3:DE:119:LYS:HD2	255.79	0.85
1:AI:157:SER:HB2	3:DK:24:PRO:HA	249.44	0.85
1:AO:157:SER:HB2	3:DS:24:PRO:HA	106.42	0.85
1:AP:157:SER:HB2	3:DP:24:PRO:HA	1.58	0.85
1:BI:157:SER:HB2	3:EE:24:PRO:HA	1.58	0.85
1:A2:102:VAL:HG22	1:A2:199:SER:HB2	1.58	0.85
1:AK:187:LEU:HD22	1:AK:188:PRO:CD	2.06	0.85
1:BG:187:LEU:HD22	1:BG:188:PRO:CD	2.06	0.85
2:CS:73:GLN:HA	2:CS:73:GLN:HE21	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:73:GLN:HA	2:CI:73:GLN:HE21	1.41	0.85
2:CL:115:ASN:HA	3:D8:119:LYS:HD2	111.89	0.85
2:CO:115:ASN:HA	3:DP:119:LYS:HD2	1.59	0.85
2:CN:46:THR:HG21	3:DO:165:ASP:HA	1.56	0.85
1:A9:157:SER:HB2	3:DA:24:PRO:HA	224.56	0.85
1:A9:102:VAL:HG22	1:A9:199:SER:HB2	1.58	0.85
1:AH:157:SER:HB2	3:DJ:24:PRO:HA	38.68	0.85
1:AM:102:VAL:HG22	1:AM:199:SER:HB2	1.58	0.85
1:AX:157:SER:HB2	3:DY:24:PRO:HA	1.58	0.85
1:BG:102:VAL:HG22	1:BG:199:SER:HB2	1.58	0.85
1:AY:157:SER:HB2	3:DZ:24:PRO:HA	1.58	0.85
1:A6:187:LEU:HD22	1:A6:188:PRO:CD	2.06	0.85
1:AB:187:LEU:HD22	1:AB:188:PRO:CD	2.06	0.85
1:A5:187:LEU:HD22	1:A5:188:PRO:CD	2.06	0.85
1:AC:187:LEU:HD22	1:AC:188:PRO:CD	2.06	0.85
1:AH:187:LEU:HD22	1:AH:188:PRO:CD	2.06	0.85
1:AP:187:LEU:HD22	1:AP:188:PRO:CD	2.06	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:CC:73:GLN:HA	2:CC:73:GLN:HE21	1.41	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
2:CE:73:GLN:HE21	2:CE:73:GLN:HA	1.41	0.85
2:CZ:73:GLN:HE21	2:CZ:73:GLN:HA	1.41	0.85
1:AH:48:LEU:HD22	1:AH:130:ILE:HA	1.56	0.85
2:CN:115:ASN:HA	3:D2:119:LYS:HD2	1.59	0.85
2:CF:115:ASN:HA	3:D6:119:LYS:HD2	1.59	0.85
1:AB:157:SER:HB2	3:DD:24:PRO:HA	38.68	0.85
1:A7:157:SER:HB2	3:D8:24:PRO:HA	1.58	0.85
1:AN:187:LEU:HD22	1:AN:188:PRO:CD	2.06	0.85
1:A8:187:LEU:HD22	1:A8:188:PRO:CD	2.06	0.85
1:A5:102:VAL:HG22	1:A5:199:SER:HB2	1.58	0.85
1:A7:187:LEU:HD22	1:A7:188:PRO:CD	2.06	0.85
1:AG:130:ILE:HD11	1:AG:135:VAL:HG12	1.59	0.85
1:AJ:130:ILE:HD11	1:AJ:135:VAL:HG12	1.59	0.85
1:AN:130:ILE:HD11	1:AN:135:VAL:HG12	1.59	0.85
1:AX:130:ILE:HD11	1:AX:135:VAL:HG12	1.59	0.85
1:A9:130:ILE:HD11	1:A9:135:VAL:HG12	1.59	0.85
2:C3:226:LEU:HD23	3:DZ:126:PRO:HG2	1.59	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
2:CK:115:ASN:HA	3:DB:119:LYS:HD2	255.48	0.85
2:CT:115:ASN:HA	3:DK:119:LYS:HD2	1.59	0.85
2:CD:115:ASN:HA	3:D4:119:LYS:HD2	148.14	0.85
2:CY:115:ASN:HA	3:DZ:119:LYS:HD2	1.59	0.85
2:CP:115:ASN:HA	3:D0:119:LYS:HD2	91.90	0.85
1:AC:157:SER:HB2	3:DE:24:PRO:HA	38.68	0.85
1:AW:102:VAL:HG22	1:AW:199:SER:HB2	1.58	0.85
1:AC:157:SER:HB2	3:DC:24:PRO:HA	1.58	0.85
3:DY:8:VAL:HG12	3:DY:9:PRO:HD2	1.56	0.85
3:D6:222:LEU:HD13	3:D6:223:PRO:HD2	1.56	0.85
1:AA:187:LEU:HD22	1:AA:188:PRO:CD	2.06	0.85
1:AW:187:LEU:HD22	1:AW:188:PRO:CD	2.06	0.85
1:AI:130:ILE:HD11	1:AI:135:VAL:HG12	1.59	0.85
1:AF:130:ILE:HD11	1:AF:135:VAL:HG12	1.59	0.85
1:BA:130:ILE:HD11	1:BA:135:VAL:HG12	1.59	0.85
2:CZ:156:SER:HB3	3:DZ:51:TYR:HE1	1.40	0.85
2:CR:226:LEU:HD23	3:DS:126:PRO:HG2	1.59	0.85
1:AI:102:VAL:HG22	1:AI:199:SER:HB2	1.58	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:AN:157:SER:HB2	3:DN:24:PRO:HA	1.58	0.85
3:EB:8:VAL:HG12	3:EB: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:BH:187:LEU:HD22	1:BH:188:PRO:CD	2.06	0.85
1:AO:187:LEU:HD22	1:AO:188:PRO:CD	2.06	0.85
1:AQ:187:LEU:HD22	1:AQ:188:PRO:CD	2.06	0.85
1:AL:130:ILE:HD11	1:AL:135:VAL:HG12	1.59	0.85
1:AC:130:ILE:HD11	1:AC:135:VAL:HG12	1.59	0.85
1:AR:130:ILE:HD11	1:AR:135:VAL:HG12	1.59	0.85
2:CH:73:GLN:HA	2:CH:73:GLN:HE21	1.41	0.85
2:CV:115:ASN:HA	3:DD:119:LYS:HD2	148.13	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
1:AB:157:SER:HB2	3:DB:24:PRO:HA	1.58	0.85
1:AY:102:VAL:HG22	1:AY:199:SER:HB2	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:130:ILE:HD11	1:BD:135:VAL:HG12	1.59	0.85
1:AM:130:ILE:HD11	1:AM:135:VAL:HG12	1.59	0.85
2:CJ:226:LEU:HD23	3:DF:126:PRO:HG2	1.59	0.85
2:CN:226:LEU:HD23	3:DJ:126:PRO:HG2	241.09	0.85
1:BC:48:LEU:HD22	1:BC:130:ILE:HA	1.56	0.85
2:CY:156:SER:HB3	3:DY:51:TYR:HE1	1.40	0.85
2:CR:115:ASN:HA	3:EE:119:LYS:HD2	1.59	0.85
2:CG:115:ASN:HA	3:D3:119:LYS:HD2	255.48	0.85
2:CZ:115:ASN:HA	3:DQ:119:LYS:HD2	89.41	0.85
1:AC:102:VAL:HG22	1:AC:199:SER:HB2	1.58	0.85
3:D9:8:VAL:HG12	3:D9:9:PRO:HD2	1.56	0.85
1:A4:157:SER:HB2	3:D5:24:PRO:HA	1.58	0.85
1:AT:130:ILE:HD11	1:AT:135:VAL:HG12	1.59	0.85
1:AD:130:ILE:HD11	1:AD:135:VAL:HG12	1.59	0.85
2:CM:73:GLN:HE21	2:CM:73:GLN:HA	1.41	0.85
2:CQ:73:GLN:HA	2:CQ:73:GLN:HE21	1.41	0.85
2:CU:115:ASN:HA	3:DG:119:LYS:HD2	245.55	0.84
2:CP:115:ASN:HA	3:D1:119:LYS:HD2	1.59	0.84
2:CT:46:THR:HG21	3:EB:165:ASP:HA	189.20	0.84
3:D9:222:LEU:HD13	3:D9:223:PRO:HD2	1.57	0.84
3:DZ:222:LEU:HD13	3:DZ:223:PRO:HD2	1.57	0.84
1:AD:187:LEU:HD22	1:AD:188:PRO:CD	2.06	0.84
3:D8:8:VAL:HG12	3:D8:9:PRO:HD2	1.56	0.84
1:BF:187:LEU:HD22	1:BF:188:PRO:CD	2.06	0.84
1:BC:187:LEU:HD22	1:BC:188:PRO:CD	2.06	0.84
1:BB:130:ILE:HD11	1:BB:135:VAL:HG12	1.59	0.84
1:AK:130:ILE:HD11	1:AK:135:VAL:HG12	1.59	0.84
1:AH:130:ILE:HD11	1:AH:135:VAL:HG12	1.59	0.84
2:CO:226:LEU:HD23	3:DP:126:PRO:HG2	28.05	0.84
2:CA:226:LEU:HD23	3:DB:126:PRO:HG2	1.59	0.84
2:CL:73:GLN:HA	2:CL:73:GLN:HE21	1.41	0.84
2:CO:73:GLN:HA	2:CO:73:GLN:HE21	1.41	0.84
2:C7:73:GLN:HA	2:C7:73:GLN:HE21	1.41	0.84
2:CD:115:ASN:HA	3:D7:119:LYS:HD2	1.59	0.84
2:CA:115:ASN:HA	3:DW:119:LYS:HD2	1.59	0.84
2:CS:115:ASN:HA	3:DC:119:LYS:HD2	256.49	0.84
1:AJ:157:SER:HB2	3:DL:24:PRO:HA	246.35	0.84
1:AG:157:SER:HB2	3:DG:24:PRO:HA	1.58	0.84
1:BH:157:SER:HB2	3:ED:24:PRO:HA	1.58	0.84
3:EB:222:LEU:HD13	3:EB:223:PRO:HD2	1.57	0.84
1:AB:130:ILE:HD11	1:AB:135:VAL:HG12	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:130:ILE:HD11	1:A6:135:VAL:HG12	1.59	0.84
2:CN:226:LEU:HD23	3:DO:126:PRO:HG2	1.59	0.84
2:CK:226:LEU:HD23	3:DL:126:PRO:HG2	1.59	0.84
2:C1:73:GLN:HA	2:C1:73:GLN:HE21	1.41	0.84
2:CD:73:GLN:HE21	2:CD:73:GLN:HA	1.42	0.84
2:CC:115:ASN:HA	3:DN:119:LYS:HD2	157.76	0.84
2:CU:115:ASN:HA	3:D5:119:LYS:HD2	255.47	0.84
2:C5:115:ASN:HA	3:DG:119:LYS:HD2	1.59	0.84
1:A8:102:VAL:HG22	1:A8:199:SER:HB2	1.58	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:BB:157:SER:HB2	3:DQ:24:PRO:HA	129.97	0.84
1:AW:157:SER:HB2	3:DX:24:PRO:HA	1.58	0.84
3:D3:8:VAL:HG12	3:D3:9:PRO:HD2	1.56	0.84
1:AZ:187:LEU:HD22	1:AZ:188:PRO:CD	2.06	0.84
1:BA:187:LEU:HD22	1:BA:188:PRO:CD	2.06	0.84
1:A1:187:LEU:HD22	1:A1:188:PRO:CD	2.06	0.84
1:AE:130:ILE:HD11	1:AE:135:VAL:HG12	1.59	0.84
1:BG:130:ILE:HD11	1:BG:135:VAL:HG12	1.59	0.84
2:CX:73:GLN:HA	2:CX:73:GLN:HE21	1.41	0.84
2:C5:226:LEU:HD23	3:D6:126:PRO:HG2	1.59	0.84
2:CW:115:ASN:HA	3:DJ:119:LYS:HD2	1.59	0.84
2:C9:115:ASN:HA	3:DL:119:LYS:HD2	89.41	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:AO:102:VAL:HG22	1:AO:199:SER:HB2	1.58	0.84
1:BC:157:SER:HB2	3:DR:24:PRO:HA	140.19	0.84
1:AJ:157:SER:HB2	3:DJ:24:PRO:HA	1.58	0.84
1:BD:187:LEU:HD22	1:BD:188:PRO:CD	2.06	0.84
1:AI:187:LEU:HD22	1:AI:188:PRO:CD	2.06	0.84
1:AV:187:LEU:HD22	1:AV: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:CI:226:LEU:HD23	3:DE:126:PRO:HG2	133.81	0.84
2:CX:226:LEU:HD23	3:EA:126:PRO:HG2	150.19	0.84
2:CM:115:ASN:HA	3:DD:119:LYS:HD2	157.76	0.84
2:CM:115:ASN:HA	3:DI:119:LYS:HD2	256.49	0.84
2:CX:115:ASN:HA	3:DO:119:LYS:HD2	213.06	0.84
1:A8:206:GLY:CA	1:AB:121:LEU:HD11	231.03	0.84
1:AD:121:LEU:HD11	1:AE:206:GLY:CA	2.08	0.84
1:AF:102:VAL:HG22	1:AF:199:SER:HB2	1.58	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: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:AE:187:LEU:HD22	1:AE: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
2:CE:226:LEU:HD23	3:DF:126:PRO:HG2	28.05	0.84
2:CD:226:LEU:HD23	3:D9:126:PRO:HG2	150.19	0.84
2:C2:226:LEU:HD23	3:D3:126:PRO:HG2	1.59	0.84
2:C2:73:GLN:HE21	2:C2:73:GLN:HA	1.41	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:CR:115:ASN:HA	3:DI:119:LYS:HD2	157.76	0.84
2:CA:104:VAL:CG1	2:CA:222:VAL:HG22	2.06	0.84
1:AH:121:LEU:HD11	1:AI:206:GLY:CA	2.08	0.84
1:AM:157:SER:HB2	3:DO:24:PRO:HA	38.68	0.84
1:AL:157:SER:HB2	3:DN:24:PRO:HA	38.68	0.84
1:AU:121:LEU:HD11	1:AV:206:GLY:CA	2.08	0.84
1:AO:130:ILE:HD11	1:AO:135:VAL:HG12	1.59	0.84
1:AA:130:ILE:HD11	1:AA:135:VAL:HG12	1.59	0.84
2:CU:156:SER:HB3	3:DU:51:TYR:HE1	1.39	0.84
1:AV:130:ILE:HD11	1:AV:135:VAL:HG12	1.59	0.84
2:CP:226:LEU:HD23	3:DQ:126:PRO:HG2	1.59	0.84
2:C5:73:GLN:HA	2:C5:73:GLN:HE21	1.41	0.84
3:DI:191:LEU:HD22	3:DI:192:THR:N	1.93	0.84
2:CA:115:ASN:HA	3:DL:119:LYS:HD2	255.48	0.84
2:C6:115:ASN:HA	3:DE:119:LYS:HD2	1.59	0.84
1:AN:121:LEU:HD11	1:AO:206:GLY:CA	2.08	0.84
1:BC:121:LEU:HD11	1:BD:206:GLY:CA	2.08	0.84
1:AE:157:SER:HB2	3:DE:24:PRO:HA	1.58	0.84
1:AT:157:SER:HB2	3:DU:24:PRO:HA	1.58	0.84
1:A2:157:SER:HB2	3:D3:24:PRO:HA	1.58	0.84
1:A1:157:SER:HB2	3:D2:24:PRO:HA	1.58	0.84
3:D2:8:VAL:HG12	3:D2:9:PRO:HD2	1.56	0.84
1:AW:130:ILE:HD11	1:AW:135:VAL:HG12	1.59	0.84
2:CO:226:LEU:HD23	3:DK:126:PRO:HG2	1.59	0.84
2:CL:226:LEU:HD23	3:DM:126:PRO:HG2	1.59	0.84
2:CJ:104:VAL:CG1	2:CJ:222:VAL:HG22	2.06	0.84
1:AB:121:LEU:HD11	1:AC:206:GLY:CA	2.08	0.84
1:AP:121:LEU:HD11	1:AQ:206:GLY:CA	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:206:GLY:CA	1:AS:121:LEU:HD11	2.08	0.84
1:BA:121:LEU:HD11	1:BB:206:GLY:CA	2.08	0.84
3:D4:8:VAL:HG12	3:D4:9:PRO:HD2	1.56	0.84
1:BG:121:LEU:HD11	1:BH:206:GLY:CA	2.08	0.84
1:AG:187:LEU:HD22	1:AG:188:PRO:CD	2.06	0.84
1:A1:130:ILE:HD11	1:A1:135:VAL:HG12	1.59	0.84
1:BH:130:ILE:HD11	1:BH:135:VAL:HG12	1.59	0.84
3:DP:53:PHE:HE2	3:DP:205:LEU:HB3	1.43	0.84
3:DQ:53:PHE:HE2	3:DQ:205:LEU:HB3	1.43	0.84
2:CF:73:GLN:HA	2:CF:73:GLN:HE21	1.41	0.84
2:C7:63:THR:HG21	3:DM:188:LEU:HD11	145.62	0.84
2:CQ:63:THR:HG21	3:DY:188:LEU:HD11	118.01	0.84
3:DW:191:LEU:HD22	3:DW:192:THR:N	1.93	0.84
2:CB:115:ASN:HA	3:DF:119:LYS:HD2	142.97	0.84
2:CE:63:THR:HG21	3:DF:188:LEU:HD11	1.60	0.84
2:CW:104:VAL:CG1	2:CW:222:VAL:HG22	2.06	0.84
2:C7:104:VAL:CG1	2:C7:222:VAL:HG22	2.06	0.84
2:C3:104:VAL:CG1	2:C3:222:VAL:HG22	2.06	0.84
1:A0:130:ILE:HD11	1:A0:135:VAL:HG12	1.59	0.84
3:DM:53:PHE:HE2	3:DM:205:LEU:HB3	1.43	0.84
3:DY:53:PHE:HE2	3:DY:205:LEU:HB3	1.43	0.84
2:CW:226:LEU:HD23	3:EE:126:PRO:HG2	205.11	0.84
3:DI:53:PHE:HE2	3:DI:205:LEU:HB3	1.43	0.84
2:C8:73:GLN:HE21	2:C8:73:GLN:HA	1.41	0.84
3:DH:53:PHE:HE2	3:DH:205:LEU:HB3	1.43	0.84
2:CM:63:THR:HG21	3:DI:188:LEU:HD11	251.31	0.84
3:DH:191:LEU:HD22	3:DH:192:THR:N	1.93	0.84
2:C1:115:ASN:HA	3:DO:119:LYS:HD2	1.59	0.84
2:CQ:115:ASN:HA	3:DP:119:LYS:HD2	110.30	0.84
3:DR:191:LEU:HD22	3:DR:192:THR:N	1.93	0.84
2:C0:63:THR:HG21	3:DQ:188:LEU:HD11	1.60	0.84
2:C6:63:THR:HG21	3:DE:188:LEU:HD11	1.60	0.84
2:C3:115:ASN:HA	3:DU:119:LYS:HD2	1.59	0.84
1:AG:121:LEU:HD11	1:AH:206:GLY:CA	2.08	0.84
1:AF:121:LEU:HD11	1:AG:206:GLY:CA	2.08	0.84
1:BB:102:VAL:HG22	1:BB:199:SER:HB2	1.58	0.84
1:A3:157:SER:HB2	3:D4:24:PRO:HA	1.58	0.84
1:AU:130:ILE:HD11	1:AU:135:VAL:HG12	1.59	0.84
2:C9:226:LEU:HD23	3:DA:126:PRO:HG2	221.51	0.84
2:CX:226:LEU:HD23	3:DY:126:PRO:HG2	1.59	0.84
2:CW:226:LEU:HD23	3:DX:126:PRO:HG2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DN:53:PHE:HE2	3:DN:205:LEU:HB3	1.43	0.84
3:EC:53:PHE:HE2	3:EC:205:LEU:HB3	1.43	0.84
2:C8:156:SER:HB3	3:D8:51:TYR:HE1	1.40	0.84
3:DF:53:PHE:HE2	3:DF:205:LEU:HB3	1.43	0.84
3:DS:191:LEU:HD22	3:DS:192:THR:N	1.93	0.83
3:DX:191:LEU:HD22	3:DX:192:THR:N	1.93	0.83
2:CK:63:THR:HG21	3:DA:188:LEU:HD11	261.54	0.83
2:CJ:115:ASN:HA	3:DM:119:LYS:HD2	229.53	0.83
2:CL:115:ASN:HA	3:DK:119:LYS:HD2	110.30	0.83
2:CG:63:THR:HG21	3:EB:188:LEU:HD11	1.60	0.83
3:DT:191:LEU:HD22	3:DT:192:THR:N	1.93	0.83
1:AF:157:SER:HB2	3:DH:24:PRO:HA	38.68	0.83
1:BE:206:GLY:CA	1:BI:121:LEU:HD11	2.08	0.83
1:AK:157:SER:HB2	3:DK:24:PRO:HA	1.58	0.83
1:A9:187:LEU:HD22	1:A9:188:PRO:CD	2.06	0.83
2:CE:226:LEU:HD23	3:DA:126:PRO:HG2	1.59	0.83
2:CB:226:LEU:HD23	3:DC:126:PRO:HG2	1.59	0.83
3:DU:53:PHE:HE2	3:DU:205:LEU:HB3	1.43	0.83
2:CF:120:HIS:NE2	2:CF:205:PRO:HD2	1.93	0.83
2:CX:120:HIS:NE2	2:CX:205:PRO:HD2	1.93	0.83
2:CL:120:HIS:NE2	2:CL:205:PRO:HD2	1.93	0.83
2:CG:226:LEU:HD23	3:DH:126:PRO:HG2	1.59	0.83
2:C8:115:ASN:HA	3:D9:119:LYS:HD2	1.59	0.83
2:C8:63:THR:HG21	3:D9:188:LEU:HD11	1.60	0.83
2:CC:63:THR:HG21	3:ED:188:LEU:HD11	234.33	0.83
2:CI:115:ASN:HA	3:DJ:119:LYS:HD2	66.21	0.83
2:CR:63:THR:HG21	3:DI:188:LEU:HD11	156.55	0.83
2:CT:63:THR:HG21	3:DK:188:LEU:HD11	1.60	0.83
3:DK:191:LEU:HD22	3:DK:192:THR:N	1.93	0.83
2:C1:63:THR:HG21	3:DO:188:LEU:HD11	1.60	0.83
2:CQ:63:THR:HG21	3:DP:188:LEU:HD11	115.93	0.83
2:CY:63:THR:HG21	3:DZ:188:LEU:HD11	1.60	0.83
3:DC:191:LEU:HD22	3:DC:192:THR:N	1.93	0.83
3:DV:191:LEU:HD22	3:DV:192:THR:N	1.93	0.83
1:AA:206:GLY:CA	1:AE:121:LEU:HD11	2.08	0.83
1:AE:121:LEU:HD11	1:AF:206:GLY:CA	137.31	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:AO:121:LEU:HD11	1:AS:206:GLY:CA	124.37	0.83
1:AT:206:GLY:CA	1:AX:121:LEU:HD11	2.08	0.83
1:BE:121:LEU:HD11	1:BF:206:GLY:CA	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:121:LEU:HD11	1:BI:206:GLY:CA	2.08	0.83
1:AY:121:LEU:HD11	1:AZ:206:GLY:CA	2.08	0.83
1:A3:130:ILE:HD11	1:A3:135:VAL:HG12	1.59	0.83
1:BC:130:ILE:HD11	1:BC:135:VAL:HG12	1.59	0.83
2:C9:15:GLU:HG3	2:C9:29:SER:HB3	1.61	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	1.93	0.83
2:C9:120:HIS:NE2	2:C9:205:PRO:HD2	1.94	0.83
3:DJ:53:PHE:HE2	3:DJ:205:LEU:HB3	1.43	0.83
2:C6:15:GLU:HG3	2:C6:29:SER:HB3	1.61	0.83
2:CI:115:ASN:HA	3:DX:119:LYS:HD2	1.59	0.83
3:DN:191:LEU:HD22	3:DN:192:THR:N	1.93	0.83
2:CM:63:THR:HG21	3:DD:188:LEU:HD11	156.55	0.83
3:EE:191:LEU:HD22	3:EE:192:THR:N	1.93	0.83
2:CU:63:THR:HG21	3:DG:188:LEU:HD11	233.53	0.83
2:CX:115:ASN:HA	3:DR:119:LYS:HD2	152.73	0.83
2:CZ:63:THR:HG21	3:DQ:188:LEU:HD11	84.55	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
1:AK:83:GLU:HB2	1:AK:212:ARG:HB3	1.60	0.83
1:A0:121:LEU:HD11	1:A1:206:GLY:CA	2.08	0.83
1:BB:187:LEU:HD22	1:BB:188:PRO:CD	2.06	0.83
2:CJ:226:LEU:HD23	3:DK:126:PRO:HG2	263.60	0.83
3:DT:53:PHE:HE2	3:DT:205:LEU:HB3	1.43	0.83
3:DL:53:PHE:HE2	3:DL:205:LEU:HB3	1.43	0.83
2:CU:226:LEU:HD23	3:DV:126:PRO:HG2	1.59	0.83
2:CQ:120:HIS:NE2	2:CQ:205:PRO:HD2	1.94	0.83
2:CD:15:GLU:HG3	2:CD:29:SER:HB3	1.60	0.83
2:CT:73:GLN:HE21	2:CT:73:GLN:HA	1.41	0.83
2:CQ:226:LEU:HD23	3:DR:126:PRO:HG2	1.59	0.83
2:CT:120:HIS:NE2	2:CT:205:PRO:HD2	1.94	0.83
2:CP:15:GLU:HG3	2:CP:29:SER:HB3	1.61	0.83
3:DX:53:PHE:HE2	3:DX:205:LEU:HB3	1.43	0.83
2:C7:115:ASN:HA	3:DM:119:LYS:HD2	152.72	0.83
2:CE:115:ASN:HA	3:DF:119:LYS:HD2	1.59	0.83
3:DE:103:SER:O	3:DE:211:GLY:HA3	1.79	0.83
3:EE:103:SER:O	3:EE:211:GLY:HA3	1.79	0.83
2:CK:104:VAL:CG1	2:CK:222:VAL:HG22	2.06	0.83
1:AC:83:GLU:HB2	1:AC:212:ARG:HB3	1.61	0.83
1:AJ:83:GLU:HB2	1:AJ:212:ARG:HB3	1.60	0.83
1:AK:157:SER:HB2	3:DM:24:PRO:HA	38.68	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:CS:226:LEU:HD23	3:DT:126:PRO:HG2	1.59	0.83
3:DG:53:PHE:HE2	3:DG:205:LEU:HB3	1.43	0.83
2:CN:120:HIS:NE2	2:CN:205:PRO:HD2	1.93	0.83
2:CC:226:LEU:HD23	3:DD:126:PRO:HG2	1.59	0.83
2:CG:120:HIS:NE2	2:CG:205:PRO:HD2	1.94	0.83
2:CC:15:GLU:HG3	2:CC:29:SER:HB3	1.60	0.83
2:CI:120:HIS:NE2	2:CI:205:PRO:HD2	1.94	0.83
2:CS:120:HIS:NE2	2:CS:205:PRO:HD2	1.93	0.83
2:CJ:120:HIS:NE2	2:CJ:205:PRO:HD2	1.94	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
3:DA:191:LEU:HD22	3:DA:192:THR:N	1.93	0.83
2:CF:63:THR:HG21	3:D6:188:LEU:HD11	1.60	0.83
1:BF:13:THR:HB	3:EB:157:ASN:CB	2.09	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
2:CX:104:VAL:CG1	2:CX:222:VAL:HG22	2.06	0.83
3:D7:103:SER:O	3:D7:211:GLY:HA3	1.79	0.83
2:CI:104:VAL:CG1	2:CI:222:VAL:HG22	2.06	0.83
1:AO:206:GLY:CA	1:AR:121:LEU:HD11	138.53	0.83
1:BE:102:VAL:HG22	1:BE:199:SER:HB2	1.58	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
2:CH:15:GLU:HG3	2:CH:29:SER:HB3	1.61	0.83
2:C0:226:LEU:HD23	3:D1:126:PRO:HG2	1.59	0.83
1:AI:70:ARG:O	1:AI:71:LEU:HB2	1.79	0.83
2:C7:226:LEU:HD23	3:D8:126:PRO:HG2	1.59	0.83
1:A3:70:ARG:O	1:A3:71:LEU:HB2	1.79	0.83
2:CY:120:HIS:NE2	2:CY:205:PRO:HD2	1.94	0.83
2:CF:226:LEU:HD23	3:DG:126:PRO:HG2	1.59	0.83
1:AE:70:ARG:O	1:AE:71:LEU:HB2	1.79	0.83
2:CK:73:GLN:HA	2:CK:73:GLN:HE21	1.42	0.83
2:CD:120:HIS:NE2	2:CD:205:PRO:HD2	1.93	0.83
2:CV:120:HIS:NE2	2:CV:205:PRO:HD2	1.93	0.83
2:CC:63:THR:HG21	3:DN:188:LEU:HD11	156.55	0.83
2:CJ:115:ASN:HA	3:DA:119:LYS:HD2	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:191:LEU:HD22	3:D8:192:THR:N	1.93	0.83
3:DP:191:LEU:HD22	3:DP:192:THR:N	1.93	0.83
3:DY:191:LEU:HD22	3:DY:192:THR:N	1.93	0.83
2:CG:115:ASN:HA	3:EB:119:LYS:HD2	1.59	0.83
2:C0:115:ASN:HA	3:DQ:119:LYS:HD2	1.59	0.83
3:DL:191:LEU:HD22	3:DL:192:THR:N	1.93	0.83
2:CF:63:THR:HG21	3:DV:188:LEU:HD11	188.86	0.83
1:AG:13:THR:HB	3:DI:157:ASN:CB	103.21	0.83
3:DG:103:SER:O	3:DG:211:GLY:HA3	1.79	0.83
3:DR:103:SER:O	3:DR:211:GLY:HA3	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	266.45	0.83
1:BG:157:SER:HB2	3:EC:24:PRO:HA	1.58	0.83
1:A0:83:GLU:HB2	1:A0:212:ARG:HB3	1.61	0.83
2:CX:122:GLY:HA2	2:CX:200:SER:O	1.79	0.83
3:EE:53:PHE:HE2	3:EE:205:LEU:HB3	1.43	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:C3:122:GLY:HA2	2:C3:200:SER:O	1.79	0.83
1:A1:70:ARG:O	1:A1:71:LEU:HB2	1.79	0.83
2:CE:122:GLY:HA2	2:CE:200:SER:O	1.79	0.83
2:CR:122:GLY:HA2	2:CR:200:SER:O	1.79	0.83
3:ED:191:LEU:HD22	3:ED:192:THR:N	1.93	0.83
2:CA:63:THR:HG21	3:DW:188:LEU:HD11	1.60	0.83
3:D2:191:LEU:HD22	3:D2:192:THR:N	1.93	0.83
2:CB:115:ASN:HA	3:DT:119:LYS:HD2	256.49	0.83
3:DW:103:SER:O	3:DW:211:GLY:HA3	1.79	0.83
1:A7:13:THR:HB	3:D8:157:ASN:CB	2.09	0.83
1:AG:83:GLU:HB2	1:AG:212:ARG:HB3	1.60	0.83
1:AJ:121:LEU:HD11	1:AK:206:GLY:CA	293.31	0.83
1:AS:83:GLU:HB2	1:AS:212:ARG:HB3	1.60	0.83
1:AM:206:GLY:CA	1:BD:121:LEU:HD11	251.62	0.83
1:BF:121:LEU:HD11	1:BG:206:GLY:CA	2.08	0.83
1:A6:121:LEU:HD21	1:A7:207:CYS:N	1.94	0.83
1:A7:83:GLU:HB2	1:A7:212:ARG:HB3	1.61	0.83
1:A4:130:ILE:HD11	1:A4:135:VAL:HG12	1.59	0.83
2:CQ:122:GLY:HA2	2:CQ:200:SER:O	1.79	0.83
3:EA:53:PHE:HE2	3:EA:205:LEU:HB3	1.43	0.83
3:D3:53:PHE:HE2	3:D3:205:LEU:HB3	1.43	0.83
1:A2:70:ARG:O	1:A2:71:LEU:HB2	1.79	0.83
2:CO:15:GLU:HG3	2:CO:29:SER:HB3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:70:ARG:O	1:BF:71:LEU:HB2	1.79	0.83
3:D9:53:PHE:HE2	3:D9:205:LEU:HB3	1.43	0.83
1:AV:70:ARG:O	1:AV:71:LEU:HB2	1.79	0.83
3:DA:53:PHE:HE2	3:DA:205:LEU:HB3	1.43	0.83
2:CH:120:HIS:NE2	2:CH:205:PRO:HD2	1.93	0.83
1:AB:70:ARG:O	1:AB:71:LEU:HB2	1.79	0.83
3:DW:53:PHE:HE2	3:DW:205:LEU:HB3	1.43	0.83
1:AK:70:ARG:O	1:AK:71:LEU:HB2	1.79	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:CB:120:HIS:NE2	2:CB:205:PRO:HD2	1.94	0.83
2:C3:73:GLN:HA	2:C3:73:GLN:HE21	1.41	0.83
2:CH:226:LEU:HD23	3:DI:126:PRO:HG2	1.59	0.83
2:CX:15:GLU:HG3	2:CX:29:SER:HB3	1.61	0.83
2:CT:115:ASN:HA	3:DH:119:LYS:HD2	222.77	0.83
2:C5:63:THR:HG21	3:DG:188:LEU:HD11	1.60	0.83
3:EA:191:LEU:HD22	3:EA:192:THR:N	1.93	0.83
3:DA:103:SER:O	3:DA:211:GLY:HA3	1.79	0.83
3:DD:103:SER:O	3:DD:211:GLY:HA3	1.79	0.83
3:DO:103:SER:O	3:DO:211:GLY:HA3	1.79	0.83
3:EB:103:SER:O	3:EB:211:GLY:HA3	1.79	0.83
3:DU:103:SER:O	3:DU:211:GLY:HA3	1.79	0.83
1:A8:121:LEU:HD11	1:A9:206:GLY:CA	2.08	0.83
1:A8:157:SER:HB2	3:D9:24:PRO:HA	1.58	0.83
1:A8:121:LEU:HD21	1:A9:207:CYS:N	1.94	0.83
1:AE:83:GLU:HB2	1:AE:212:ARG:HB3	1.61	0.83
1:AL:121:LEU:HD21	1:AM:207:CYS:N	1.94	0.83
1:AA:207:CYS:N	1:AN:121:LEU:HD21	263.35	0.83
1:AK:207:CYS:N	1:AO:121:LEU:HD21	1.94	0.83
1:AQ:102:VAL:HG22	1:AQ:199:SER:HB2	1.58	0.83
1:AU:83:GLU:HB2	1:AU:212:ARG:HB3	1.60	0.83
1:AW:121:LEU:HD11	1:AX:206:GLY:CA	2.08	0.83
1:BG:83:GLU:HB2	1:BG:212:ARG:HB3	1.60	0.83
1:AQ:157:SER:HB2	3:DQ:24:PRO:HA	1.58	0.83
1:AU:121:LEU:HD21	1:AV:207:CYS:N	1.94	0.83
1:A3:121:LEU:HD11	1:A4:206:GLY:CA	2.08	0.83
2:CH:122:GLY:HA2	2:CH:200:SER:O	1.79	0.83
2:CA:122:GLY:HA2	2:CA:200:SER:O	1.79	0.83
2:CZ:226:LEU:HD23	3:D0:126:PRO:HG2	1.59	0.83
3:DK:53:PHE:HE2	3:DK:205:LEU:HB3	1.43	0.83
2:C3:120:HIS:NE2	2:C3:205:PRO:HD2	1.94	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:15:GLU:HG3	2:C8:29:SER:HB3	1.61	0.83
2:C1:226:LEU:HD23	3:D2:126:PRO:HG2	1.59	0.83
1:A8:70:ARG:O	1:A8:71:LEU:HB2	1.79	0.83
2:C5:120:HIS:NE2	2:C5:205:PRO:HD2	1.94	0.83
3:D5:53:PHE:HE2	3:D5:205:LEU:HB3	1.43	0.83
1:AN:70:ARG:O	1:AN:71:LEU:HB2	1.79	0.83
2:CU:120:HIS:NE2	2:CU:205:PRO:HD2	1.94	0.83
2:CC:120:HIS:NE2	2:CC:205:PRO:HD2	1.94	0.83
2:C2:63:THR:HG21	3:DH:188:LEU:HD11	250.90	0.83
3:D4:191:LEU:HD22	3:D4:192:THR:N	1.93	0.83
2:CQ:115:ASN:HA	3:DY:119:LYS:HD2	111.88	0.83
3:D0:191:LEU:HD22	3:D0:192:THR:N	1.93	0.83
1:AL:13:THR:HB	3:DN:157:ASN:CB	103.21	0.83
3:DK:103:SER:O	3:DK:211:GLY:HA3	1.79	0.83
3:D5:103:SER:O	3:D5:211:GLY:HA3	1.79	0.83
3:D3:103:SER:O	3:D3:211:GLY:HA3	1.79	0.83
1:AX:13:THR:HB	3:DY:157:ASN:CB	2.09	0.83
3:D2:103:SER:O	3:D2:211:GLY:HA3	1.79	0.83
1:AB:83:GLU:HB2	1:AB:212:ARG:HB3	1.60	0.83
1:AF:83:GLU:HB2	1:AF:212:ARG:HB3	1.61	0.83
1:AC:207:CYS:N	1:AG:121:LEU:HD21	188.67	0.83
1:BB:83:GLU:HB2	1:BB:212:ARG:HB3	1.61	0.83
1:AU:157:SER:HB2	3:DV:24:PRO:HA	1.58	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:AY:130:ILE:HD11	1:AY:135:VAL:HG12	1.59	0.83
2:CY:226:LEU:HD23	3:DU:126:PRO:HG2	1.59	0.83
2:C1:15:GLU:HG3	2:C1:29:SER:HB3	1.61	0.83
3:DZ:53:PHE:HE2	3:DZ:205:LEU:HB3	1.43	0.83
2:CN:15:GLU:HG3	2:CN:29:SER:HB3	1.61	0.83
2:CM:120:HIS:NE2	2:CM:205:PRO:HD2	1.94	0.83
2:CH:63:THR:HG21	3:DS:188:LEU:HD11	156.55	0.83
3:DJ:191:LEU:HD22	3:DJ:192:THR:N	1.93	0.83
2:CW:115:ASN:HA	3:DS:119:LYS:HD2	246.15	0.83
2:CV:63:THR:HG21	3:DD:188:LEU:HD11	137.83	0.83
2:CV:115:ASN:HA	3:DB:119:LYS:HD2	1.59	0.83
3:DB:191:LEU:HD22	3:DB:192:THR:N	1.93	0.83
2:CO:115:ASN:HA	3:DR:119:LYS:HD2	148.14	0.83
2:CO:63:THR:HG21	3:DP:188:LEU:HD11	1.60	0.83
3:DQ:191:LEU:HD22	3:DQ:192:THR:N	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D6:191:LEU:HD22	3:D6:192:THR:N	1.93	0.83
2:C4:63:THR:HG21	3:EC:188:LEU:HD11	1.60	0.83
3:DC:103:SER:O	3:DC:211:GLY:HA3	1.79	0.83
3:DL:103:SER:O	3:DL:211:GLY:HA3	1.79	0.83
1:BH:13:THR:HB	3:ED:157:ASN:CB	2.09	0.83
1:A0:13:THR:HB	3:D1:157:ASN:CB	2.09	0.83
1:AK:121:LEU:HD11	1:AL:206:GLY:CA	2.08	0.83
1:AK:121:LEU:HD21	1:AL:207:CYS:N	1.94	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: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: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
2:CD:226:LEU:HD23	3:DE:126:PRO:HG2	1.59	0.83
2:CJ:122:GLY:HA2	2:CJ:200:SER:O	1.79	0.83
2:CE:120:HIS:NE2	2:CE:205:PRO:HD2	1.93	0.83
2:CI:15:GLU:HG3	2:CI:29:SER:HB3	1.61	0.83
2:CK:15:GLU:HG3	2:CK:29:SER:HB3	1.60	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
2:CZ:120:HIS:NE2	2:CZ:205:PRO:HD2	1.93	0.83
2:CR:120:HIS:NE2	2:CR:205:PRO:HD2	1.94	0.83
1:AC:70:ARG:O	1:AC:71:LEU:HB2	1.79	0.83
2:C6:226:LEU:HD23	3:D7:126:PRO:HG2	1.59	0.83
1:AF:70:ARG:O	1:AF:71:LEU:HB2	1.79	0.83
2:CW:15:GLU:HG3	2:CW:29:SER:HB3	1.61	0.83
2:CH:115:ASN:HA	3:DS:119:LYS:HD2	157.76	0.82
2:CH:213:MET:HE3	2:CH:215:VAL:HG22	1.61	0.82
2:CL:63:THR:HG21	3:DK:188:LEU:HD11	115.93	0.82
2:CT:213:MET:HE3	2:CT:215:VAL:HG22	1.68	0.82
2:CZ:213:MET:HE3	2:CZ:215:VAL:HG22	1.61	0.82
3:DZ:191:LEU:HD22	3:DZ:192:THR:N	1.93	0.82
2:C3:63:THR:HG21	3:DU:188:LEU:HD11	1.60	0.82
2:CB:63:THR:HG21	3:DT:188:LEU:HD11	251.31	0.82
2:CP:213:MET:HE3	2:CP:215:VAL:HG22	1.66	0.82
3:D1:191:LEU:HD22	3:D1:192:THR:N	1.93	0.82
2:C4:115:ASN:HA	3:EC:119:LYS:HD2	1.59	0.82
3:EC:191:LEU:HD22	3:EC:192:THR:N	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:13:THR:HB	3:DL:157:ASN:CB	241.24	0.82
1:AN:13:THR:HB	3:DN:157:ASN:CB	2.09	0.82
1:A9:121:LEU:HD11	1:AN:206:GLY:CA	161.24	0.82
1:AH:206:GLY:CA	1:AL:121:LEU:HD11	295.28	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:AO:83:GLU:HB2	1:AO:212:ARG:HB3	1.61	0.82
1:BF:83:GLU:HB2	1:BF:212:ARG:HB3	1.60	0.82
1:A6:121:LEU:HD11	1:A7:206:GLY:CA	2.08	0.82
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:A8:130:ILE:HD11	1:A8:135:VAL:HG12	1.59	0.82
1:AR:70:ARG:O	1:AR:71:LEU:HB2	1.79	0.82
2:C4:122:GLY:HA2	2:C4:200:SER:O	1.79	0.82
2:CS:122:GLY:HA2	2:CS:200:SER:O	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:AQ:138:MET:HG3	3:DR:219:PRO:HB2	1.61	0.82
2:CG:15:GLU:HG3	2:CG:29:SER:HB3	1.61	0.82
2:CB:122:GLY:HA2	2:CB:200:SER:O	1.79	0.82
2:CU:63:THR:HG21	3:D5:188:LEU:HD11	250.90	0.82
3:DO:191:LEU:HD22	3:DO:192:THR:N	1.93	0.82
3:D3:191:LEU:HD22	3:D3:192:THR:N	1.93	0.82
3:EB:191:LEU:HD22	3:EB:192:THR:N	1.93	0.82
2:C9:63:THR:HG21	3:DL:188:LEU:HD11	84.55	0.82
2:CS:115:ASN:HA	3:EA:119:LYS:HD2	157.39	0.82
3:DS:103:SER:O	3:DS:211:GLY:HA3	1.79	0.82
2:CF:104:VAL:CG1	2:CF:222:VAL:HG22	2.06	0.82
1:AR:13:THR:HB	3:DR:157:ASN:CB	2.09	0.82
1:A5:13:THR:HB	3:D6:157:ASN:CB	2.09	0.82
1:AC:206:GLY:CA	1:AG:121:LEU:HD11	190.27	0.82
1:AH:121:LEU:HD21	1:AI:207:CYS:N	1.94	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:A3:206:GLY:CA	1:A7:121:LEU:HD11	2.08	0.82
1:BE:130:ILE:HD11	1:BE:135:VAL:HG12	1.59	0.82
2:CS:226:LEU:HD23	3:DO:126:PRO:HG2	133.81	0.82
2:CM:122:GLY:HA2	2:CM:200:SER:O	1.79	0.82
2:CG:122:GLY:HA2	2:CG:200:SER:O	1.79	0.82
3:DE:53:PHE:HE2	3:DE:205:LEU:HB3	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:CI:63:THR:HG21	3:DX:188:LEU:HD11	1.60	0.82
2:CH:63:THR:HG21	3:DN:188:LEU:HD11	251.31	0.82
2:C2:115:ASN:HA	3:DH:119:LYS:HD2	255.48	0.82
2:CT:63:THR:HG21	3:DH:188:LEU:HD11	222.53	0.82
2:CB:63:THR:HG21	3:DF:188:LEU:HD11	137.75	0.82
3:D9:103:SER:O	3:D9:211:GLY:HA3	1.79	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
1:AY:13:THR:HB	3:DZ:157:ASN:CB	2.09	0.82
3:D0:103:SER:O	3:D0:211:GLY:HA3	1.79	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:AM:83:GLU:HB2	1:AM:212:ARG:HB3	1.61	0.82
1:A9:121:LEU:HD21	1:AN:207:CYS:N	158.71	0.82
1:AM:121:LEU:HD11	1:BA:206:GLY:CA	231.03	0.82
1:AH:157:SER:HB2	3:DH:24:PRO:HA	1.58	0.82
1:A2:121:LEU:HD21	1:AY:207:CYS:N	1.94	0.82
2:CI:226:LEU:HD23	3:DJ:126:PRO:HG2	1.59	0.82
2:CP:122:GLY:HA2	2:CP:200:SER:O	1.79	0.82
2:CU:122:GLY:HA2	2:CU:200:SER:O	1.79	0.82
2:CL:122:GLY:HA2	2:CL:200:SER:O	1.79	0.82
2:CV:226:LEU:HD23	3:ED:126:PRO:HG2	249.93	0.82
2:CK:122:GLY:HA2	2:CK:200:SER:O	1.79	0.82
2:C5:122:GLY:HA2	2:C5:200:SER:O	1.79	0.82
1:AH:75:CYS:HB3	1:AH:218:MET:SD	2.20	0.82
2:CQ:15:GLU:HG3	2:CQ:29:SER:HB3	1.61	0.82
1:AQ:70:ARG:O	1:AQ:71:LEU:HB2	1.79	0.82
2:CA:15:GLU:HG3	2:CA:29:SER:HB3	1.60	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:CY:73:GLN:HA	2:CY:73:GLN:HE21	1.41	0.82
2:C1:120:HIS:NE2	2:C1:205:PRO:HD2	1.93	0.82
3:DM:191:LEU:HD22	3:DM:192:THR:N	1.93	0.82
3:D5:191:LEU:HD22	3:D5:192:THR:N	1.93	0.82
2:CO:63:THR:HG21	3:DR:188:LEU:HD11	137.83	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:EA:103:SER:O	3:EA:211:GLY:HA3	1.79	0.82
3:D8:103:SER:O	3:D8:211:GLY:HA3	1.79	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:AM:121:LEU:HD21	1:AN:207:CYS:N	1.94	0.82
1:A2:130:ILE:HD11	1:A2:135:VAL:HG12	1.59	0.82
3:DV:53:PHE:HE2	3:DV:205:LEU:HB3	1.43	0.82
2:CF:122:GLY:HA2	2:CF:200:SER:O	1.79	0.82
1:AM:75:CYS:HB3	1:AM:218:MET:SD	2.20	0.82
1:AJ:75:CYS:HB3	1:AJ:218:MET:SD	2.20	0.82
2:C1:122:GLY:HA2	2:C1:200:SER:O	1.79	0.82
3:D1:53:PHE:HE2	3:D1:205:LEU:HB3	1.43	0.82
2:CW:120:HIS:NE2	2:CW:205:PRO:HD2	1.93	0.82
2:C4:120:HIS:NE2	2:C4:205:PRO:HD2	1.93	0.82
2:CJ:15:GLU:HG3	2:CJ:29:SER:HB3	1.60	0.82
1:BB:70:ARG:O	1:BB:71:LEU:HB2	1.79	0.82
2:CM:15:GLU:HG3	2:CM:29:SER:HB3	1.60	0.82
1:AG:138:MET:HG3	3:DE:219:PRO:HB2	143.64	0.82
1:AE:138:MET:HG3	3:DA:219:PRO:HB2	1.62	0.82
2:CO:122:GLY:HA2	2:CO:200:SER:O	1.79	0.82
2:CC:122:GLY:HA2	2:CC:200:SER:O	1.79	0.82
2:C7:122:GLY:HA2	2:C7:200:SER:O	1.79	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	137.83	0.82
2:C6:213:MET:HE3	2:C6:215:VAL:HG22	1.62	0.82
2:CS:63:THR:HG21	3:EA:188:LEU:HD11	155.47	0.82
3:DM:103:SER:O	3:DM:211:GLY:HA3	1.79	0.82
3:D6:103:SER:O	3:D6:211:GLY:HA3	1.79	0.82
1:AE:121:LEU:HD21	1:AF:207:CYS:N	134.30	0.82
1:AL:83:GLU:HB2	1:AL:212:ARG:HB3	1.60	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:AA:75:CYS:HB3	1:AA:218:MET:SD	2.20	0.82
1:AX:138:MET:HG3	3:DU:219:PRO:HB2	1.61	0.82
2:CB:15:GLU:HG3	2:CB:29:SER:HB3	1.60	0.82
1:A8:75:CYS:HB3	1:A8:218:MET:SD	2.20	0.82
2:CL:15:GLU:HG3	2:CL:29:SER:HB3	1.61	0.82
1:AR:75:CYS:HB3	1:AR:218:MET:SD	2.20	0.82
1:AK:138:MET:HG3	3:DN:219:PRO:HB2	58.99	0.82
2:CW:63:THR:HG21	3:DS:188:LEU:HD11	234.33	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:D7:191:LEU:HD22	3:D7:192:THR:N	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:115:ASN:HA	3:DC:119:LYS:HD2	151.16	0.82
2:CF:115:ASN:HA	3:DV:119:LYS:HD2	179.44	0.82
1:AO:13:THR:HB	3:DO:157:ASN:CB	2.09	0.82
1:AK:13:THR:HB	3:DK:157:ASN:CB	2.09	0.82
1:BG:13:THR:HB	3:EC:157:ASN:CB	2.09	0.82
2:CR:104:VAL:CG1	2:CR:222:VAL:HG22	2.06	0.82
1:AA:121:LEU:HD21	1:AB:207:CYS:N	1.94	0.82
1:AY:121:LEU:HD21	1:AZ:207:CYS:N	1.94	0.82
1:A5:121:LEU:HD11	1:A6:206:GLY:CA	2.08	0.82
1:AB:115:THR:HG23	1:AB:133:LEU:H	1.45	0.82
1:AC:115:THR:HG23	1:AC:133:LEU:H	1.45	0.82
1:A1:115:THR:HG23	1:A1:133:LEU:H	1.45	0.82
1:AC:75:CYS:HB3	1:AC:218:MET:SD	2.20	0.82
1:AG:75:CYS:HB3	1:AG:218:MET:SD	2.20	0.82
1:AO:75:CYS:HB3	1:AO:218:MET:SD	2.20	0.82
3:DS:53:PHE:HE2	3:DS:205:LEU:HB3	1.43	0.82
1:AL:75:CYS:HB3	1:AL:218:MET:SD	2.20	0.82
1:AF:138:MET:HG3	3:DG:219:PRO:HB2	1.62	0.82
3:DO:53:PHE:HE2	3:DO:205:LEU:HB3	1.43	0.82
3:DC:53:PHE:HE2	3:DC:205:LEU:HB3	1.43	0.82
1:A5:75:CYS:HB3	1:A5:218:MET:SD	2.20	0.82
1:A2:138:MET:HG3	3:DZ:219:PRO:HB2	1.62	0.82
1:AY:75:CYS:HB3	1:AY:218:MET:SD	2.20	0.82
2:CO:120:HIS:NE2	2:CO:205:PRO:HD2	1.94	0.82
2:C0:15:GLU:HG3	2:C0:29:SER:HB3	1.60	0.82
2:CV:15:GLU:HG3	2:CV:29:SER:HB3	1.61	0.82
2:CD:122:GLY:HA2	2:CD:200:SER:O	1.79	0.82
3:DD:53:PHE:HE2	3:DD:205:LEU:HB3	1.43	0.82
2:CE:15:GLU:HG3	2:CE:29:SER:HB3	1.61	0.82
2:CF:15:GLU:HG3	2:CF:29:SER:HB3	1.61	0.82
2:CR:213:MET:HE3	2:CR:215:VAL:HG22	1.62	0.82
3:DU:191:LEU:HD22	3:DU:192:THR:N	1.93	0.82
1:AF:13:THR:HB	3:DH:157:ASN:CB	103.21	0.82
1:AK:13:THR:HB	3:DM:157:ASN:CB	103.21	0.82
3:DH:103:SER:O	3:DH:211:GLY:HA3	1.79	0.82
3:DY:103:SER:O	3:DY:211:GLY:HA3	1.79	0.82
3:ED:103:SER:O	3:ED:211:GLY:HA3	1.79	0.82
2:CE:104:VAL:CG1	2:CE:222:VAL:HG22	2.06	0.82
1:AF:206:GLY:CA	1:AJ:121:LEU:HD11	2.08	0.82
1:AO:207:CYS:N	1:AR:121:LEU:HD21	136.67	0.82
1:AP:121:LEU:HD21	1:AQ:207:CYS:N	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:83:GLU:HB2	1:AR:212:ARG:HB3	1.61	0.82
1:AV:121:LEU:HD11	1:AW:206:GLY:CA	2.08	0.82
1:BF:121:LEU:HD21	1:BG:207:CYS:N	1.94	0.82
1:AH:115:THR:HG23	1:AH:133:LEU:H	1.45	0.82
2:CT:122:GLY:HA2	2:CT:200:SER:O	1.79	0.82
1:AK:75:CYS:HB3	1:AK:218:MET:SD	2.20	0.82
1:AF:75:CYS:HB3	1:AF:218:MET:SD	2.20	0.82
1:AN:75:CYS:HB3	1:AN:218:MET:SD	2.20	0.82
1:A9:138:MET:HG3	3:DB:219:PRO:HB2	240.81	0.82
1:BF:75:CYS:HB3	1:BF:218:MET:SD	2.20	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
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
1:AX:70:ARG:O	1:AX:71:LEU:HB2	1.79	0.82
2:CX:63:THR:HG21	3:DR:188:LEU:HD11	145.62	0.82
2:CN:63:THR:HG21	3:D2:188:LEU:HD11	1.60	0.82
2:CE:63:THR:HG21	3:DC:188:LEU:HD11	143.54	0.82
1:AI:13:THR:HB	3:DK:157:ASN:CB	229.37	0.82
3:DF:103:SER:O	3:DF:211:GLY:HA3	1.79	0.82
2:C1:104:VAL:CG1	2:C1:222:VAL:HG22	2.06	0.82
3:DZ:103:SER:O	3:DZ:211:GLY:HA3	1.79	0.82
2:C5:104:VAL:CG1	2:C5:222:VAL:HG22	2.06	0.82
1:BA:121:LEU:HD21	1:BB:207:CYS:N	1.94	0.82
1:AV:83:GLU:HB2	1:AV:212:ARG:HB3	1.60	0.82
1:AZ:83:GLU:HB2	1:AZ:212:ARG:HB3	1.60	0.82
1:AE:115:THR:HG23	1:AE:133:LEU:H	1.45	0.82
1:AZ:115:THR:HG23	1:AZ:133:LEU:H	1.45	0.82
1:AU:115:THR:HG23	1:AU:133:LEU:H	1.45	0.82
2:CI:122:GLY:HA2	2:CI:200:SER:O	1.79	0.82
3:EB:53:PHE:HE2	3:EB:205:LEU:HB3	1.43	0.82
2:CU:226:LEU:HD23	3:EC:126:PRO:HG2	251.40	0.82
1:A9:75:CYS:HB3	1:A9:218:MET:SD	2.20	0.82
1:AG:70:ARG:O	1:AG:71:LEU:HB2	1.79	0.82
2:CW:122:GLY:HA2	2:CW:200:SER:O	1.79	0.82
2:CN:13:ARG:O	2:CN:27:GLN:HA	1.80	0.82
2:CK:13:ARG:O	2:CK:27:GLN:HA	1.80	0.82
1:AD:75:CYS:HB3	1:AD:218:MET:SD	2.20	0.82
2:CJ:13:ARG:O	2:CJ:27:GLN:HA	1.80	0.82
2:CL:13:ARG:O	2:CL:27:GLN:HA	1.80	0.82
2:CZ:13:ARG:O	2:CZ:27:GLN:HA	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A3:138:MET:HG3	3:D5:219:PRO:HB2	1.62	0.82
1:BI:138:MET:HG3	3:EA:219:PRO:HB2	1.61	0.82
1:AW:138:MET:HG3	3:DY:219:PRO:HB2	1.61	0.82
2:C0:120:HIS:NE2	2:C0:205:PRO:HD2	1.93	0.82
2:CJ:63:THR:HG21	3:DA:188:LEU:HD11	1.60	0.82
2:CJ:63:THR:HG21	3:DM:188:LEU:HD11	227.35	0.82
2:CP:63:THR:HG21	3:D0:188:LEU:HD11	83.93	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:AM:13:THR:HB	3:DM:157:ASN:CB	2.09	0.82
3:EC:103:SER:O	3:EC:211:GLY:HA3	1.79	0.82
2:CT:104:VAL:CG1	2:CT:222:VAL:HG22	2.06	0.82
1:AJ:121:LEU:HD21	1:AK:207:CYS:N	288.82	0.82
2:CO:156:SER:HB3	3:DO:51:TYR:CE1	2.15	0.82
1:AV:115:THR:HG23	1:AV:133:LEU:H	1.45	0.82
2:CT:226:LEU:HD23	3:EB:126:PRO:HG2	221.02	0.82
2:CY:122:GLY:HA2	2:CY:200:SER:O	1.79	0.82
2:C6:13:ARG:O	2:C6:27:GLN:HA	1.80	0.82
2:CT:13:ARG:O	2:CT:27:GLN:HA	1.80	0.82
3:ED:53:PHE:HE2	3:ED:205:LEU:HB3	1.43	0.82
2:CZ:122:GLY:HA2	2:CZ:200:SER:O	1.79	0.82
2:CA:13:ARG:O	2:CA:27:GLN:HA	1.80	0.82
2:CE:13:ARG:O	2:CE:27:GLN:HA	1.80	0.82
1:A4:75:CYS:HB3	1:A4:218:MET:SD	2.20	0.82
1:BH:75:CYS:HB3	1:BH:218:MET:SD	2.20	0.82
1:AS:70:ARG:O	1:AS:71:LEU:HB2	1.79	0.82
2:C2:15:GLU:HG3	2:C2:29:SER:HB3	1.60	0.82
1:AZ:75:CYS:HB3	1:AZ:218:MET:SD	2.20	0.82
1:A4:70:ARG:O	1:A4:71:LEU:HB2	1.79	0.82
2:CG:63:THR:HG21	3:D3:188:LEU:HD11	250.90	0.82
2:CA:213:MET:HE3	2:CA:215:VAL:HG22	1.62	0.82
1:AT:13:THR:HB	3:DU:157:ASN:CB	2.09	0.82
2:CP:104:VAL:CG1	2:CP:222:VAL:HG22	2.06	0.82
1:A8:207:CYS:N	1:AB:121:LEU:HD21	226.75	0.82
1:AX:83:GLU:HB2	1:AX:212:ARG:HB3	1.61	0.82
1:BD:83:GLU:HB2	1:BD:212:ARG:HB3	1.60	0.82
3:DB:1:ALA:HB2	3:DD:21:ASN:OD1	1.80	0.82
2:CM:156:SER:HB3	3:DM:51:TYR:CE1	2.15	0.82
2:CK:156:SER:HB3	3:DK:51:TYR:CE1	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:156:SER:HB3	3:D9:51:TYR:CE1	2.15	0.82
2:CL:156:SER:HB3	3:DL:51:TYR:CE1	2.15	0.82
1:AY:115:THR:HG23	1:AY:133:LEU:H	1.45	0.82
2:CD:13:ARG:O	2:CD:27:GLN:HA	1.80	0.82
2:C5:13:ARG:O	2:C5:27:GLN:HA	1.80	0.82
1:AI:75:CYS:HB3	1:AI:218:MET:SD	2.20	0.82
1:AE:138:MET:HG3	3:DH:219:PRO:HB2	140.29	0.82
2:C7:15:GLU:HG3	2:C7:29:SER:HB3	1.61	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:AW:75:CYS:HB3	1:AW:218:MET:SD	2.20	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:CR:63:THR:HG21	3:EE:188:LEU:HD11	1.60	0.81
2:CN:213:MET:HE3	2:CN:215:VAL:HG22	1.62	0.81
1:AA:13:THR:HB	3:DC:157:ASN:CB	103.21	0.81
1:A6:13:THR:HB	3:D7:157:ASN:CB	2.09	0.81
1:AD:83:GLU:HB2	1:AD:212:ARG:HB3	1.61	0.81
1:AH:207:CYS:N	1:AL:121:LEU:HD21	290.88	0.81
1:AO:121:LEU:HD21	1:AS:207:CYS:N	121.97	0.81
1:AP:207:CYS:N	1:AS:121:LEU:HD21	1.94	0.81
1:AM:121:LEU:HD21	1:BA:207:CYS:N	226.75	0.81
1:BH:121:LEU:HD21	1:BI:207:CYS:N	1.94	0.81
3:DA:1:ALA:HB2	3:DC:21:ASN:OD1	1.80	0.81
3:DE:1:ALA:HB2	3:DG:21:ASN:OD1	145.61	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:DK:1:ALA:HB2	3:DM:21:ASN:OD1	1.80	0.81
3:DL:1:ALA:HB2	3:DN: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
1:BG:121:LEU:HD21	1:BH:207:CYS:N	1.94	0.81
3:D0:1:ALA:HB2	3:D2:21:ASN:OD1	1.80	0.81
1:AJ:115:THR:HG23	1:AJ:133:LEU:H	1.45	0.81
2:CV:122:GLY:HA2	2:CV:200:SER:O	1.79	0.81
2:CP:13:ARG:O	2:CP:27:GLN:HA	1.80	0.81
3:DR:53:PHE:HE2	3:DR:205:LEU:HB3	1.43	0.81
2:CI:13:ARG:O	2:CI:27:GLN:HA	1.80	0.81
2:CW:13:ARG:O	2:CW:27:GLN:HA	1.80	0.81
3:DB:53:PHE:HE2	3:DB:205:LEU:HB3	1.43	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)
2:CV:13:ARG:O	2:CV:27:GLN:HA	1.80	0.81
1:AH:70:ARG:O	1:AH:71:LEU:HB2	1.79	0.81
1:BG:75:CYS:HB3	1:BG:218:MET:SD	2.20	0.81
2:C7:120:HIS:NE2	2:C7:205:PRO:HD2	1.94	0.81
1:AV:75:CYS:HB3	1:AV:218:MET:SD	2.20	0.81
3:D9:191:LEU:HD22	3:D9:192:THR:N	1.93	0.81
2:CC:115:ASN:HA	3:ED:119:LYS:HD2	246.15	0.81
2:CI:63:THR:HG21	3:DJ:188:LEU:HD11	44.67	0.81
1:AB:13:THR:HB	3:DD:157:ASN:CB	103.21	0.81
3:D1:103:SER:O	3:D1:211:GLY:HA3	1.79	0.81
1:BE:207:CYS:N	1:BI:121:LEU:HD21	1.94	0.81
3:D9:21:ASN:OD1	3:DC:1:ALA:HB2	199.24	0.81
1:A4:83:GLU:HB2	1:A4:212:ARG:HB3	1.60	0.81
1:BE:115:THR:HG23	1:BE:133:LEU:H	1.45	0.81
1:AT:115:THR:HG23	1:AT:133:LEU:H	1.45	0.81
1:AI:115:THR:HG23	1:AI:133:LEU:H	1.45	0.81
2:CX:156:SER:HB3	3:EE:51:TYR:CE1	170.10	0.81
1:BC:115:THR:HG23	1:BC:133:LEU:H	1.45	0.81
2:CO:13:ARG:O	2:CO:27:GLN:HA	1.80	0.81
2:CM:13:ARG:O	2:CM:27:GLN:HA	1.80	0.81
1:AC:138:MET:HG3	3:DF:219:PRO:HB2	122.50	0.81
2:CS:13:ARG:O	2:CS:27:GLN:HA	1.80	0.81
2:C2:13:ARG:O	2:C2:27:GLN:HA	1.80	0.81
3:DD:63:GLU:HG2	3:DD:201:LYS:HD3	1.62	0.81
2:C8:122:GLY:HA2	2:C8:200:SER:O	1.79	0.81
2:C2:122:GLY:HA2	2:C2:200:SER:O	1.79	0.81
3:D2:53:PHE:HE2	3:D2:205:LEU:HB3	1.43	0.81
1:AP:75:CYS:HB3	1:AP:218:MET:SD	2.20	0.81
2:CU:15:GLU:HG3	2:CU:29:SER:HB3	1.61	0.81
1:AL:70:ARG:O	1:AL:71:LEU:HB2	1.79	0.81
2:CV:63:THR:HG21	3:DB:188:LEU:HD11	1.60	0.81
3:DT:103:SER:O	3:DT:211:GLY:HA3	1.79	0.81
1:AQ:13:THR:HB	3:DQ:157:ASN:CB	2.09	0.81
1:AU:13:THR:HB	3:DV:157:ASN:CB	2.09	0.81
1:BC:13:THR:HB	3:DR:157:ASN:CB	133.73	0.81
1:A9:83:GLU:HB2	1:A9:212:ARG:HB3	1.61	0.81
1:AW:83:GLU:HB2	1:AW:212:ARG:HB3	1.61	0.81
1:BE:121:LEU:HD21	1:BF:207:CYS:N	1.94	0.81
3:DK:21:ASN:OD1	3:DN:1:ALA:HB2	1.80	0.81
1:A8:83:GLU:HB2	1:A8:212:ARG:HB3	1.61	0.81
1:AA:207:CYS:N	1:AE:121:LEU:HD21	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:121:LEU:HD21	1:AO:207:CYS:N	1.94	0.81
3:DF:21:ASN:OD1	3:DI:1:ALA:HB2	1.80	0.81
3:DQ:1:ALA:HB2	3:DS:21:ASN:OD1	1.80	0.81
3:D5:21:ASN:OD1	3:D8:1:ALA:HB2	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
1:A2:83:GLU:HB2	1:A2:212:ARG:HB3	1.61	0.81
1:A0:207:CYS:N	1:AZ:121:LEU:HD21	1.94	0.81
3:D1:1:ALA:HB2	3:D3:21:ASN:OD1	1.80	0.81
3:D0:21:ASN:OD1	3:D3:1:ALA:HB2	1.80	0.81
1:AL:115:THR:HG23	1:AL:133:LEU:H	1.45	0.81
1:AP:115:THR:HG23	1:AP:133:LEU:H	1.45	0.81
1:AD:115:THR:HG23	1:AD:133:LEU:H	1.45	0.81
1:AA:115:THR:HG23	1:AA:133:LEU:H	1.45	0.81
1:BI:115:THR:HG23	1:BI:133:LEU:H	1.45	0.81
2:CE:156:SER:HB3	3:DE:51:TYR:CE1	2.15	0.81
2:CQ:156:SER:HB3	3:DQ:51:TYR:CE1	2.15	0.81
2:CH:156:SER:HB3	3:DH:51:TYR:CE1	2.15	0.81
1:A7:115:THR:HG23	1:A7:133:LEU:H	1.45	0.81
1:AF:115:THR:HG23	1:AF:133:LEU:H	1.45	0.81
2:CT:156:SER:HB3	3:DT:51:TYR:CE1	2.15	0.81
2:CT:156:SER:HB3	3:EA:51:TYR:CE1	184.79	0.81
2:CV:156:SER:HB3	3:DV:51:TYR:CE1	2.15	0.81
1:AK:115:THR:HG23	1:AK:133:LEU:H	1.45	0.81
2:CS:156:SER:HB3	3:DS:51:TYR:CE1	2.15	0.81
2:C1:156:SER:HB3	3:D1:51:TYR:CE1	2.15	0.81
2:C8:156:SER:HB3	3:D8:51:TYR:CE1	2.15	0.81
2:CN:122:GLY:HA2	2:CN:200:SER:O	1.79	0.81
2:C4:13:ARG:O	2:C4:27:GLN:HA	1.80	0.81
1:AE:75:CYS:HB3	1:AE:218:MET:SD	2.20	0.81
2:C9:122:GLY:HA2	2:C9:200:SER:O	1.79	0.81
2:CX:13:ARG:O	2:CX:27:GLN:HA	1.80	0.81
1:AB:75:CYS:HB3	1:AB:218:MET:SD	2.20	0.81
1:BB:138:MET:HG3	3:DR:219:PRO:HB2	139.34	0.81
2:CB:13:ARG:O	2:CB:27:GLN:HA	1.80	0.81
1:AI:138:MET:HG3	3:DL:219:PRO:HB2	257.62	0.81
2:CF:13:ARG:O	2:CF:27:GLN:HA	1.80	0.81
2:CR:15:GLU:HG3	2:CR:29:SER:HB3	1.60	0.81
2:CZ:15:GLU:HG3	2:CZ:29:SER:HB3	1.61	0.81
1:BA:138:MET:HG3	3:DQ:219:PRO:HB2	119.64	0.81
1:BE:75:CYS:HB3	1:BE:218:MET:SD	2.20	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:75:CYS:HB3	1:A1:218:MET:SD	2.20	0.81
3:DX:63:GLU:HG2	3:DX:201:LYS:HD3	1.63	0.81
1:A2:75:CYS:HB3	1:A2:218:MET:SD	2.20	0.81
3:D0:53:PHE:HE2	3:D0:205:LEU:HB3	1.43	0.81
1:AW:70:ARG:O	1:AW:71:LEU:HB2	1.79	0.81
3:DT:63:GLU:HG2	3:DT:201:LYS:HD3	1.63	0.81
3:EA:63:GLU:HG2	3:EA:201:LYS:HD3	1.63	0.81
1:AX:75:CYS:HB3	1:AX:218:MET:SD	2.20	0.81
3:DN:63:GLU:HG2	3:DN:201:LYS:HD3	1.62	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:AU:75:CYS:HB3	1:AU:218:MET:SD	2.20	0.81
1:AQ:75:CYS:HB3	1:AQ:218:MET:SD	2.20	0.81
3:DS:63:GLU:HG2	3:DS:201:LYS:HD3	1.63	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
1:AL:13:THR:HB	3:DL:157:ASN:CB	2.09	0.81
1:A4:13:THR:HB	3:D5:157:ASN:CB	2.09	0.81
1:AW:121:LEU:HD21	1:AX:207:CYS:N	1.94	0.81
3:DA:21:ASN:OD1	3:DD:1:ALA:HB2	1.80	0.81
3:DJ:21:ASN:OD1	3:DM:1:ALA:HB2	242.80	0.81
3:EB:21:ASN:OD1	3:EE:1:ALA:HB2	1.80	0.81
1:A0:121:LEU:HD21	1:A1:207:CYS:N	1.94	0.81
3:D1:21:ASN:OD1	3:DZ:1:ALA:HB2	1.80	0.81
1:AG:115:THR:HG23	1:AG:133:LEU:H	1.45	0.81
2:CW:156:SER:HB3	3:ED:51:TYR:CE1	233.14	0.81
1:AM:115:THR:HG23	1:AM:133:LEU:H	1.45	0.81
1:AW:115:THR:HG23	1:AW:133:LEU:H	1.45	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
1:BD:75:CYS:HB3	1:BD:218:MET:SD	2.20	0.81
1:AJ:138:MET:HG3	3:DF:219:PRO:HB2	1.61	0.81
2:C0:13:ARG:O	2:C0:27:GLN:HA	1.80	0.81
1:AB:138:MET:HG3	3:D9:219:PRO:HB2	199.12	0.81
1:AT:138:MET:HG3	3:DV:219:PRO:HB2	1.61	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:AO:13:THR:HB	3:DS:157:ASN:CB	144.60	0.81
1:AS:13:THR:HB	3:DT:157:ASN:CB	2.09	0.81
1:BE:83:GLU:HB2	1:BE:212:ARG:HB3	1.60	0.81
3:D4:1:ALA:HB2	3:D6:21:ASN:OD1	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:83:GLU:HB2	1:A5:212:ARG:HB3	1.60	0.81
1:A3:115:THR:HG23	1:A3:133:LEU:H	1.45	0.81
2:CD:156:SER:HB3	3:DD:51:TYR:CE1	2.15	0.81
2:CC:156:SER:HB3	3:DC:51:TYR:CE1	2.15	0.81
2:CX:156:SER:HB3	3:DX:51:TYR:CE1	2.15	0.81
2:CH:13:ARG:O	2:CH:27:GLN:HA	1.80	0.81
2:C1:13:ARG:O	2:C1:27:GLN:HA	1.80	0.81
1:AH:138:MET:HG3	3:DK:219:PRO:HB2	255.56	0.81
1:AD:138:MET:HG3	3:DG:219:PRO:HB2	118.38	0.81
1:AM:138:MET:HG3	3:DN:219:PRO:HB2	1.61	0.81
1:BI:75:CYS:HB3	1:BI:218:MET:SD	2.20	0.81
1:A6:75:CYS:HB3	1:A6:218:MET:SD	2.20	0.81
1:AO:70:ARG:O	1:AO:71:LEU:HB2	1.79	0.81
2:C3:15:GLU:HG3	2:C3:29:SER:HB3	1.61	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
3:D4:103:SER:O	3:D4:211:GLY:HA3	1.79	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:AT:207:CYS:N	1:AX:121:LEU:HD21	1.94	0.81
1:AT:121:LEU:HD21	1:AU:207:CYS:N	1.94	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:A3:83:GLU:HB2	1:A3:212:ARG:HB3	1.61	0.81
3:D6:1:ALA:HB2	3:D8:21:ASN:OD1	1.80	0.81
1:BD:115:THR:HG23	1:BD:133:LEU:H	1.45	0.81
1:A0:115:THR:HG23	1:A0:133:LEU:H	1.45	0.81
2:CW:156:SER:HB3	3:DW:51:TYR:CE1	2.15	0.81
2:CB:156:SER:HB3	3:DB:51:TYR:CE1	2.15	0.81
2:C9:13:ARG:O	2:C9:27:GLN:HA	1.80	0.81
3:D4:53:PHE:HE2	3:D4:205:LEU:HB3	1.43	0.81
1:AO:138:MET:HG3	3:DK:219:PRO:HB2	1.61	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
1:BE:138:MET:HG3	3:EB:219:PRO:HB2	1.62	0.81
2:CL:63:THR:HG21	3:D8:188:LEU:HD11	118.01	0.81
2:CX:63:THR:HG21	3:DO:188:LEU:HD11	202.79	0.81
2:CE:213:MET:HE3	2:CE:215:VAL:HG22	1.63	0.81
1:AM:13:THR:HB	3:DO:157:ASN:CB	103.21	0.81
1:AN:13:THR:HB	3:DB:157:ASN:CB	171.17	0.81
1:AD:13:THR:HB	3:DF:157:ASN:CB	109.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A8:115:THR:HG23	1:A8:133:LEU:H	1.45	0.81
1:AS:115:THR:HG23	1:AS:133:LEU:H	1.45	0.81
2:CC:13:ARG:O	2:CC:27:GLN:HA	1.80	0.81
1:BD:138:MET:HG3	3:DO:219:PRO:HB2	199.12	0.81
2:CY:13:ARG:O	2:CY:27:GLN:HA	1.80	0.81
2:CA:63:THR:HG21	3:DL:188:LEU:HD11	250.90	0.81
2:CS:63:THR:HG21	3:DC:188:LEU:HD11	251.31	0.81
1:AH:13:THR:HB	3:DJ:157:ASN:CB	103.21	0.81
1:AI:121:LEU:HD21	1:AJ:207:CYS:N	1.94	0.81
1:BB:121:LEU:HD21	1:BC:207:CYS:N	1.94	0.81
3:DO:1:ALA:HB2	3:DQ:21:ASN:OD1	145.61	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:D2:1:ALA:HB2	3:DZ:21:ASN:OD1	1.80	0.81
1:BB:115:THR:HG23	1:BB:133:LEU:H	1.45	0.81
2:C8:13:ARG:O	2:C8:27:GLN:HA	1.80	0.81
1:AF:138:MET:HG3	3:DI:219:PRO:HB2	58.99	0.81
1:BC:75:CYS:HB3	1:BC:218:MET:SD	2.20	0.81
3:D6:53:PHE:HE2	3:D6:205:LEU:HB3	1.43	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:BD:70:ARG:O	1:BD:71:LEU:HB2	1.79	0.81
2:CH:115:ASN:HA	3:DN:119:LYS:CD	255.60	0.81
2:CF:115:ASN:HA	3:D6:119:LYS:CD	2.11	0.81
1:AG:121:LEU:HD21	1:AH:207:CYS:N	1.94	0.81
1:BA:83:GLU:HB2	1:BA:212:ARG:HB3	1.61	0.81
2:CN:156:SER:HB3	3:DN:51:TYR:CE1	2.15	0.81
2:CF:156:SER:HB3	3:DF:51:TYR:CE1	2.15	0.81
2:CI:156:SER:HB3	3:DI:51:TYR:CE1	2.15	0.81
2:CY:156:SER:HB3	3:DY:51:TYR:CE1	2.15	0.81
2:CQ:13:ARG:O	2:CQ:27:GLN:HA	1.80	0.81
1:AM:138:MET:HG3	3:DP:219:PRO:HB2	122.50	0.81
3:DV:63:GLU:HG2	3:DV:201:LYS:HD3	1.63	0.81
1:AY:138:MET:HG3	3:D0:219:PRO:HB2	1.62	0.81
1:A0:75:CYS:HB3	1:A0:218:MET:SD	2.20	0.81
2:CH:115:ASN:HA	3:DS:119:LYS:CD	157.79	0.81
2:CV:115:ASN:HA	3:DB:119:LYS:CD	2.11	0.81
2:CJ:115:ASN:HA	3:DM:119:LYS:CD	228.75	0.81
2:CD:115:ASN:HA	3:D7:119:LYS:CD	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:213:MET:HE3	2:CX:215:VAL:HG22	1.63	0.81
2:CZ:115:ASN:HA	3:DQ:119:LYS:CD	88.98	0.81
1:A9:13:THR:HB	3:DA:157:ASN:CB	214.93	0.81
1:AI:13:THR:HB	3:DI:157:ASN:CB	2.09	0.81
3:DV:103:SER:O	3:DV:211:GLY:HA3	1.79	0.81
2:CZ:104:VAL:CG1	2:CZ:222:VAL:HG22	2.06	0.81
3:DL:21:ASN:OD1	3:DO:1:ALA:HB2	1.80	0.81
3:DW:1:ALA:HB2	3:DY:21:ASN:OD1	1.80	0.81
1:BH:83:GLU:HB2	1:BH:212:ARG:HB3	1.61	0.81
1:AX:115:THR:HG23	1:AX:133:LEU:H	1.45	0.81
1:A9:115:THR:HG23	1:A9:133:LEU:H	1.45	0.81
1:A5:115:THR:HG23	1:A5:133:LEU:H	1.45	0.81
2:CV:156:SER:HB3	3:EC:51:TYR:CE1	243.65	0.81
1:AQ:115:THR:HG23	1:AQ:133:LEU:H	1.45	0.81
2:C5:156:SER:HB3	3:D5:51:TYR:CE1	2.15	0.81
2:CG:13:ARG:O	2:CG:27:GLN:HA	1.80	0.81
1:AS:138:MET:HG3	3:DP:219:PRO:HB2	1.62	0.81
2:C7:13:ARG:O	2:C7:27:GLN:HA	1.80	0.81
2:C3:13:ARG:O	2:C3:27:GLN:HA	1.80	0.81
1:A6:70:ARG:O	1:A6:71:LEU:HB2	1.79	0.81
1:BG:70:ARG:O	1:BG:71:LEU:HB2	1.79	0.81
1:AU:138:MET:HG3	3:DW:219:PRO:HB2	1.61	0.81
3:DG:63:GLU:HG2	3:DG:201:LYS:HD3	1.63	0.81
1:A6:138:MET:HG3	3:D8:219:PRO:HB2	1.61	0.81
2:CK:63:THR:HG21	3:DB:188:LEU:HD11	250.90	0.80
2:CS:115:ASN:HA	3:DC:119:LYS:CD	255.60	0.80
2:C4:115:ASN:HA	3:EC:119:LYS:CD	2.11	0.80
1:AC:13:THR:HB	3:DE:157:ASN:CB	103.21	0.80
1:BD:13:THR:HB	3:DS:157:ASN:CB	142.85	0.80
1:AV:121:LEU:HD21	1:AW:207:CYS:N	1.94	0.80
3:DJ:1:ALA:HB2	3:DL:21:ASN:OD1	241.78	0.80
3:DU:1:ALA:HB2	3:DW:21:ASN:OD1	1.80	0.80
3:EA:21:ASN:OD1	3:ED:1:ALA:HB2	1.80	0.80
2:CJ:156:SER:HB3	3:DJ:51:TYR:CE1	2.15	0.80
2:C7:156:SER:HB3	3:D7:51:TYR:CE1	2.15	0.80
2:CR:156:SER:HB3	3:DR:51:TYR:CE1	2.15	0.80
2:C2:156:SER:HB3	3:D2:51:TYR:CE1	2.15	0.80
1:AK:138:MET:HG3	3:DL:219:PRO:HB2	1.61	0.80
1:AB:138:MET:HG3	3:DC:219:PRO:HB2	1.61	0.80
1:BH:70:ARG:O	1:BH:71:LEU:HB2	1.79	0.80
3:D4:63:GLU:HG2	3:D4:201:LYS:HD3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:75:CYS:HB3	1:AS:218:MET:SD	2.20	0.80
3:DP:63:GLU:HG2	3:DP:201:LYS:HD3	1.62	0.80
3:DH:63:GLU:HG2	3:DH:201:LYS:HD3	1.63	0.80
1:AT:75:CYS:HB3	1:AT:218:MET:SD	2.20	0.80
3:DK:63:GLU:HG2	3:DK:201:LYS:HD3	1.63	0.80
2:CW:115:ASN:HA	3:DJ:119:LYS:CD	2.11	0.80
2:CI:115:ASN:HA	3:DX:119:LYS:CD	2.11	0.80
2:CQ:213:MET:HE3	2:CQ:215:VAL:HG22	1.63	0.80
2:CN:63:THR:HG21	3:DE:188:LEU:HD11	251.40	0.80
2:CP:63:THR:HG21	3:D1:188:LEU:HD11	1.60	0.80
1:AG:13:THR:HB	3:DG:157:ASN:CB	2.09	0.80
1:AJ:13:THR:HB	3:DJ:157:ASN:CB	2.09	0.80
1:BA:13:THR:HB	3:DP:157:ASN:CB	108.40	0.80
2:CO:104:VAL:CG1	2:CO:222:VAL:HG22	2.06	0.80
3:DC:1:ALA:HB2	3:DE:21:ASN:OD1	1.80	0.80
3:EA:1:ALA:HB2	3:EC:21:ASN:OD1	1.80	0.80
1:AY:83:GLU:HB2	1:AY:212:ARG:HB3	1.60	0.80
2:CG:156:SER:HB3	3:DG:51:TYR:CE1	2.15	0.80
2:CU:156:SER:HB3	3:DU:51:TYR:CE1	2.15	0.80
3:EE:63:GLU:HG2	3:EE:201:LYS:HD3	1.63	0.80
3:D9:63:GLU:HG2	3:D9:201:LYS:HD3	1.62	0.80
1:AR:138:MET:HG3	3:DS:219:PRO:HB2	1.62	0.80
2:CW:115:ASN:HA	3:DS:119:LYS:CD	245.68	0.80
2:CT:115:ASN:HA	3:DH:119:LYS:CD	222.18	0.80
2:CY:115:ASN:HA	3:DZ:119:LYS:CD	2.11	0.80
2:CP:115:ASN:HA	3:D0:119:LYS:CD	91.18	0.80
2:CN:104:VAL:CG1	2:CN:222:VAL:HG22	2.06	0.80
2:CD:104:VAL:CG1	2:CD:222:VAL:HG22	2.06	0.80
1:BE:13:THR:HB	3:EA:157:ASN:CB	2.09	0.80
1:A6:115:THR:HG23	1:A6:133:LEU:H	1.45	0.80
2:CA:156:SER:HB3	3:DA:51:TYR:CE1	2.15	0.80
2:C3:156:SER:HB3	3:D3:51:TYR:CE1	2.15	0.80
2:CZ:156:SER:HB3	3:DZ:51:TYR:CE1	2.15	0.80
1:AN:138:MET:HG3	3:DC:219:PRO:HB2	215.17	0.80
1:AN:138:MET:HG3	3:DO:219:PRO:HB2	1.61	0.80
3:DL:63:GLU:HG2	3:DL:201:LYS:HD3	1.63	0.80
1:AP:70:ARG:O	1:AP:71:LEU:HB2	1.79	0.80
1:AZ:138:MET:HG3	3:D1:219:PRO:HB2	1.62	0.80
1:A0:138:MET:HG3	3:D2:219:PRO:HB2	1.61	0.80
3:D3:63:GLU:HG2	3:D3:201:LYS:HD3	1.63	0.80
3:ED:63:GLU:HG2	3:ED:201:LYS:HD3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:63:GLU:HG2	3:DF:201:LYS:HD3	1.63	0.80
1:AV:138:MET:HG3	3:DX:219:PRO:HB2	1.61	0.80
3:D0:63:GLU:HG2	3:D0:201:LYS:HD3	1.63	0.80
2:CK:115:ASN:HA	3:DA:119:LYS:CD	269.23	0.80
2:CL:115:ASN:HA	3:DK:119:LYS:CD	109.61	0.80
1:AE:13:THR:HB	3:DE:157:ASN:CB	2.09	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
2:CS:104:VAL:CG1	2:CS:222:VAL:HG22	2.06	0.80
1:AM:207:CYS:N	1:BD:121:LEU:HD21	247.79	0.80
3:D9:1:ALA:HB2	3:DB:21:ASN:OD1	217.18	0.80
3:DM:1:ALA:HB2	3:DO:21:ASN:OD1	1.80	0.80
1:BF:115:THR:HG23	1:BF:133:LEU:H	1.45	0.80
1:AD:138:MET:HG3	3:DE:219:PRO:HB2	1.61	0.80
1:AI:138:MET:HG3	3:DJ:219:PRO:HB2	1.61	0.80
1:AJ:138:MET:HG3	3:DM:219:PRO:HB2	251.85	0.80
1:BC:138:MET:HG3	3:DS:219:PRO:HB2	147.69	0.80
3:DU:63:GLU:HG2	3:DU:201:LYS:HD3	1.63	0.80
3:DO:63:GLU:HG2	3:DO:201:LYS:HD3	1.63	0.80
3:D6:63:GLU:HG2	3:D6:201:LYS:HD3	1.63	0.80
3:DQ:63:GLU:HG2	3:DQ:201:LYS:HD3	1.63	0.80
1:BC:70:ARG:O	1:BC:71:LEU:HB2	1.79	0.80
2:CT:109:ASP:HB2	2:CT:218:ILE:HD11	1.64	0.80
2:CV:115:ASN:HA	3:DD:119:LYS:CD	147.95	0.80
2:CR:115:ASN:HA	3:DI:119:LYS:CD	157.79	0.80
2:CX:115:ASN:HA	3:DO:119:LYS:CD	212.56	0.80
2:CQ:115:ASN:HA	3:DY:119:LYS:CD	111.47	0.80
2:CG:115:ASN:HA	3:EB:119:LYS:CD	2.11	0.80
2:C9:115:ASN:HA	3:DL:119:LYS:CD	88.99	0.80
2:CS:115:ASN:HA	3:EA:119:LYS:CD	157.26	0.80
2:CF:115:ASN:HA	3:DV:119:LYS:CD	178.49	0.80
1:A2:13:THR:HB	3:D3:157:ASN:CB	2.09	0.80
3:DB:21:ASN:OD1	3:DE:1:ALA:HB2	1.80	0.80
1:AO:115:THR:HG23	1:AO:133:LEU:H	1.45	0.80
1:BH:115:THR:HG23	1:BH:133:LEU:H	1.45	0.80
1:BA:115:THR:HG23	1:BA:133:LEU:H	1.45	0.80
1:AL:138:MET:HG3	3:DJ:219:PRO:HB2	253.14	0.80
1:BA:75:CYS:HB3	1:BA:218:MET:SD	2.20	0.80
2:CD:109:ASP:HB2	2:CD:218:ILE:HD11	1.64	0.80
2:CF:109:ASP:HB2	2:CF:218:ILE:HD11	1.64	0.80
1:AZ:70:ARG:O	1:AZ:71:LEU:HB2	1.79	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:70:ARG:O	1:BA:71:LEU:HB2	1.79	0.80
3:DY:63:GLU:HG2	3:DY:201:LYS:HD3	1.62	0.80
2:C1:109:ASP:HB2	2:C1:218:ILE:HD11	1.64	0.80
2:CD:63:THR:HG21	3:D7:188:LEU:HD11	1.61	0.80
2:C3:213:MET:HE3	2:C3:215:VAL:HG22	1.64	0.80
2:CE:115:ASN:HA	3:DF:119:LYS:CD	2.11	0.80
2:CP:115:ASN:HA	3:D1:119:LYS:CD	2.11	0.80
1:BI:83:GLU:HB2	1:BI:212:ARG:HB3	1.60	0.80
3:DG:21:ASN:OD1	3:DJ:1:ALA:HB2	1.80	0.80
2:CU:156:SER:HB3	3:EB:51:TYR:CE1	234.19	0.80
2:C6:156:SER:HB3	3:D6:51:TYR:CE1	2.15	0.80
1:A8:138:MET:HG3	3:DA:219:PRO:HB2	226.40	0.80
1:AG:138:MET:HG3	3:DH:219:PRO:HB2	1.61	0.80
1:AA:138:MET:HG3	3:DD:219:PRO:HB2	58.99	0.80
1:BB:75:CYS:HB3	1:BB:218:MET:SD	2.20	0.80
2:CY:15:GLU:HG3	2:CY:29:SER:HB3	1.60	0.80
1:A5:70:ARG:O	1:A5:71:LEU:HB2	1.79	0.80
2:CA:109:ASP:HB2	2:CA:218:ILE:HD11	1.64	0.80
2:C8:109:ASP:HB2	2:C8:218:ILE:HD11	1.64	0.80
2:C0:109:ASP:HB2	2:C0:218:ILE:HD11	1.64	0.80
2:CK:109:ASP:HB2	2:CK:218:ILE:HD11	1.64	0.80
2:C5:115:ASN:HA	3:DG:119:LYS:CD	2.12	0.80
2:CA:115:ASN:HA	3:DL:119:LYS:CD	254.56	0.80
3:DV:1:ALA:HB2	3:DX:21:ASN:OD1	1.80	0.80
1:AA:138:MET:HG3	3:DB:219:PRO:HB2	1.61	0.80
2:CU:13:ARG:O	2:CU:27:GLN:HA	1.80	0.80
1:A0:70:ARG:O	1:A0:71:LEU:HB2	1.79	0.80
2:CP:109:ASP:HB2	2:CP:218:ILE:HD11	1.64	0.80
2:CC:109:ASP:HB2	2:CC:218:ILE:HD11	1.64	0.80
2:CM:115:ASN:HA	3:DI:119:LYS:CD	255.60	0.80
3:ED:103:SER:CB	3:ED:159:PRO:HA	2.12	0.80
1:AZ:13:THR:HB	3:D0:157:ASN:CB	2.09	0.80
2:C4:156:SER:HB3	3:D4:51:TYR:CE1	2.15	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
2:CM:109:ASP:HB2	2:CM:218:ILE:HD11	1.64	0.80
3:DJ:63:GLU:HG2	3:DJ:201:LYS:HD3	1.63	0.80
2:CK:115:ASN:HA	3:DB:119:LYS:CD	254.56	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	244.98	0.80
2:CQ:115:ASN:HA	3:DP:119:LYS:CD	109.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:115:ASN:HA	3:DR:119:LYS:CD	152.56	0.80
2:CB:213:MET:HE3	2:CB:215:VAL:HG22	1.66	0.80
3:DM:103:SER:CB	3:DM:159:PRO:HA	2.12	0.80
2:CL:104:VAL:CG1	2:CL:222:VAL:HG22	2.06	0.80
3:DH:1:ALA:HB2	3:DJ:21:ASN:OD1	1.80	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
1:AL:170:PHE:HD2	1:AL:222:ARG:CZ	1.95	0.80
1:AP:138:MET:HG3	3:DQ:219:PRO:HB2	1.61	0.80
2:CU:109:ASP:HB2	2:CU:218:ILE:HD11	1.64	0.80
3:DE:63:GLU:HG2	3:DE:201:LYS:HD3	1.63	0.80
3:DW:63:GLU:HG2	3:DW:201:LYS:HD3	1.63	0.80
2:C6:109:ASP:HB2	2:C6:218:ILE:HD11	1.64	0.80
2:CM:115:ASN:HA	3:DD:119:LYS:CD	157.79	0.80
2:C6:115:ASN:HA	3:DE:119:LYS:CD	2.11	0.80
1:AE:13:THR:HB	3:DG:157:ASN:CB	89.85	0.80
3:DH:103:SER:CB	3:DH:159:PRO:HA	2.12	0.80
1:A2:115:THR:HG23	1:A2:133:LEU:H	1.45	0.80
1:AC:170:PHE:HD2	1:AC:222:ARG:CZ	1.95	0.80
1:AE:170:PHE:HD2	1:AE:222:ARG:CZ	1.95	0.80
1:AH:138:MET:HG3	3:DI:219:PRO:HB2	1.61	0.80
3:D7:53:PHE:HE2	3:D7:205:LEU:HB3	1.43	0.80
1:BC:170:PHE:HD2	1:BC:222:ARG:CZ	1.95	0.80
1:A7:170:PHE:HD2	1:A7:222:ARG:CZ	1.96	0.80
3:DR:63:GLU:HG2	3:DR:201:LYS:HD3	1.63	0.80
1:A7:138:MET:HG3	3:D4:219:PRO:HB2	1.62	0.80
2:CR:109:ASP:HB2	2:CR:218:ILE:HD11	1.64	0.80
2:C7:109:ASP:HB2	2:C7:218:ILE:HD11	1.64	0.80
2:CI:213:MET:HE3	2:CI:215:VAL:HG22	1.65	0.79
2:C3:115:ASN:HA	3:DU:119:LYS:CD	2.12	0.79
2:CE:115:ASN:HA	3:DC:119:LYS:CD	150.70	0.79
2:CB:115:ASN:HA	3:DF:119:LYS:CD	143.03	0.79
3:DA:103:SER:CB	3:DA:159:PRO:HA	2.12	0.79
3:DD:103:SER:CB	3:DD:159:PRO:HA	2.12	0.79
2:CM:104:VAL:CG1	2:CM:222:VAL:HG22	2.06	0.79
2:C2:104:VAL:CG1	2:C2:222:VAL:HG22	2.06	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:AO:170:PHE:HD2	1:AO:222:ARG:CZ	1.95	0.79
1:AO:138:MET:HG3	3:DT:219:PRO:HB2	90.73	0.79
1:BG:170:PHE:HD2	1:BG:222:ARG:CZ	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:170:PHE:HD2	1:AU:222:ARG:CZ	1.95	0.79
3:DI:63:GLU:HG2	3:DI:201:LYS:HD3	1.63	0.79
1:AU:70:ARG:O	1:AU:71:LEU:HB2	1.79	0.79
2:CL:109:ASP:HB2	2:CL:218:ILE:HD11	1.64	0.79
2:CX:109:ASP:HB2	2:CX:218:ILE:HD11	1.64	0.79
2:CM:213:MET:HE3	2:CM:215:VAL:HG22	1.65	0.79
2:CU:115:ASN:HA	3:D5:119:LYS:CD	254.56	0.79
2:CD:115:ASN:HA	3:D4:119:LYS:CD	147.95	0.79
2:CO:213:MET:HE3	2:CO:215:VAL:HG22	1.67	0.79
2:CS:213:MET:HE3	2:CS:215:VAL:HG22	1.67	0.79
3:DS:103:SER:CB	3:DS:159:PRO:HA	2.12	0.79
1:BI:13:THR:HB	3:EE:157:ASN:CB	2.09	0.79
1:AG:170:PHE:HD2	1:AG:222:ARG:CZ	1.96	0.79
1:AK:170:PHE:HD2	1:AK:222:ARG:CZ	1.95	0.79
1:AF:170:PHE:HD2	1:AF:222:ARG:CZ	1.95	0.79
3:D8:53:PHE:HE2	3:D8:205:LEU:HB3	1.43	0.79
1:BA:170:PHE:HD2	1:BA:222:ARG:CZ	1.95	0.79
1:AX:170:PHE:HD2	1:AX:222:ARG:CZ	1.96	0.79
2:CK:154:GLN:O	2:CK:157:VAL:HG12	1.83	0.79
2:CH:154:GLN:O	2:CH:157:VAL:HG12	1.83	0.79
2:CN:109:ASP:HB2	2:CN:218:ILE:HD11	1.64	0.79
2:CG:109:ASP:HB2	2:CG:218:ILE:HD11	1.64	0.79
2:CY:109:ASP:HB2	2:CY:218:ILE:HD11	1.64	0.79
2:C1:154:GLN:O	2:C1:157:VAL:HG12	1.83	0.79
3:D7:63:GLU:HG2	3:D7:201:LYS:HD3	1.63	0.79
2:CO:115:ASN:HA	3:DP:119:LYS:CD	2.11	0.79
2:CO:115:ASN:HA	3:DR:119:LYS:CD	147.95	0.79
2:CG:115:ASN:HA	3:D3:119:LYS:CD	254.56	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:DW:103:SER:CB	3:DW:159:PRO:HA	2.12	0.79
3:DE:21:ASN:OD1	3:DH:1:ALA:HB2	101.44	0.79
2:CO:154:GLN:O	2:CO:157:VAL:HG12	1.83	0.79
2:CS:154:GLN:O	2:CS:157:VAL:HG12	1.83	0.79
2:CP:154:GLN:O	2:CP:157:VAL:HG12	1.83	0.79
3:EC:63:GLU:HG2	3:EC:201:LYS:HD3	1.63	0.79
2:CI:109:ASP:HB2	2:CI:218:ILE:HD11	1.64	0.79
2:CC:115:ASN:HA	3:DN:119:LYS:CD	157.79	0.79
2:CC:115:ASN:HA	3:ED:119:LYS:CD	245.69	0.79
2:CR:115:ASN:HA	3:EE:119:LYS:CD	2.12	0.79
2:C0:115:ASN:HA	3:DQ:119:LYS:CD	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:115:ASN:HA	3:DW:119:LYS:CD	2.11	0.79
3:DG:103:SER:CB	3:DG:159:PRO:HA	2.12	0.79
2:CH:104:VAL:CG1	2:CH:222:VAL:HG22	2.06	0.79
2:C8:104:VAL:CG1	2:C8:222:VAL:HG22	2.06	0.79
3:DR:103:SER:CB	3:DR:159:PRO:HA	2.12	0.79
1:BI:174:TRP:HB2	2:CX:188:LEU:HD23	172.09	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:AN:170:PHE:HD2	1:AN:222:ARG:CZ	1.95	0.79
1:A8:170:PHE:HD2	1:A8:222:ARG:CZ	1.95	0.79
2:CM:154:GLN:O	2:CM:157:VAL:HG12	1.83	0.79
2:CJ:154:GLN:O	2:CJ:157:VAL:HG12	1.83	0.79
3:D2:63:GLU:HG2	3:D2:201:LYS:HD3	1.63	0.79
3:DM:63:GLU:HG2	3:DM:201:LYS:HD3	1.63	0.79
2:CT:154:GLN:O	2:CT:157:VAL:HG12	1.83	0.79
2:C7:154:GLN:O	2:C7:157:VAL:HG12	1.83	0.79
2:C2:109:ASP:HB2	2:C2:218:ILE:HD11	1.64	0.79
2:CR:154:GLN:O	2:CR:157:VAL:HG12	1.83	0.79
2:CI:115:ASN:HA	3:DJ:119:LYS:CD	66.60	0.79
2:CJ:115:ASN:HA	3:DA:119:LYS:CD	2.11	0.79
2:CB:115:ASN:HA	3:DT:119:LYS:CD	255.60	0.79
2:CF:213:MET:HE3	2:CF:215:VAL:HG22	1.74	0.79
3:EE:103:SER:CB	3:EE:159:PRO:HA	2.12	0.79
2:CB:104:VAL:CG1	2:CB:222:VAL:HG22	2.06	0.79
3:DO:21:ASN:OD1	3:DR:1:ALA:HB2	101.44	0.79
1:AI:174:TRP:HB2	2:CK:188:LEU:HD23	276.53	0.79
1:BH:170:PHE:HD2	1:BH:222:ARG:CZ	1.95	0.79
1:AT:170:PHE:HD2	1:AT:222:ARG:CZ	1.95	0.79
2:CO:109:ASP:HB2	2:CO:218:ILE:HD11	1.64	0.79
1:AV:174:TRP:HB2	2:CW:188:LEU:HD23	1.65	0.79
3:DZ:63:GLU:HG2	3:DZ:201:LYS:HD3	1.63	0.79
1:AS:174:TRP:HB2	2:CT:188:LEU:HD23	1.65	0.79
2:CN:115:ASN:HA	3:D2:119:LYS:CD	2.11	0.79
2:CN:115:ASN:HA	3:DE:119:LYS:CD	255.16	0.79
1:BB:13:THR:HB	3:DQ:157:ASN:CB	92.78	0.79
3:EC:103:SER:CB	3:EC:159:PRO:HA	2.12	0.79
3:D1:103:SER:CB	3:D1:159:PRO:HA	2.12	0.79
1:AC:174:TRP:HB2	2:CC:188:LEU:HD23	1.65	0.79
1:AA:170:PHE:HD2	1:AA:222:ARG:CZ	1.96	0.79
1:AY:170:PHE:HD2	1:AY:222:ARG:CZ	1.95	0.79
1:AW:170:PHE:HD2	1:AW:222:ARG:CZ	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:CZ:109:ASP:HB2	2:CZ:218:ILE:HD11	1.64	0.79
2:CJ:109:ASP:HB2	2:CJ:218:ILE:HD11	1.64	0.79
3:D5:63:GLU:HG2	3:D5:201:LYS:HD3	1.63	0.79
2:C8:115:ASN:HA	3:D9:119:LYS:CD	2.12	0.79
2:C1:115:ASN:HA	3:DO:119:LYS:CD	2.12	0.79
1:AD:13:THR:HB	3:DD:157:ASN:CB	2.09	0.79
3:EB:103:SER:CB	3:EB:159:PRO:HA	2.12	0.79
3:D7:103:SER:CB	3:D7:159:PRO:HA	2.12	0.79
2:CT:44:PRO:HB2	2:CT:47:VAL:CG2	2.13	0.79
2:CB:44:PRO:HB2	2:CB:47:VAL:CG2	2.13	0.79
2:CL:44:PRO:HB2	2:CL:47:VAL:CG2	2.13	0.79
2:CE:44:PRO:HB2	2:CE:47:VAL:CG2	2.13	0.79
3:DU:21:ASN:OD1	3:DX:1:ALA:HB2	1.80	0.79
1:AC:174:TRP:HB2	2:CE:188:LEU:HD23	101.85	0.79
1:AR:170:PHE:HD2	1:AR:222:ARG:CZ	1.95	0.79
1:A3:170:PHE:HD2	1:A3:222:ARG:CZ	1.95	0.79
1:AQ:170:PHE:HD2	1:AQ:222:ARG:CZ	1.95	0.79
1:BB:170:PHE:HD2	1:BB:222:ARG:CZ	1.95	0.79
2:CA:154:GLN:O	2:CA:157:VAL:HG12	1.83	0.79
2:CY:154:GLN:O	2:CY:157:VAL:HG12	1.83	0.79
2:CU:154:GLN:O	2:CU:157:VAL:HG12	1.83	0.79
1:A5:138:MET:HG3	3:D7:219:PRO:HB2	1.62	0.79
2:C2:115:ASN:HA	3:DH:119:LYS:CD	254.56	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:D8:103:SER:CB	3:D8:159:PRO:HA	2.12	0.79
2:CP:44:PRO:HB2	2:CP:47:VAL:CG2	2.13	0.79
2:CI:44:PRO:HB2	2:CI:47:VAL:CG2	2.13	0.79
1:AM:174:TRP:HB2	2:CM:188:LEU:HD23	1.65	0.79
1:AH:170:PHE:HD2	1:AH:222:ARG:CZ	1.96	0.79
1:AC:138:MET:HG3	3:DD:219:PRO:HB2	1.61	0.79
1:A6:170:PHE:HD2	1:A6:222:ARG:CZ	1.96	0.79
2:CN:154:GLN:O	2:CN:157:VAL:HG12	1.83	0.79
2:CX:154:GLN:O	2:CX:157:VAL:HG12	1.83	0.79
2:C7:115:ASN:HA	3:DM:119:LYS:CD	152.55	0.79
2:CL:115:ASN:HA	3:D8:119:LYS:CD	111.47	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
2:CC:104:VAL:CG1	2:CC:222:VAL:HG22	2.06	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:103:SER:CB	3:DU:159:PRO:HA	2.12	0.79
1:AR:115:THR:HG23	1:AR:133:LEU:H	1.45	0.79
1:BE:170:PHE:HD2	1:BE:222:ARG:CZ	1.95	0.79
1:BI:170:PHE:HD2	1:BI:222:ARG:CZ	1.95	0.79
2:CG:154:GLN:O	2:CG:157:VAL:HG12	1.83	0.79
2:CB:154:GLN:O	2:CB:157:VAL:HG12	1.83	0.79
1:BH:174:TRP:HB2	2:CW:188:LEU:HD23	228.12	0.79
1:BB:60:PHE:CE2	1:BB:167:VAL:HG11	2.18	0.79
1:AO:60:PHE:CE2	1:AO:167:VAL:HG11	2.18	0.79
2:CW:154:GLN:O	2:CW:157:VAL:HG12	1.83	0.79
2:CS:109:ASP:HB2	2:CS:218:ILE:HD11	1.64	0.79
2:CQ:154:GLN:O	2:CQ:157:VAL:HG12	1.83	0.79
2:C5:213:MET:HE3	2:C5:215:VAL:HG22	1.65	0.79
3:DE:103:SER:CB	3:DE:159:PRO:HA	2.12	0.79
3:DL:103:SER:CB	3:DL:159:PRO:HA	2.12	0.79
3:DO:103:SER:CB	3:DO:159:PRO:HA	2.12	0.79
2:CY:44:PRO:HB2	2:CY:47:VAL:CG2	2.13	0.79
1:AE:174:TRP:HB2	2:CE:188:LEU:HD23	1.65	0.79
1:AG:174:TRP:HB2	2:CI:188:LEU:HD23	101.85	0.79
1:AB:174:TRP:HB2	2:CD:188:LEU:HD23	101.85	0.79
1:AI:170:PHE:HD2	1:AI:222:ARG:CZ	1.95	0.79
1:AD:170:PHE:HD2	1:AD:222:ARG:CZ	1.95	0.79
1:AZ:170:PHE:HD2	1:AZ:222:ARG:CZ	1.96	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
3:D1:63:GLU:HG2	3:D1:201:LYS:HD3	1.63	0.79
1:AD:60:PHE:CE2	1:AD:167:VAL:HG11	2.18	0.79
1:AH:60:PHE:CE2	1:AH:167:VAL:HG11	2.18	0.79
2:C8:180:PRO:HD2	2:C8:189:HIS:CE1	2.18	0.79
1:AY:60:PHE:CE2	1:AY:167:VAL:HG11	2.18	0.79
2:CQ:109:ASP:HB2	2:CQ:218:ILE:HD11	1.64	0.79
2:CB:180:PRO:HD2	2:CB:189:HIS:CE1	2.18	0.79
2:C9:109:ASP:HB2	2:C9:218:ILE:HD11	1.64	0.79
1:BE:60:PHE:CE2	1:BE:167:VAL:HG11	2.18	0.79
3:DT:103:SER:CB	3:DT:159:PRO:HA	2.12	0.78
1:AV:13:THR:HB	3:DW:157:ASN:CB	2.09	0.78
2:C4:44:PRO:HB2	2:C4:47:VAL:CG2	2.13	0.78
2:CJ:44:PRO:HB2	2:CJ:47:VAL:CG2	2.13	0.78
1:AM:174:TRP:HB2	2:CO:188:LEU:HD23	101.85	0.78
1:BF:170:PHE:HD2	1:BF:222:ARG:CZ	1.95	0.78
1:AS:170:PHE:HD2	1:AS:222:ARG:CZ	1.95	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:60:PHE:CE2	1:AE:167:VAL:HG11	2.18	0.78
1:AB:60:PHE:CE2	1:AB:167:VAL:HG11	2.18	0.78
2:C1:180:PRO:HD2	2:C1:189:HIS:CE1	2.19	0.78
1:BF:60:PHE:CE2	1:BF:167:VAL:HG11	2.18	0.78
2:CA:180:PRO:HD2	2:CA:189:HIS:CE1	2.19	0.78
1:BA:60:PHE:CE2	1:BA:167:VAL:HG11	2.18	0.78
3:DA:63:GLU:HG2	3:DA:201:LYS:HD3	1.63	0.78
1:BB:174:TRP:HB2	2:CQ:188:LEU:HD23	135.99	0.78
2:CC:213:MET:HE3	2:CC:215:VAL:HG22	1.67	0.78
2:CU:213:MET:HE3	2:CU:215:VAL:HG22	1.66	0.78
3:DQ:103:SER:CB	3:DQ:159:PRO:HA	2.12	0.78
3:DV:103:SER:CB	3:DV:159:PRO:HA	2.12	0.78
1:A3:13:THR:HB	3:D4:157:ASN:CB	2.09	0.78
3:DY:103:SER:CB	3:DY:159:PRO:HA	2.12	0.78
1:AE:174:TRP:HB2	2:CG:188:LEU:HD23	137.44	0.78
1:AJ:174:TRP:HB2	2:CJ:188:LEU:HD23	1.65	0.78
1:BD:170:PHE:HD2	1:BD:222:ARG:CZ	1.96	0.78
1:A4:170:PHE:HD2	1:A4:222:ARG:CZ	1.95	0.78
1:AP:170:PHE:HD2	1:AP:222:ARG:CZ	1.95	0.78
1:AG:60:PHE:CE2	1:AG:167:VAL:HG11	2.18	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
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
1:AP:60:PHE:CE2	1:AP:167:VAL:HG11	2.18	0.78
2:C2:180:PRO:HD2	2:C2:189:HIS:CE1	2.19	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	2.19	0.78
2:C0:213:MET:HE3	2:C0:215:VAL:HG22	1.65	0.78
2:CN:44:PRO:HB2	2:CN:47:VAL:CG2	2.13	0.78
1:AH:174:TRP:HB2	2:CH:188:LEU:HD23	1.65	0.78
1:A7:174:TRP:HB2	2:C8:188: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
2:CI:154:GLN:O	2:CI:157:VAL:HG12	1.83	0.78
2:CD:180:PRO:HD2	2:CD:189:HIS:CE1	2.19	0.78
2:CL:180:PRO:HD2	2:CL:189:HIS:CE1	2.18	0.78
2:CK:180:PRO:HD2	2:CK:189:HIS:CE1	2.19	0.78
2:CS:180:PRO:HD2	2:CS:189:HIS:CE1	2.18	0.78
2:CP:180:PRO:HD2	2:CP:189:HIS:CE1	2.19	0.78
2:CW:109:ASP:HB2	2:CW:218:ILE:HD11	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:60:PHE:CE2	1:A4:167:VAL:HG11	2.18	0.78
2:CG:124:LEU:HD22	2:CG:196:ILE:HG22	1.66	0.78
2:CR:180:PRO:HD2	2:CR:189:HIS:CE1	2.19	0.78
2:C9:180:PRO:HD2	2:C9:189:HIS:CE1	2.19	0.78
2:CZ:154:GLN:O	2:CZ:157:VAL:HG12	1.83	0.78
2:CB:109:ASP:HB2	2:CB:218:ILE:HD11	1.64	0.78
2:C7:213:MET:HE3	2:C7:215:VAL:HG22	1.65	0.78
3:D9:103:SER:CB	3:D9:159:PRO:HA	2.12	0.78
3:DB:103:SER:CB	3:DB:159:PRO:HA	2.12	0.78
3:DZ:103:SER:CB	3:DZ:159:PRO:HA	2.12	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
1:AU:174:TRP:HB2	2:CV:188:LEU:HD23	1.65	0.78
2:CE:154:GLN:O	2:CE:157:VAL:HG12	1.83	0.78
2:CN:180:PRO:HD2	2:CN:189:HIS:CE1	2.19	0.78
2:C8:154:GLN:O	2:C8:157:VAL:HG12	1.83	0.78
1:AH:62:SER:HB2	1:AH:73:ASN:HD21	1.49	0.78
1:BG:60:PHE:CE2	1:BG:167:VAL:HG11	2.18	0.78
2:C5:154:GLN:O	2:C5:157:VAL:HG12	1.83	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
1:AX:60:PHE:CE2	1:AX:167:VAL:HG11	2.18	0.78
2:CV:154:GLN:O	2:CV:157:VAL:HG12	1.83	0.78
1:A5:60:PHE:CE2	1:A5:167:VAL:HG11	2.18	0.78
2:CU:124:LEU:HD22	2:CU:196:ILE:HG22	1.66	0.78
1:A7:60:PHE:CE2	1:A7:167:VAL:HG11	2.18	0.78
1:A0:60:PHE:CE2	1:A0:167:VAL:HG11	2.18	0.78
2:CL:213:MET:HE3	2:CL:215:VAL:HG22	1.67	0.78
3:D5:103:SER:CB	3:D5:159:PRO:HA	2.12	0.78
3:D2:103:SER:CB	3:D2:159:PRO:HA	2.12	0.78
2:CO:44:PRO:HB2	2:CO:47:VAL:CG2	2.13	0.78
2:CD:154:GLN:O	2:CD:157:VAL:HG12	1.83	0.78
1:AJ:60:PHE:CE2	1:AJ:167:VAL:HG11	2.18	0.78
1:AT:60:PHE:CE2	1:AT:167:VAL:HG11	2.18	0.78
1:A0:174:TRP:HB2	2:C1:188:LEU:HD23	1.65	0.78
2:C5:180:PRO:HD2	2:C5:189:HIS:CE1	2.19	0.78
1:AV:60:PHE:CE2	1:AV:167:VAL:HG11	2.18	0.78
2:C4:180:PRO:HD2	2:C4:189:HIS:CE1	2.19	0.78
1:AN:62:SER:HB2	1:AN:73:ASN:HD21	1.49	0.78
2:C5:109:ASP:HB2	2:C5:218:ILE:HD11	1.64	0.78
2:CV:124:LEU:HD22	2:CV:196:ILE:HG22	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:180:PRO:HD2	2:CV:189:HIS:CE1	2.19	0.78
2:CE:109:ASP:HB2	2:CE:218:ILE:HD11	1.64	0.78
3:DP:103:SER:CB	3:DP:159:PRO:HA	2.12	0.78
3:D3:103:SER:CB	3:D3:159:PRO:HA	2.12	0.78
2:C9:104:VAL:CG1	2:C9:222:VAL:HG22	2.06	0.78
3:DX:103:SER:CB	3:DX:159:PRO:HA	2.12	0.78
2:C6:104:VAL:CG1	2:C6:222:VAL:HG22	2.06	0.78
1:A1:13:THR:HB	3:D2:157:ASN:CB	2.09	0.78
2:CS:44:PRO:HB2	2:CS:47:VAL:CG2	2.13	0.78
2:CM:44:PRO:HB2	2:CM:47:VAL:CG2	2.13	0.78
1:AI:174:TRP:HB2	2:CI:188:LEU:HD23	1.65	0.78
1:BD:60:PHE:CE2	1:BD:167:VAL:HG11	2.18	0.78
2:CC:180:PRO:HD2	2:CC:189:HIS:CE1	2.19	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
1:A1:174:TRP:HB2	2:C2:188:LEU:HD23	1.65	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:C7:180:PRO:HD2	2:C7:189:HIS:CE1	2.19	0.78
2:C3:180:PRO:HD2	2:C3:189:HIS:CE1	2.19	0.78
3:D4:103:SER:CB	3:D4:159:PRO:HA	2.12	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
1:AW:174:TRP:HB2	2:CX:188:LEU:HD23	1.65	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
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
2:CF:180:PRO:HD2	2:CF:189:HIS:CE1	2.19	0.78
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:A6:62:SER:HB2	1:A6:73:ASN:HD21	1.49	0.78
2:C4:124:LEU:HD22	2:C4:196:ILE:HG22	1.66	0.78
1:AK:62:SER:HB2	1:AK:73:ASN:HD21	1.49	0.78
2:CW:180:PRO:HD2	2:CW:189:HIS:CE1	2.19	0.78
2:CR:124:LEU:HD22	2:CR:196:ILE:HG22	1.66	0.78
2:C5:124:LEU:HD22	2:C5:196:ILE:HG22	1.66	0.78
3:D8:63:GLU:HG2	3:D8:201:LYS:HD3	1.63	0.78
1:AF:62:SER:HB2	1:AF:73:ASN:HD21	1.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:174:TRP:HB2	2:CA:188:LEU:HD23	260.15	0.78
1:A0:170:PHE:HD2	1:A0:222:ARG:CZ	1.96	0.78
2:CL:154:GLN:O	2:CL:157:VAL:HG12	1.83	0.78
1:AI:60:PHE:CE2	1:AI:167:VAL:HG11	2.18	0.78
1:AN:60:PHE:CE2	1:AN:167:VAL:HG11	2.18	0.78
2:CJ:180:PRO:HD2	2:CJ:189:HIS:CE1	2.19	0.78
1:AU:60:PHE:CE2	1:AU:167:VAL:HG11	2.18	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:C2:124:LEU:HD22	2:C2:196:ILE:HG22	1.66	0.78
1:AJ:62:SER:HB2	1:AJ:73:ASN:HD21	1.49	0.78
2:C1:124:LEU:HD22	2:C1:196:ILE:HG22	1.66	0.78
1:A6:60:PHE:CE2	1:A6:167:VAL:HG11	2.19	0.78
2:CT:180:PRO:HD2	2:CT:189:HIS:CE1	2.19	0.78
2:CH:124:LEU:HD22	2:CH:196:ILE:HG22	1.66	0.78
2:C6:124:LEU:HD22	2:C6:196: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:CG:104:VAL:CG1	2:CG:222:VAL:HG22	2.06	0.78
2:CG:44:PRO:HB2	2:CG:47:VAL:CG2	2.13	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
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
2:CG:180:PRO:HD2	2:CG:189:HIS:CE1	2.18	0.78
1:A1:60:PHE:CE2	1:A1:167:VAL:HG11	2.18	0.78
3:EB:63:GLU:HG2	3:EB:201:LYS:HD3	1.63	0.78
1:A8:60:PHE:CE2	1:A8:167:VAL:HG11	2.18	0.78
1:A0:62:SER:HB2	1:A0:73:ASN:HD21	1.49	0.78
1:A1:62:SER:HB2	1:A1:73:ASN:HD21	1.49	0.78
2:CH:109:ASP:HB2	2:CH:218:ILE:HD11	1.64	0.78
2:C6:154:GLN:O	2:C6:157:VAL:HG12	1.83	0.78
2:C3:154:GLN:O	2:C3:157:VAL:HG12	1.83	0.78
1:A8:174:TRP:HB2	2:C9:188:LEU:HD23	1.65	0.78
2:CV:213:MET:HE2	2:CV:215:VAL:HG22	1.65	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:C8:44:PRO:HB2	2:C8:47:VAL:CG2	2.13	0.78
1:AD:121:LEU:CD1	1:AE:206:GLY:HA3	2.15	0.78
1:AO:174:TRP:HB2	2:CS:188:LEU:HD23	98.08	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:174:TRP:HB2	2:CC:188:LEU:HD23	101.85	0.78
1:A6:174:TRP:HB2	2:C7:188:LEU:HD23	1.65	0.78
1:AD:174:TRP:HB2	2:CD:188:LEU:HD23	1.65	0.78
1:AN:174:TRP:HB2	2:CB:188:LEU:HD23	207.69	0.78
1:BE:174:TRP:HB2	2:CT:188:LEU:HD23	215.07	0.78
2:CP:124:LEU:HD22	2:CP:196:ILE:HG22	1.66	0.78
2:C7:124:LEU:HD22	2:C7:196:ILE:HG22	1.66	0.78
2:C3:109:ASP:HB2	2:C3:218:ILE:HD11	1.64	0.78
1:A4:174:TRP:HB2	2:C5:188:LEU:HD23	1.65	0.78
1:AD:62:SER:HB2	1:AD:73:ASN:HD21	1.49	0.78
1:BE:62:SER:HB2	1:BE:73:ASN:HD21	1.49	0.78
1:A5:62:SER:HB2	1:A5:73:ASN:HD21	1.49	0.78
2:C7:44:PRO:HB2	2:C7:47:VAL:CG2	2.13	0.77
2:CV:44:PRO:HB2	2:CV:47:VAL:CG2	2.13	0.77
1:A9:121:LEU:CD1	1:AN:206:GLY:HA3	161.39	0.77
1:AA:206:GLY:HA3	1:AE:121:LEU:CD1	2.14	0.77
1:AE:121:LEU:CD1	1:AF:206:GLY:HA3	135.87	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:BG:174:TRP:HB2	2:CV:188:LEU:HD23	260.86	0.77
1:AH:174:TRP:HB2	2:CJ:188:LEU:HD23	101.85	0.77
2:CH:180:PRO:HD2	2:CH:189:HIS:CE1	2.19	0.77
1:AS:60:PHE:CE2	1:AS:167:VAL:HG11	2.18	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
1:A3:60:PHE:CE2	1:A3:167:VAL:HG11	2.18	0.77
1:AE:62:SER:HB2	1:AE:73:ASN:HD21	1.49	0.77
1:AB:62:SER:HB2	1:AB:73:ASN:HD21	1.49	0.77
1:BD:62:SER:HB2	1:BD:73:ASN:HD21	1.49	0.77
2:CD:44:PRO:HB2	2:CD:47:VAL:CG2	2.13	0.77
1:AA:121:LEU:CD1	1:AB:206:GLY:HA3	2.15	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	191.65	0.77
1:AP:121:LEU:CD1	1:AQ:206:GLY:HA3	2.15	0.77
1:BE:121:LEU:CD1	1:BF:206:GLY:HA3	2.15	0.77
1:BH:121:LEU:CD1	1:BI:206:GLY:HA3	2.15	0.77
1:BG:121:LEU:CD1	1:BH:206:GLY:HA3	2.15	0.77
1:A3:121:LEU:CD1	1:A4:206:GLY:HA3	2.15	0.77
2:CA:124:LEU:HD22	2:CA:196:ILE:HG22	1.66	0.77
1:AR:62:SER:HB2	1:AR:73:ASN:HD21	1.49	0.77
1:BC:60:PHE:CE2	1:BC:167:VAL:HG11	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:62:SER:HB2	1:BH:73:ASN:HD21	1.49	0.77
1:A2:174:TRP:HB2	2:C3:188:LEU:HD23	1.65	0.77
1:AC:62:SER:HB2	1:AC:73:ASN:HD21	1.49	0.77
1:AL:62:SER:HB2	1:AL:73:ASN:HD21	1.49	0.77
2:C0:124:LEU:HD22	2:C0:196:ILE:HG22	1.66	0.77
1:AO:86:ILE:HD12	1:AO:86:ILE:N	2.00	0.77
1:AB:86:ILE:N	1:AB:86:ILE:HD12	2.00	0.77
2:CC:124:LEU:HD22	2:CC:196:ILE:HG22	1.66	0.77
2:CJ:124:LEU:HD22	2:CJ:196:ILE:HG22	1.66	0.77
2:CK:213:MET:HE3	2:CK:215:VAL:HG22	1.64	0.77
2:CQ:104:VAL:CG1	2:CQ:222:VAL:HG22	2.06	0.77
2:C1:44:PRO:HB2	2:C1:47:VAL:CG2	2.13	0.77
1:AJ:121:LEU:CD1	1:AK:206:GLY:HA3	293.71	0.77
1:AU:121:LEU:CD1	1:AV:206:GLY:HA3	2.14	0.77
1:AB:174:TRP:HB2	2:CB:188:LEU:HD23	1.65	0.77
1:AP:174:TRP:HB2	2:CP:188:LEU:HD23	1.65	0.77
1:A5:170:PHE:HD2	1:A5:222:ARG:CZ	1.95	0.77
1:AM:60:PHE:CE2	1:AM:167:VAL:HG11	2.18	0.77
2:CO:180:PRO:HD2	2:CO:189:HIS:CE1	2.19	0.77
1:BF:174:TRP:HB2	2:CU:188:LEU:HD23	260.15	0.77
2:CW:124:LEU:HD22	2:CW:196:ILE:HG22	1.66	0.77
1:BC:174:TRP:HB2	2:CR:188:LEU:HD23	160.98	0.77
2:C0:180:PRO:HD2	2:C0:189:HIS:CE1	2.19	0.77
1:AZ:60:PHE:CE2	1:AZ:167:VAL:HG11	2.18	0.77
1:AM:62:SER:HB2	1:AM:73:ASN:HD21	1.49	0.77
2:CQ:124:LEU:HD22	2:CQ:196:ILE:HG22	1.66	0.77
1:AE:86:ILE:N	1:AE:86:ILE:HD12	2.00	0.77
1:A7:86:ILE:N	1:A7:86:ILE:HD12	2.00	0.77
1:AP:62:SER:HB2	1:AP:73:ASN:HD21	1.49	0.77
2:CU:104:VAL:CG1	2:CU:222:VAL:HG22	2.06	0.77
1:A8:206:GLY:HA3	1:AB:121:LEU:CD1	231.05	0.77
1:AV:121:LEU:CD1	1:AW:206:GLY:HA3	2.15	0.77
1:A5:121:LEU:CD1	1:A6:206:GLY:HA3	2.15	0.77
1:AF:174:TRP:HB2	2:CH:188:LEU:HD23	101.85	0.77
1:A1:170:PHE:HD2	1:A1:222:ARG:CZ	1.96	0.77
1:AR:60:PHE:CE2	1:AR:167:VAL:HG11	2.18	0.77
1:A5:174:TRP:HB2	2:C6:188:LEU:HD23	1.65	0.77
1:AS:62:SER:HB2	1:AS:73:ASN:HD21	1.49	0.77
1:AY:86:ILE:HD12	1:AY:86:ILE:N	2.00	0.77
1:AH:86:ILE:N	1:AH:86:ILE:HD12	2.00	0.77
1:AA:86:ILE:HD12	1:AA:86:ILE:N	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:86:ILE:HD12	1:A9:86:ILE:N	2.00	0.77
1:AK:86:ILE:HD12	1:AK:86:ILE:N	2.00	0.77
1:AG:62:SER:HB2	1:AG:73:ASN:HD21	1.49	0.77
2:C2:154:GLN:O	2:C2:157:VAL:HG12	1.83	0.77
2:CV:213:MET:HE3	2:CV:215:VAL:HG22	2.84	0.77
2:C4:104:VAL:CG1	2:C4:222:VAL:HG22	2.06	0.77
1:AW:121:LEU:CD1	1:AX:206:GLY:HA3	2.15	0.77
1:A6:121:LEU:CD1	1:A7:206:GLY:HA3	2.15	0.77
1:AD:174:TRP:HB2	2:CF:188:LEU:HD23	106.81	0.77
2:CY:124:LEU:HD22	2:CY:196:ILE:HG22	1.66	0.77
1:AR:174:TRP:HB2	2:CR:188:LEU:HD23	1.65	0.77
2:CQ:180:PRO:HD2	2:CQ:189:HIS:CE1	2.19	0.77
2:C6:180:PRO:HD2	2:C6:189:HIS:CE1	2.19	0.77
1:AA:62:SER:HB2	1:AA:73:ASN:HD21	1.49	0.77
2:CM:124:LEU:HD22	2:CM:196:ILE:HG22	1.66	0.77
1:A1:86:ILE:HD12	1:A1:86:ILE:N	2.00	0.77
1:AL:86:ILE:N	1:AL:86:ILE:HD12	2.00	0.77
1:AN:86:ILE:N	1:AN:86:ILE:HD12	2.00	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
1:AT:86:ILE:HD12	1:AT:86:ILE:N	2.00	0.77
2:C0:44:PRO:HB2	2:C0:47:VAL:CG2	2.13	0.77
2:CR:44:PRO:HB2	2:CR:47:VAL:CG2	2.13	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:BB:121:LEU:CD1	1:BC:206:GLY:HA3	2.15	0.77
1:BA:174:TRP:HB2	2:CP:188:LEU:HD23	105.65	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:CS:124:LEU:HD22	2:CS:196:ILE:HG22	1.66	0.77
1:AC:86:ILE:HD12	1:AC:86:ILE:N	2.00	0.77
1:BE:86:ILE:N	1:BE:86:ILE:HD12	2.00	0.77
1:AQ:86:ILE:N	1:AQ:86:ILE:HD12	2.00	0.77
1:AZ:86:ILE:N	1:AZ:86:ILE:HD12	2.00	0.77
1:BI:86:ILE:N	1:BI:86:ILE:HD12	2.00	0.77
1:AY:62:SER:HB2	1:AY:73:ASN:HD21	1.49	0.77
2:C6:44:PRO:HB2	2:C6:47:VAL:CG2	2.13	0.77
1:AF:121:LEU:CD1	1:AG:206:GLY:HA3	2.15	0.77
1:AK:121:LEU:CD1	1:AL:206:GLY:HA3	2.15	0.77
1:AT:121:LEU:CD1	1:AU:206:GLY:HA3	2.15	0.77
1:AI:62:SER:HB2	1:AI:73:ASN:HD21	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:124:LEU:HD22	2:CX:196:ILE:HG22	1.66	0.77
1:AW:86:ILE:N	1:AW:86:ILE:HD12	2.00	0.77
1:AG:86:ILE:HD12	1:AG:86:ILE:N	2.00	0.77
1:AS:86:ILE:HD12	1:AS:86:ILE:N	2.00	0.77
1:BF:62:SER:HB2	1:BF:73:ASN:HD21	1.49	0.77
2:CU:44:PRO:HB2	2:CU:47:VAL:CG2	2.13	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
2:CN:124:LEU:HD22	2:CN:196:ILE:HG22	1.66	0.77
1:A2:62:SER:HB2	1:A2:73:ASN:HD21	1.49	0.77
1:BD:86:ILE:N	1:BD:86:ILE:HD12	2.00	0.77
1:AI:86:ILE:HD12	1:AI:86:ILE:N	2.00	0.77
1:A0:86:ILE:HD12	1:A0:86:ILE:N	2.00	0.77
1:AI:121:LEU:CD1	1:AJ:206:GLY:HA3	2.15	0.77
1:AK:206:GLY:HA3	1:AO:121:LEU:CD1	2.15	0.77
1:A3:174:TRP:HB2	2:C4:188:LEU:HD23	1.65	0.77
2:CO:124:LEU:HD22	2:CO:196:ILE:HG22	1.66	0.77
1:AZ:174:TRP:HB2	2:C0:188:LEU:HD23	1.65	0.77
1:A9:62:SER:HB2	1:A9:73:ASN:HD21	1.49	0.77
1:BB:86:ILE:HD12	1:BB:86:ILE:N	2.00	0.77
1:A4:62:SER:HB2	1:A4:73:ASN:HD21	1.49	0.77
1:A2:60:PHE:CE2	1:A2:167:VAL:HG11	2.18	0.77
2:CU:180:PRO:HD2	2:CU:189:HIS:CE1	2.19	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:AO:174:TRP:HB2	2:CO:188:LEU:HD23	1.65	0.77
1:AA:174:TRP:HB2	2:CA:188:LEU:HD23	1.65	0.77
1:AL:174:TRP:HB2	2:CN:188:LEU:HD23	101.85	0.77
2:CL:124:LEU:HD22	2:CL:196:ILE:HG22	1.66	0.77
2:CY:180:PRO:HD2	2:CY:189:HIS:CE1	2.19	0.77
1:A3:62:SER:HB2	1:A3:73:ASN:HD21	1.49	0.77
2:CI:124:LEU:HD22	2:CI:196:ILE:HG22	1.66	0.77
1:AU:62:SER:HB2	1:AU:73:ASN:HD21	1.49	0.77
1:A4:86:ILE:HD12	1:A4:86:ILE:N	2.00	0.77
1:AX:86:ILE:N	1:AX:86:ILE:HD12	2.00	0.77
1:BG:86:ILE:N	1:BG:86:ILE:HD12	2.00	0.77
1:AX:62:SER:HB2	1:AX:73:ASN:HD21	1.49	0.77
2:CV:104:VAL:CG1	2:CV:222:VAL:HG22	2.06	0.76
2:CX:44:PRO:HB2	2:CX:47:VAL:CG2	2.13	0.76
1:AH:206:GLY:HA3	1:AL:121:LEU:CD1	295.73	0.76
1:AK:174:TRP:HB2	2:CM:188:LEU:HD23	101.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:174:TRP:HB2	2:CK:188:LEU:HD23	1.65	0.76
2:CT:124:LEU:HD22	2:CT:196:ILE:HG22	1.66	0.76
1:A2:86:ILE:HD12	1:A2:86:ILE:N	2.00	0.76
1:AM:86:ILE:HD12	1:AM:86:ILE:N	2.00	0.76
1:AV:86:ILE:N	1:AV:86:ILE:HD12	2.00	0.76
1:AR:86:ILE:HD12	1:AR:86:ILE:N	2.00	0.76
2:C4:213:MET:HE3	2:C4:215:VAL:HG22	1.66	0.76
1:AF:206:GLY:HA3	1:AJ:121:LEU:CD1	2.15	0.76
1:BD:174:TRP:HB2	2:CS:188:LEU:HD23	162.29	0.76
1:AF:174:TRP:HB2	2:CF:188:LEU:HD23	1.65	0.76
1:A8:86:ILE:N	1:A8:86:ILE:HD12	2.00	0.76
1:AJ:86:ILE:N	1:AJ:86:ILE:HD12	2.00	0.76
1:AY:121:LEU:CD1	1:AZ:206:GLY:HA3	2.15	0.76
1:AQ:62:SER:HB2	1:AQ:73:ASN:HD21	1.49	0.76
1:BA:86:ILE:HD12	1:BA:86:ILE:N	2.00	0.76
2:C2:213:MET:HE3	2:C2:215:VAL:HG22	1.66	0.76
2:CW:44:PRO:HB2	2:CW:47:VAL:CG2	2.13	0.76
1:AM:206:GLY:HA3	1:BD:121:LEU:CD1	252.67	0.76
1:BA:62:SER:HB2	1:BA:73:ASN:HD21	1.49	0.76
2:CH:213:MET:HE2	2:CH:215:VAL:HG22	2.27	0.76
2:CD:213:MET:HE3	2:CD:215:VAL:HG22	1.66	0.76
1:AA:206:GLY:HA3	1:AN:121:LEU:CD1	267.25	0.76
1:AN:121:LEU:CD1	1:AO:206:GLY:HA3	2.15	0.76
1:AO:206:GLY:HA3	1:AR:121:LEU:CD1	139.34	0.76
1:A2:121:LEU:CD1	1:AY:206:GLY:HA3	2.15	0.76
2:CE:124:LEU:HD22	2:CE:196:ILE:HG22	1.66	0.76
1:AT:174:TRP:HB2	2:CU:188:LEU:HD23	1.65	0.76
1:AW:62:SER:HB2	1:AW:73:ASN:HD21	1.49	0.76
1:AV:62:SER:HB2	1:AV:73:ASN:HD21	1.49	0.76
1:AU:86:ILE:HD12	1:AU:86:ILE:N	2.00	0.76
2:CQ:44:PRO:HB2	2:CQ:47:VAL:CG2	2.13	0.76
1:AG:121:LEU:CD1	1:AH:206:GLY:HA3	2.15	0.76
1:AM:121:LEU:CD1	1:BA:206:GLY:HA3	231.05	0.76
1:AO:121:LEU:CD1	1:AS:206:GLY:HA3	123.29	0.76
1:BA:121:LEU:CD1	1:BB:206:GLY:HA3	2.15	0.76
1:AZ:62:SER:HB2	1:AZ:73:ASN:HD21	1.49	0.76
1:BC:86:ILE:N	1:BC:86:ILE:HD12	2.00	0.76
1:AF:86:ILE:HD12	1:AF:86:ILE:N	2.00	0.76
1:A5:86:ILE:N	1:A5:86:ILE:HD12	2.00	0.76
1:AY:174:TRP:HB2	2:CZ:188:LEU:HD23	1.65	0.76
1:AB:121:LEU:CD1	1:AC:206:GLY:HA3	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:62:SER:HB2	1:BI:73:ASN:HD21	1.49	0.76
2:CZ:44:PRO:HB2	2:CZ:47:VAL:CG2	2.13	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	258.26	0.76
1:BG:62:SER:HB2	1:BG:73:ASN:HD21	1.49	0.76
2:CJ:213:MET:HE3	2:CJ:215:VAL:HG22	1.72	0.76
2:C9:213:MET:HE3	2:C9:215:VAL:HG22	1.68	0.76
1:AP:223:PRO:HB3	2:CP:154:GLN:HB3	1.68	0.76
1:A7:62:SER:HB2	1:A7:73:ASN:HD21	1.49	0.76
1:AP:86:ILE:N	1:AP:86:ILE:HD12	2.00	0.76
1:A6:86:ILE:HD12	1:A6:86:ILE:N	2.00	0.76
1:AE:164:TRP:HE1	1:AE:187:LEU:HD11	1.51	0.76
1:AX:164:TRP:HE1	1:AX:187:LEU:HD11	1.51	0.76
1:AO:223:PRO:HB3	2:CO:154:GLN:HB3	1.68	0.76
1:AB:223:PRO:HB3	2:CB:154:GLN:HB3	1.68	0.76
1:AX:174:TRP:HB2	2:CY:188:LEU:HD23	1.65	0.76
1:A3:86:ILE:N	1:A3:86:ILE:HD12	2.00	0.76
2:CC:44:PRO:HB2	2:CC:47:VAL:CG2	2.13	0.75
1:AM:164:TRP:HE1	1:AM:187:LEU:HD11	1.52	0.75
1:AK:223:PRO:HB3	2:CK:154:GLN:HB3	1.68	0.75
1:AD:223:PRO:HB3	2:CD:154:GLN:HB3	1.68	0.75
1:AY:223:PRO:HB3	2:CZ:154:GLN:HB3	1.69	0.75
2:CK:124:LEU:HD22	2:CK:196:ILE:HG22	1.66	0.75
1:A8:62:SER:HB2	1:A8:73:ASN:HD21	1.49	0.75
1:AT:62:SER:HB2	1:AT:73:ASN:HD21	1.49	0.75
1:AD:86:ILE:N	1:AD:86:ILE:HD12	2.00	0.75
1:A1:121:LEU:CD1	1:A2:206:GLY:HA3	2.15	0.75
1:A0:206:GLY:HA3	1:AZ:121:LEU:CD1	2.15	0.75
1:AG:223:PRO:HB3	2:CI:154:GLN:HB3	93.91	0.75
1:BD:223:PRO:HB3	2:CS:154:GLN:HB3	154.87	0.75
1:AJ:223:PRO:HB3	2:CL:154:GLN:HB3	257.86	0.75
1:BI:223:PRO:HB3	2:CX:154:GLN:HB3	180.27	0.75
1:AM:101:PHE:HD2	1:AM:143:VAL:CG1	2.00	0.75
1:AE:223:PRO:HB3	2:CG:154:GLN:HB3	116.33	0.75
1:A9:223:PRO:HB3	2:CA:154:GLN:HB3	242.47	0.75
1:AN:223:PRO:HB3	2:CN:154:GLN:HB3	1.69	0.75
1:BH:223:PRO:HB3	2:CW:154:GLN:HB3	237.76	0.75
2:CB:124:LEU:HD22	2:CB:196:ILE:HG22	1.66	0.75
2:C5:44:PRO:HB2	2:C5:47:VAL:CG2	2.13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:AN:101:PHE:HD2	1:AN:143:VAL:CG1	2.00	0.75
1:AT:206:GLY:HA3	1:AX:121:LEU:CD1	2.15	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
1:A7:101:PHE:HD2	1:A7:143:VAL:CG1	2.00	0.75
1:A0:121:LEU:CD1	1:A1:206:GLY:HA3	2.15	0.75
1:A0:101:PHE:HD2	1:A0:143:VAL:CG1	2.00	0.75
2:CO:209:VAL:N	2:CO:210:PRO:HD3	2.02	0.75
1:AI:223:PRO:HB3	2:CK:154:GLN:HB3	260.55	0.75
1:AM:223:PRO:HB3	2:CM:154:GLN:HB3	1.69	0.75
1:AC:223:PRO:HB3	2:CE:154:GLN:HB3	93.91	0.75
1:AL:223:PRO:HB3	2:CN:154:GLN:HB3	93.91	0.75
1:BB:223:PRO:HB3	2:CQ:154:GLN:HB3	115.75	0.75
2:C9:44:PRO:HB2	2:C9:47:VAL:CG2	2.13	0.75
1:AB:101:PHE:HD2	1:AB:143:VAL:CG1	2.00	0.75
1:AC:101:PHE:HD2	1:AC:143:VAL:CG1	2.00	0.75
1:AI:101:PHE:HD2	1:AI:143:VAL:CG1	2.00	0.75
1:AS:101:PHE:HD2	1:AS:143:VAL:CG1	2.00	0.75
1:A6:101:PHE:HD2	1:A6:143:VAL:CG1	2.00	0.75
1:A1:101:PHE:HD2	1:A1:143:VAL:CG1	2.00	0.75
2:CU:209:VAL:N	2:CU:210:PRO:HD3	2.02	0.75
2:CJ:209:VAL:N	2:CJ:210:PRO:HD3	2.02	0.75
1:AB:223:PRO:HB3	2:CD:154:GLN:HB3	93.91	0.75
1:BF:223:PRO:HB3	2:CU:154:GLN:HB3	242.47	0.75
1:AU:223:PRO:HB3	2:CV:154:GLN:HB3	1.68	0.75
1:A1:223:PRO:HB3	2:C2:154:GLN:HB3	1.68	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
1:AZ:101:PHE:HD2	1:AZ:143:VAL:CG1	2.00	0.75
1:AP:164:TRP:HE1	1:AP:187:LEU:HD11	1.51	0.75
2:CE:209:VAL:N	2:CE:210:PRO:HD3	2.02	0.75
2:CD:209:VAL:N	2:CD:210:PRO:HD3	2.02	0.75
2:CL:209:VAL:N	2:CL:210:PRO:HD3	2.02	0.75
2:CU:58:LEU:CD1	2:CU:94:PHE:HA	2.17	0.75
2:C6:58:LEU:CD1	2:C6:94:PHE:HA	2.17	0.75
2:CK:58:LEU:CD1	2:CK: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)
1:AA:223:PRO:HB3	2:CC:154:GLN:HB3	93.90	0.75
1:AH:223:PRO:HB3	2:CH:154:GLN:HB3	1.68	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:A8:223:PRO:HB3	2:C9:154:GLN:HB3	1.69	0.75
1:AA:101:PHE:HD2	1:AA:143:VAL:CG1	2.00	0.75
1:A9:164:TRP:HE1	1:A9:187:LEU:HD11	1.52	0.75
1:A5:101:PHE:HD2	1:A5:143:VAL:CG1	2.00	0.75
2:CH:209:VAL:N	2:CH:210:PRO:HD3	2.02	0.75
2:CA:209:VAL:N	2:CA:210:PRO:HD3	2.02	0.75
2:CM:209:VAL:N	2:CM:210:PRO:HD3	2.02	0.75
2:C9:58:LEU:CD1	2:C9:94:PHE:HA	2.17	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:CE:58:LEU:CD1	2:CE:94:PHE:HA	2.17	0.75
2:CT:58:LEU:CD1	2:CT:94:PHE:HA	2.17	0.75
2:C3:58:LEU:CD1	2:C3:94:PHE:HA	2.17	0.75
1:A4:223:PRO:HB3	2:C5:154:GLN:HB3	1.69	0.75
1:A3:223:PRO:HB3	2:C4:154:GLN:HB3	1.68	0.75
1:AJ:101:PHE:HD2	1:AJ:143:VAL:CG1	2.00	0.75
1:AP:101:PHE:HD2	1:AP:143:VAL:CG1	2.00	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:A3:101:PHE:HD2	1:A3:143:VAL:CG1	2.00	0.75
1:AL:164:TRP:HE1	1:AL:187:LEU:HD11	1.51	0.75
1:BF:164:TRP:HE1	1:BF:187:LEU:HD11	1.52	0.75
2:CQ:209:VAL:N	2:CQ:210:PRO:HD3	2.02	0.75
2:CC:209:VAL:N	2:CC:210:PRO:HD3	2.02	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:CG:58:LEU:CD1	2:CG:94:PHE:HA	2.17	0.75
2:CY:58:LEU:CD1	2:CY:94:PHE:HA	2.17	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:AN:223:PRO:HB3	2:CB:154:GLN:HB3	194.25	0.75
1:AS:223:PRO:HB3	2:CT:154:GLN:HB3	1.69	0.75
1:BC:223:PRO:HB3	2:CR:154:GLN:HB3	148.19	0.75
1:AN:219:TYR:CD2	3:DB:39:ARG:HB2	182.16	0.75
1:AM:219:TYR:CD2	3:DO:39:ARG:HB2	73.78	0.75
3:DE:116:THR:HG23	3:DE:191:LEU:CD2	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:101:PHE:HD2	1:AO:143:VAL:CG1	2.00	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
1:AK:164:TRP:HE1	1:AK:187:LEU:HD11	1.52	0.75
1:AO:164:TRP:HE1	1:AO:187:LEU:HD11	1.51	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:CF:58:LEU:CD1	2:CF:94:PHE:HA	2.17	0.75
2:CX:58:LEU:CD1	2:CX:94:PHE:HA	2.17	0.75
2:CV:58:LEU:CD1	2:CV:94:PHE:HA	2.17	0.75
1:AK:223:PRO:HB3	2:CM:154:GLN:HB3	93.91	0.75
1:AO:223:PRO:HB3	2:CS:154:GLN:HB3	131.21	0.75
1:AD:223:PRO:HB3	2:CF:154:GLN:HB3	110.39	0.75
1:AX:223:PRO:HB3	2:CY:154:GLN:HB3	1.68	0.75
1:A5:223:PRO:HB3	2:C6:154:GLN:HB3	1.69	0.75
1:BB:62:SER:HB2	1:BB:73:ASN:HD21	1.49	0.75
3:DO:116:THR:HG23	3:DO:191:LEU:CD2	2.17	0.74
2:C3:44:PRO:HB2	2:C3:47:VAL:CG2	2.13	0.74
1:AE:101:PHE:HD2	1:AE:143:VAL:CG1	2.00	0.74
1:AG:101:PHE:HD2	1:AG:143:VAL:CG1	2.00	0.74
1:AC:164:TRP:HE1	1:AC:187:LEU:HD11	1.52	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
2:C0:209:VAL:N	2:C0:210:PRO:HD3	2.02	0.74
2:CX:209:VAL:N	2:CX:210:PRO:HD3	2.02	0.74
2:C5:58:LEU:CD1	2:C5:94:PHE:HA	2.17	0.74
2:CP:58:LEU:CD1	2:CP:94:PHE:HA	2.17	0.74
1:AE:223:PRO:HB3	2:CE:154:GLN:HB3	1.68	0.74
1:AH:223:PRO:HB3	2:CJ:154:GLN:HB3	93.91	0.74
1:A9:219:TYR:CD2	3:DA:39:ARG:HB2	220.61	0.74
1:AE:219:TYR:CD2	3:DG:39:ARG:HB2	112.64	0.74
1:AG:219:TYR:CD2	3:DI:39:ARG:HB2	73.78	0.74
1:A6:219:TYR:CD2	3:D7:39:ARG:HB2	2.22	0.74
2:CY:104:VAL:CG1	2:CY:222:VAL:HG22	2.06	0.74
1:AT:101:PHE:HD2	1:AT:143:VAL:CG1	2.00	0.74
1:AD:164:TRP:HE1	1:AD:187:LEU:HD11	1.51	0.74
1:AH:164:TRP:HE1	1:AH:187:LEU:HD11	1.52	0.74
2:CW:209:VAL:N	2:CW:210:PRO:HD3	2.02	0.74
2:CI:58:LEU:CD1	2:CI:94:PHE:HA	2.17	0.74
1:AL:223:PRO:HB3	2:CL:154:GLN:HB3	1.69	0.74
1:BA:223:PRO:HB3	2:CP:154:GLN:HB3	113.07	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:219:TYR:CD2	3:D8:39:ARG:HB2	2.22	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:AC:219:TYR:CD2	3:DE:39:ARG:HB2	73.78	0.74
1:AM:219:TYR:CD2	3:DM:39:ARG:HB2	2.22	0.74
1:BA:219:TYR:CD2	3:DP:39:ARG:HB2	101.80	0.74
1:BC:219:TYR:CD2	3:DR:39:ARG:HB2	134.86	0.74
1:BG:219:TYR:CD2	3:EC:39:ARG:HB2	2.22	0.74
1:AS:219:TYR:CD2	3:DT:39:ARG:HB2	2.23	0.74
1:BE:219:TYR:CD2	3:EA:39:ARG:HB2	2.22	0.74
1:AQ:219:TYR:CD2	3:DQ:39:ARG:HB2	2.22	0.74
3:ED:116:THR:HG23	3:ED:191:LEU:CD2	2.17	0.74
3:DB:116:THR:HG23	3:DB:191:LEU:CD2	2.18	0.74
1:A9:101:PHE:HD2	1:A9:143:VAL:CG1	2.00	0.74
1:A0:164:TRP:HE1	1:A0:187:LEU:HD11	1.52	0.74
2:CP:209:VAL:N	2:CP:210:PRO:HD3	2.02	0.74
2:C6:209:VAL:N	2:C6:210:PRO:HD3	2.02	0.74
2:CS:58:LEU:CD1	2:CS:94:PHE:HA	2.17	0.74
1:AB:219:TYR:CD2	3:DD:39:ARG:HB2	73.78	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:AE:219:TYR:CD2	3:DE:39:ARG:HB2	2.22	0.74
1:AT:219:TYR:CD2	3:DU:39:ARG:HB2	2.22	0.74
3:D9:116:THR:HG23	3:D9:191:LEU:CD2	2.18	0.74
3:D8:116:THR:HG23	3:D8:191:LEU:CD2	2.17	0.74
3:DU:116:THR:HG23	3:DU: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
2:CB:209:VAL:N	2:CB:210:PRO:HD3	2.02	0.74
2:CR:209:VAL:N	2:CR:210:PRO:HD3	2.02	0.74
2:C4:58:LEU:CD1	2:C4:94:PHE:HA	2.17	0.74
2:C2:58:LEU:CD1	2:C2:94:PHE:HA	2.17	0.74
2:CL:58:LEU:CD1	2:CL:94:PHE:HA	2.17	0.74
1:AF:223:PRO:HB3	2:CH:154:GLN:HB3	93.90	0.74
1:BE:223:PRO:HB3	2:CT:154:GLN:HB3	185.78	0.74
1:AH:219:TYR:CD2	3:DJ:39:ARG:HB2	73.78	0.74
1:AF:219:TYR:CD2	3:DH:39:ARG:HB2	73.78	0.74
1:AV:219:TYR:CD2	3:DW:39:ARG:HB2	2.22	0.74
3:DS:116:THR:HG23	3:DS:191:LEU:CD2	2.18	0.74
3:DR:116:THR:HG23	3:DR:191:LEU:CD2	2.18	0.74
3:DT:116:THR:HG23	3:DT:191:LEU:CD2	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:101:PHE:HD2	1:AL:143:VAL:CG1	2.00	0.74
1:AY:101:PHE:HD2	1:AY:143:VAL:CG1	2.00	0.74
2:CK:209:VAL:N	2:CK:210:PRO:HD3	2.02	0.74
2:CA:58:LEU:CD1	2:CA:94:PHE:HA	2.17	0.74
1:AF:223:PRO:HB3	2:CF:154:GLN:HB3	1.69	0.74
1:AK:219:TYR:CD2	3:DM:39:ARG:HB2	73.78	0.74
1:AA:219:TYR:CD2	3:DA:39:ARG:HB2	2.22	0.74
1:AI:219:TYR:CD2	3:DK:39:ARG:HB2	237.92	0.74
1:AW:219:TYR:CD2	3:DX:39:ARG:HB2	2.22	0.74
1:A7:223:PRO:HB3	2:C8:154:GLN:HB3	1.69	0.74
1:A4:219:TYR:CD2	3:D5:39:ARG:HB2	2.22	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
2:C3:209:VAL:N	2:C3:210:PRO:HD3	2.02	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: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:CM:58:LEU:CD1	2:CM:94:PHE:HA	2.17	0.74
1:AJ:219:TYR:CD2	3:DL:39:ARG:HB2	230.68	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
3:DH:116:THR:HG23	3:DH:191:LEU:CD2	2.18	0.74
3:DG:116:THR:HG23	3:DG:191:LEU:CD2	2.18	0.74
3:DP:116:THR:HG23	3:DP:191:LEU:CD2	2.18	0.74
1:AR:101:PHE:HD2	1:AR:143:VAL:CG1	2.00	0.74
1:A7:164:TRP:HE1	1:A7:187:LEU:HD11	1.52	0.74
1:AT:223:PRO:HB3	2:CU:154:GLN:HB3	1.69	0.74
1:AD:219:TYR:CD2	3:DF:39:ARG:HB2	98.87	0.74
1:AF:219:TYR:CD2	3:DF:39:ARG:HB2	2.22	0.74
1:AO:219:TYR:CD2	3:DS:39:ARG:HB2	103.46	0.74
1:A1:219:TYR:CD2	3:D2:39:ARG:HB2	2.22	0.74
1:AP:219:TYR:CD2	3:DP:39:ARG:HB2	2.22	0.74
1:AU:219:TYR:CD2	3:DV:39:ARG:HB2	2.22	0.74
1:BB:219:TYR:CD2	3:DQ:39:ARG:HB2	113.35	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: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:A4:101:PHE:HD2	1:A4:143:VAL:CG1	2.00	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CN:209:VAL:N	2:CN:210:PRO:HD3	2.02	0.74
2:CT:209:VAL:N	2:CT:210:PRO:HD3	2.02	0.74
2:C7:209:VAL:N	2:C7:210:PRO:HD3	2.02	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:AO:219:TYR:CD2	3:DO:39:ARG:HB2	2.22	0.74
1:AC:219:TYR:CD2	3:DC:39:ARG:HB2	2.22	0.74
1:AK:219:TYR:CD2	3:DK:39:ARG:HB2	2.22	0.74
1:BH:219:TYR:CD2	3:ED:39:ARG:HB2	2.22	0.74
2:CC:212:THR:OG1	3:ED:189:THR:HG23	244.30	0.74
2:CL:212:THR:OG1	3:D8:189:THR:HG23	117.44	0.74
2:CN:212:THR:OG1	3:D2:189:THR:HG23	1.88	0.74
1:AK:15:PRO:HG3	3:DK:157:ASN:ND2	2.03	0.74
1:AO:15:PRO:HG3	3:DS:157:ASN:ND2	147.44	0.74
1:AP:15:PRO:HG3	3:DP:157:ASN:ND2	2.03	0.74
1:AB:15:PRO:HG3	3:DB:157:ASN:ND2	2.03	0.74
1:AQ:101:PHE:HD2	1:AQ:143:VAL:CG1	2.00	0.74
2:CI:209:VAL:N	2:CI:210:PRO:HD3	2.02	0.74
2:C1:209:VAL:N	2:C1:210:PRO:HD3	2.02	0.74
2:C5:209:VAL:N	2:C5:210:PRO:HD3	2.02	0.74
2:CW:58:LEU:CD1	2:CW:94:PHE:HA	2.17	0.74
1:AB:219:TYR:CD2	3:DB:39:ARG:HB2	2.22	0.74
1:BD:219:TYR:CD2	3:DS:39:ARG:HB2	137.79	0.74
1:BI:219:TYR:CD2	3:EE:39:ARG:HB2	2.22	0.74
1:A5:219:TYR:CD2	3:D6:39:ARG:HB2	2.22	0.74
2:CM:212:THR:OG1	3:DI:189:THR:HG23	258.27	0.74
2:CR:212:THR:OG1	3:DI:189:THR:HG23	160.72	0.74
3:DM:116:THR:HG23	3:DM:191:LEU:CD2	2.18	0.74
3:DK:116:THR:HG23	3:DK:191:LEU:CD2	2.18	0.74
2:CU:212:THR:OG1	3:D5:189:THR:HG23	257.05	0.74
2:CU:212:THR:OG1	3:DG:189:THR:HG23	243.55	0.74
3:D4:116:THR:HG23	3:D4:191:LEU:CD2	2.18	0.74
2:CX:212:THR:OG1	3:DO:189:THR:HG23	210.12	0.74
3:DF:116:THR:HG23	3:DF:191:LEU:CD2	2.17	0.74
2:CP:212:THR:OG1	3:D0:189:THR:HG23	89.59	0.74
1:A8:15:PRO:HG3	3:D9:157: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:AC:15:PRO:HG3	3:DC:157:ASN:ND2	2.03	0.74
1:AH:15:PRO:HG3	3:DJ:157:ASN:ND2	100.40	0.74
1:AK:15:PRO:HG3	3:DM:157:ASN:ND2	100.40	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:101:PHE:HD2	1:BB:143:VAL:CG1	2.00	0.74
1:AF:112:PRO:HD2	3:DI:220:VAL:CG1	67.26	0.74
2:C9:209:VAL:N	2:C9:210:PRO:HD3	2.02	0.74
1:AV:75:CYS:O	1:AV:222:ARG:HD2	1.88	0.74
1:BF:219:TYR:CD2	3:EB:39:ARG:HB2	2.22	0.74
3:DD:116:THR:HG23	3:DD:191:LEU:CD2	2.17	0.73
2:CG:212:THR:OG1	3:D3:189:THR:HG23	257.05	0.73
1:AB:15:PRO:HG3	3:DD:157:ASN:ND2	100.40	0.73
1:AG:15:PRO:HG3	3:DI:157:ASN:ND2	100.40	0.73
1:AM:15:PRO:HG3	3:DO:157:ASN:ND2	100.40	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:BE:15:PRO:HG3	3:EA:157:ASN:ND2	2.03	0.73
1:A2:112:PRO:HD2	3:DZ:220:VAL:CG1	2.18	0.73
2:C4:209:VAL:N	2:C4:210:PRO:HD3	2.02	0.73
2:CH:58:LEU:CD1	2:CH:94:PHE:HA	2.17	0.73
2:CD:58:LEU:CD1	2:CD:94:PHE:HA	2.17	0.73
2:CQ:58:LEU:CD1	2:CQ:94:PHE:HA	2.17	0.73
1:AZ:75:CYS:O	1:AZ:222:ARG:HD2	1.88	0.73
1:BB:75:CYS:O	1:BB:222:ARG:HD2	1.88	0.73
1:A0:219:TYR:CD2	3:D1:39:ARG:HB2	2.22	0.73
2:C8:213:MET:HE3	2:C8:215:VAL:HG22	1.69	0.73
2:CW:212:THR:OG1	3:DJ:189:THR:HG23	1.88	0.73
2:CH:212:THR:OG1	3:DN:189:THR:HG23	258.27	0.73
3:DN:116:THR:HG23	3:DN:191:LEU:CD2	2.18	0.73
2:CV:212:THR:OG1	3:DB:189:THR:HG23	1.88	0.73
3:D7:116:THR:HG23	3:D7:191:LEU:CD2	2.18	0.73
2:C9:212:THR:OG1	3:DL:189:THR:HG23	85.77	0.73
2:CF:212:THR:OG1	3:DV:189:THR:HG23	188.10	0.73
2:C4:212:THR:OG1	3:EC:189:THR:HG23	1.88	0.73
1:AI:15:PRO:HG3	3:DK:157:ASN:ND2	228.46	0.73
1:AY:15:PRO:HG3	3:DZ:157:ASN:ND2	2.03	0.73
1:AE:112:PRO:HD2	3:DH:220:VAL:CG1	143.04	0.73
2:C1:58:LEU:CD1	2:C1:94:PHE:HA	2.17	0.73
2:C0:58:LEU:CD1	2:C0:94:PHE:HA	2.17	0.73
2:CZ:58:LEU:CD1	2:CZ:94:PHE:HA	2.17	0.73
1:AJ:75:CYS:O	1:AJ:222:ARG:HD2	1.88	0.73
1:AX:75:CYS:O	1:AX:222:ARG:HD2	1.88	0.73
1:BI:75:CYS:O	1:BI:222:ARG:HD2	1.88	0.73
1:A6:75:CYS:O	1:A6:222:ARG:HD2	1.88	0.73
1:AL:219:TYR:CD2	3:DN:39:ARG:HB2	73.78	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:219:TYR:CD2	3:D9:39:ARG:HB2	2.22	0.73
1:AZ:223:PRO:HB3	2:C0:154:GLN:HB3	1.68	0.73
2:CI:212:THR:OG1	3:DX:189:THR:HG23	1.88	0.73
2:CD:212:THR:OG1	3:D7:189:THR:HG23	1.88	0.73
2:CQ:212:THR:OG1	3:DP:189:THR:HG23	115.53	0.73
2:CG:212:THR:OG1	3:EB:189:THR:HG23	1.88	0.73
3:DV:116:THR:HG23	3:DV:191:LEU:CD2	2.17	0.73
1:AL:15:PRO:HG3	3:DL:157:ASN:ND2	2.03	0.73
1:AL:15:PRO:HG3	3:DN:157:ASN:ND2	100.40	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
3:EA:24:PRO:HB3	4:FT:30:TYR:O	157.99	0.73
1:AB:112:PRO:HD2	3:D9:220:VAL:CG1	211.26	0.73
1:BD:112:PRO:HD2	3:DO:220:VAL:CG1	211.27	0.73
1:A7:112:PRO:HD2	3:D4:220:VAL:CG1	2.18	0.73
2:CZ:209:VAL:N	2:CZ:210:PRO:HD3	2.02	0.73
2:CJ:58:LEU:CD1	2:CJ:94:PHE:HA	2.17	0.73
1:AG:75:CYS:O	1:AG:222:ARG:HD2	1.88	0.73
1:AG:219:TYR:CD2	3:DG:39:ARG:HB2	2.22	0.73
1:BG:223:PRO:HB3	2:CV:154:GLN:HB3	252.14	0.73
2:CW:213:MET:HE3	2:CW:215:VAL:HG22	1.71	0.73
2:CM:212:THR:OG1	3:DD:189:THR:HG23	160.72	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	270.62	0.73
2:CA:212:THR:OG1	3:DW:189:THR:HG23	1.88	0.73
2:C3:212:THR:OG1	3:DU:189:THR:HG23	1.88	0.73
3:D1:116:THR:HG23	3:D1:191:LEU:CD2	2.17	0.73
1:A9:15:PRO:HG3	3:DA:157:ASN:ND2	211.79	0.73
1:BC:15:PRO:HG3	3:DR:157:ASN:ND2	131.79	0.73
1:AZ:15:PRO:HG3	3:D0:157:ASN:ND2	2.03	0.73
3:DF:24:PRO:HB3	4:FF:30:TYR:O	1.89	0.73
3:EB:24:PRO:HB3	4:FU:30:TYR:O	220.43	0.73
3:EE:24:PRO:HB3	4:FX:30:TYR:O	187.52	0.73
3:DQ:24:PRO:HB3	4:FQ:30:TYR:O	1.89	0.73
1:AH:112:PRO:HD2	3:DI:220:VAL:CG1	2.18	0.73
1:AN:112:PRO:HD2	3:DO:220:VAL:CG1	2.18	0.73
1:A6:112:PRO:HD2	3:D8:220:VAL:CG1	2.18	0.73
1:AI:164:TRP:HE1	1:AI:187:LEU:HD11	1.52	0.73
1:BH:119:TRP:HB3	1:BH:130:ILE:HG23	1.70	0.73
1:AC:75:CYS:O	1:AC:222:ARG:HD2	1.89	0.73
1:AO:75:CYS:O	1:AO:222:ARG:HD2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:BH:75:CYS:O	1:BH:222:ARG:HD2	1.88	0.73
1:AI:219:TYR:CD2	3:DI:39:ARG:HB2	2.22	0.73
1:A3:219:TYR:CD2	3:D4:39:ARG:HB2	2.22	0.73
1:AY:219:TYR:CD2	3:DZ:39:ARG:HB2	2.22	0.73
1:A2:223:PRO:HB3	2:C3:154:GLN:HB3	1.69	0.73
2:CD:212:THR:OG1	3:D4:189:THR:HG23	147.76	0.73
3:DL:116:THR:HG23	3:DL:191:LEU:CD2	2.18	0.73
2:CN:212:THR:OG1	3:DE:189:THR:HG23	258.64	0.73
2:CE:212:THR:OG1	3:DC:189:THR:HG23	149.78	0.73
3:DC:116:THR:HG23	3:DC:191:LEU:CD2	2.17	0.73
2:CP:212:THR:OG1	3:D1:189:THR:HG23	1.88	0.73
1:BD:15:PRO:HG3	3:DS:157:ASN:ND2	144.46	0.73
1:AF:15:PRO:HG3	3:DH:157:ASN:ND2	100.40	0.73
1:AW:15:PRO:HG3	3:DX:157:ASN:ND2	2.03	0.73
3:DG:24:PRO:HB3	4:FG:30:TYR:O	1.89	0.73
3:DS:24:PRO:HB3	4:FS:30:TYR:O	1.89	0.73
1:AU:101:PHE:HD2	1:AU:143:VAL:CG1	2.00	0.73
1:AO:112:PRO:HD2	3:DK:220:VAL:CG1	2.18	0.73
3:D3:24:PRO:HB3	4:F3:30:TYR:O	1.89	0.73
1:AG:164:TRP:HE1	1:AG:187:LEU:HD11	1.51	0.73
1:BE:164:TRP:HE1	1:BE:187:LEU:HD11	1.51	0.73
1:BC:119:TRP:HB3	1:BC:130:ILE:HG23	1.70	0.73
1:A8:75:CYS:O	1:A8:222:ARG:HD2	1.88	0.73
1:AM:223:PRO:HB3	2:CO:154:GLN:HB3	93.91	0.73
1:AJ:223:PRO:HB3	2:CJ:154:GLN:HB3	1.69	0.73
1:AZ:219:TYR:CD2	3:D0:39:ARG:HB2	2.22	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:CQ:212:THR:OG1	3:DY:189:THR:HG23	117.44	0.73
2:CX:212:THR:OG1	3:DR:189:THR:HG23	151.74	0.73
1:AD:15:PRO:HG3	3:DF:157:ASN:ND2	112.27	0.73
1:AJ:15:PRO:HG3	3:DJ:157:ASN:ND2	2.03	0.73
1:BA:15:PRO:HG3	3:DP:157:ASN:ND2	110.53	0.73
1:AJ:15:PRO:HG3	3:DL:157:ASN:ND2	241.70	0.73
1:A4:15:PRO:HG3	3:D5:157:ASN:ND2	2.03	0.73
3:DX:24:PRO:HB3	4:FX:30:TYR:O	1.89	0.73
1:AQ:112:PRO:HD2	3:DR:220:VAL:CG1	2.18	0.73
1:AB:164:TRP:HE1	1:AB:187:LEU:HD11	1.52	0.73
1:AN:164:TRP:HE1	1:AN:187:LEU:HD11	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:112:PRO:HD2	3:DV:220:VAL:CG1	2.19	0.73
1:BF:112:PRO:HD2	3:EC:220:VAL:CG1	2.19	0.73
1:AC:119:TRP:HB3	1:AC:130:ILE:HG23	1.71	0.73
1:AR:119:TRP:HB3	1:AR:130:ILE:HG23	1.70	0.73
1:AI:75:CYS:O	1:AI:222:ARG:HD2	1.88	0.73
1:AM:75:CYS:O	1:AM:222:ARG:HD2	1.88	0.73
1:A5:75:CYS:O	1:A5:222:ARG:HD2	1.88	0.73
1:AW:75:CYS:O	1:AW:222:ARG:HD2	1.88	0.73
1:AU:75:CYS:O	1:AU:222:ARG:HD2	1.88	0.73
1:AQ:223:PRO:HB3	2:CQ:154:GLN:HB3	1.69	0.73
1:AA:219:TYR:CD2	3:DC:39:ARG:HB2	73.78	0.73
2:CI:212:THR:OG1	3:DJ:189:THR:HG23	55.68	0.73
2:CW:212:THR:OG1	3:DS:189:THR:HG23	244.30	0.73
2:C1:212:THR:OG1	3:DO:189:THR:HG23	1.88	0.73
2:CY:212:THR:OG1	3:DZ:189:THR:HG23	1.88	0.73
2:CF:212:THR:OG1	3:D6:189:THR:HG23	1.88	0.73
1:AI:15:PRO:HG3	3:DI:157:ASN:ND2	2.03	0.73
1:A2:15:PRO:HG3	3:D3:157:ASN:ND2	2.03	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:D4:24:PRO:HB3	4:F4:30:TYR:O	1.89	0.73
1:A9:112:PRO:HD2	3:DB:220:VAL:CG1	251.68	0.73
1:AD:112:PRO:HD2	3:DG:220:VAL:CG1	121.06	0.73
1:AB:112:PRO:HD2	3:DC:220:VAL:CG1	2.18	0.73
1:BB:112:PRO:HD2	3:DR:220:VAL:CG1	145.46	0.73
3:D0:24:PRO:HB3	4:F0:30:TYR:O	1.89	0.73
1:AA:164:TRP:HE1	1:AA:187:LEU:HD11	1.52	0.73
1:BB:164:TRP:HE1	1:BB:187:LEU:HD11	1.52	0.73
1:AR:164:TRP:HE1	1:AR:187:LEU:HD11	1.51	0.73
1:A1:112:PRO:HD2	3:D3:220:VAL:CG1	2.19	0.73
1:AB:119:TRP:HB3	1:AB:130:ILE:HG23	1.70	0.73
1:BE:119:TRP:HB3	1:BE:130:ILE:HG23	1.70	0.73
1:AN:119:TRP:HB3	1:AN:130:ILE:HG23	1.70	0.73
1:AE:75:CYS:O	1:AE:222:ARG:HD2	1.88	0.73
1:AD:75:CYS:O	1:AD:222:ARG:HD2	1.88	0.73
1:AW:223:PRO:HB3	2:CX:154:GLN:HB3	1.69	0.73
2:C8:212:THR:OG1	3:D9:189:THR:HG23	1.88	0.73
2:CK:212:THR:OG1	3:DB:189:THR:HG23	257.05	0.73
2:C1:213:MET:HE3	2:C1:215:VAL:HG22	1.70	0.73
2:CO:212:THR:OG1	3:DR:189:THR:HG23	147.76	0.73
2:CS:212:THR:OG1	3:EA:189:THR:HG23	160.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:15:PRO:HG3	3:DF:157:ASN:ND2	2.03	0.73
1:AX:15:PRO:HG3	3:DY:157:ASN:ND2	2.03	0.73
1:BC:101:PHE:HD2	1:BC:143:VAL:CG1	2.00	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
1:BC:112:PRO:HD2	3:DS:220:VAL:CG1	156.62	0.73
1:A5:112:PRO:HD2	3:D7:220:VAL:CG1	2.18	0.73
1:A4:164:TRP:HE1	1:A4:187:LEU:HD11	1.52	0.73
1:A3:112:PRO:HD2	3:D5:220:VAL:CG1	2.18	0.73
1:AL:119:TRP:HB3	1:AL:130:ILE:HG23	1.70	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
1:AW:119:TRP:HB3	1:AW:130:ILE:HG23	1.70	0.73
1:AN:75:CYS:O	1:AN:222:ARG:HD2	1.88	0.73
1:A0:223:PRO:HB3	2:C1:154:GLN:HB3	1.69	0.73
2:CJ:212:THR:OG1	3:DM:189:THR:HG23	232.63	0.73
1:BF:15:PRO:HG3	3:EB:157:ASN:ND2	2.03	0.73
1:AQ:15:PRO:HG3	3:DQ:157:ASN:ND2	2.03	0.73
1:BH:15:PRO:HG3	3:ED:157:ASN:ND2	2.03	0.73
3:DP:24:PRO:HB3	4:FP:30:TYR:O	1.89	0.73
1:A4:112:PRO:HD2	3:D6:220:VAL:CG1	2.18	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:AG:119:TRP:HB3	1:AG:130:ILE:HG23	1.71	0.73
1:BD:119:TRP:HB3	1:BD:130:ILE:HG23	1.70	0.73
1:A0:119:TRP:HB3	1:A0:130:ILE:HG23	1.70	0.73
1:AH:119:TRP:HB3	1:AH:130:ILE:HG23	1.71	0.73
2:CA:212:THR:OG1	3:DL:189:THR:HG23	257.05	0.73
3:D2:116:THR:HG23	3:D2:191:LEU:CD2	2.17	0.73
1:AN:15:PRO:HG3	3:DB:157:ASN:ND2	172.51	0.73
1:A6:15:PRO:HG3	3:D7:157:ASN:ND2	2.03	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:D5:24:PRO:HB3	4:F5:30:TYR:O	1.89	0.73
1:AJ:112:PRO:HD2	3:DM:220:VAL:CG1	261.61	0.73
1:AM:112:PRO:HD2	3:DN:220:VAL:CG1	2.18	0.73
1:AM:112:PRO:HD2	3:DP:220:VAL:CG1	131.55	0.73
1:AO:112:PRO:HD2	3:DT:220:VAL:CG1	91.83	0.73
3:D6:24:PRO:HB3	4:F6:30:TYR:O	1.89	0.73
3:D2:24:PRO:HB3	4:F2:30:TYR:O	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:164:TRP:HE1	1:BD:187:LEU:HD11	1.52	0.73
1:BA:164:TRP:HE1	1:BA:187:LEU:HD11	1.52	0.73
2:CS:209:VAL:N	2:CS:210:PRO:HD3	2.02	0.73
1:A3:119:TRP:HB3	1:A3:130:ILE:HG23	1.71	0.73
1:AO:119:TRP:HB3	1:AO:130:ILE:HG23	1.70	0.73
1:BB:119:TRP:HB3	1:BB:130:ILE:HG23	1.71	0.73
1:AK:75:CYS:O	1:AK:222:ARG:HD2	1.88	0.73
1:AH:75:CYS:O	1:AH:222:ARG:HD2	1.88	0.73
1:A2:219:TYR:CD2	3:D3:39:ARG:HB2	2.22	0.73
3:DQ:116:THR:HG23	3:DQ:191:LEU:CD2	2.17	0.72
1:AD:15:PRO:HG3	3:DD:157:ASN:ND2	2.03	0.72
1:AC:15:PRO:HG3	3:DE:157:ASN:ND2	100.40	0.72
1:BG:15:PRO:HG3	3:EC:157:ASN:ND2	2.03	0.72
1:AR:15:PRO:HG3	3:DR:157:ASN:ND2	2.03	0.72
3:DJ:24:PRO:HB3	4:FJ:30:TYR:O	1.89	0.72
1:AV:112:PRO:HD2	3:DX:220:VAL:CG1	2.18	0.72
1:AU:112:PRO:HD2	3:DW:220:VAL:CG1	2.18	0.72
1:AZ:164:TRP:HE1	1:AZ:187:LEU:HD11	1.52	0.72
1:A1:164:TRP:HE1	1:A1:187:LEU:HD11	1.51	0.72
1:BI:164:TRP:HE1	1:BI:187:LEU:HD11	1.52	0.72
1:AT:164:TRP:HE1	1:AT:187:LEU:HD11	1.52	0.72
1:AJ:119:TRP:HB3	1:AJ:130:ILE:HG23	1.70	0.72
1:A9:119:TRP:HB3	1:A9:130:ILE:HG23	1.71	0.72
1:A3:75:CYS:O	1:A3:222:ARG:HD2	1.88	0.72
3:DA:116:THR:HG23	3:DA:191:LEU:CD2	2.17	0.72
2:CT:212:THR:OG1	3:DH:189:THR:HG23	224.90	0.72
1:AM:15:PRO:HG3	3:DM:157:ASN:ND2	2.03	0.72
1:A0:15:PRO:HG3	3:D1:157:ASN:ND2	2.03	0.72
3:DO:24:PRO:HB3	4:FO:30:TYR:O	1.89	0.72
3:DN:24:PRO:HB3	4:FN:30:TYR:O	1.89	0.72
1:BC:164:TRP:HE1	1:BC:187:LEU:HD11	1.52	0.72
2:C2:209:VAL:N	2:C2:210:PRO:HD3	2.02	0.72
1:AE:119:TRP:HB3	1:AE:130:ILE:HG23	1.70	0.72
1:A8:119:TRP:HB3	1:A8:130:ILE:HG23	1.70	0.72
1:BG:75:CYS:O	1:BG:222:ARG:HD2	1.89	0.72
1:BE:75:CYS:O	1:BE:222:ARG:HD2	1.88	0.72
1:A1:75:CYS:O	1:A1:222:ARG:HD2	1.88	0.72
2:C2:212:THR:OG1	3:DH:189:THR:HG23	257.05	0.72
3:D5:116:THR:HG23	3:D5:191:LEU:CD2	2.18	0.72
3:DY:116:THR:HG23	3:DY:191:LEU:CD2	2.18	0.72
2:C0:212:THR:OG1	3:DQ:189:THR:HG23	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:212:THR:OG1	3:DE:189:THR:HG23	1.88	0.72
1:AA:15:PRO:HG3	3:DC:157:ASN:ND2	100.40	0.72
1:AE:15:PRO:HG3	3:DE:157:ASN:ND2	2.03	0.72
1:AE:15:PRO:HG3	3:DG:157:ASN:ND2	92.18	0.72
1:AT:15:PRO:HG3	3:DU:157:ASN:ND2	2.03	0.72
1:A1:15:PRO:HG3	3:D2:157:ASN:ND2	2.03	0.72
3:DR:24:PRO:HB3	4:FR:30:TYR:O	1.89	0.72
3:DY:24:PRO:HB3	4:FY:30:TYR:O	1.89	0.72
3:D9:24:PRO:HB3	4:F9:30:TYR:O	1.89	0.72
1:AL:112:PRO:HD2	3:DJ:220:VAL:CG1	264.54	0.72
1:AH:112:PRO:HD2	3:DK:220:VAL:CG1	265.17	0.72
3:D7:24:PRO:HB3	4:F7:30:TYR:O	1.89	0.72
1:A1:119:TRP:HB3	1:A1:130:ILE:HG23	1.70	0.72
1:AS:119:TRP:HB3	1:AS:130:ILE:HG23	1.71	0.72
1:AL:75:CYS:O	1:AL:222:ARG:HD2	1.88	0.72
1:A7:75:CYS:O	1:A7:222:ARG:HD2	1.88	0.72
1:A2:75:CYS:O	1:A2:222:ARG:HD2	1.88	0.72
1:A0:75:CYS:O	1:A0:222:ARG:HD2	1.88	0.72
2:CF:112:VAL:HG21	2:CF:126:VAL:HG21	1.72	0.72
2:CC:212:THR:OG1	3:DN:189:THR:HG23	160.72	0.72
3:DX:116:THR:HG23	3:DX:191:LEU:CD2	2.18	0.72
2:CV:212:THR:OG1	3:DD:189:THR:HG23	147.76	0.72
3:D0:116:THR:HG23	3:D0:191:LEU:CD2	2.18	0.72
1:BB:15:PRO:HG3	3:DQ:157:ASN:ND2	90.55	0.72
1:A5:15:PRO:HG3	3:D6:157:ASN:ND2	2.03	0.72
1:AJ:106:TRP:HZ3	3:DL:26:TYR:CD1	251.29	0.72
3:DA:24:PRO:HB3	4:FA:30:TYR:O	1.89	0.72
3:DI:24:PRO:HB3	4:FI:30:TYR:O	1.89	0.72
1:AJ:112:PRO:HD2	3:DF:220:VAL:CG1	2.18	0.72
1:A6:119:TRP:HB3	1:A6:130:ILE:HG23	1.71	0.72
1:AK:119:TRP:HB3	1:AK:130:ILE:HG23	1.71	0.72
1:A9:75:CYS:O	1:A9:222:ARG:HD2	1.88	0.72
1:A4:75:CYS:O	1:A4:222:ARG:HD2	1.88	0.72
2:C5:112:VAL:HG21	2:C5:126:VAL:HG21	1.72	0.72
2:CJ:112:VAL:HG21	2:CJ:126:VAL:HG21	1.72	0.72
2:C9:112:VAL:HG21	2:C9:126:VAL:HG21	1.72	0.72
2:CB:112:VAL:HG21	2:CB:126:VAL:HG21	1.72	0.72
2:CK:112:VAL:HG21	2:CK:126:VAL:HG21	1.72	0.72
2:CC:112:VAL:HG21	2:CC:126:VAL:HG21	1.72	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:212:THR:OG1	3:DS:189:THR:HG23	160.72	0.72
2:CZ:212:THR:OG1	3:DQ:189:THR:HG23	85.77	0.72
2:CN:212:THR:CG2	3:DE:188:LEU:HD22	255.42	0.72
2:CE:212:THR:OG1	3:DF:189:THR:HG23	1.88	0.72
3:D6:116:THR:HG23	3:D6:191:LEU:CD2	2.18	0.72
1:BI:15:PRO:HG3	3:EE:157:ASN:ND2	2.03	0.72
1:A3:15:PRO:HG3	3:D4:157:ASN:ND2	2.03	0.72
1:AA:106:TRP:HZ3	3:DC:26:TYR:CD1	51.72	0.72
1:AL:106:TRP:HZ3	3:DN:26:TYR:CD1	51.72	0.72
1:AO:106:TRP:HZ3	3:DS:26:TYR:CD1	98.43	0.72
3:DM:24:PRO:HB3	4:FM:30:TYR:O	1.89	0.72
1:AN:106:TRP:HZ3	3:DN:26:TYR:CD1	2.08	0.72
3:D8:24:PRO:HB3	4:F8:30:TYR:O	1.89	0.72
1:AC:112:PRO:HD2	3:DD:220:VAL:CG1	2.18	0.72
1:AF:112:PRO:HD2	3:DG:220:VAL:CG1	2.18	0.72
1:A1:106:TRP:HZ3	3:D2:26:TYR:CD1	2.08	0.72
1:AY:106:TRP:HZ3	3:DZ:26:TYR:CD1	2.08	0.72
1:AP:112:PRO:HD2	3:DQ:220:VAL:CG1	2.18	0.72
1:AU:164:TRP:HE1	1:AU:187:LEU:HD11	1.52	0.72
1:AW:164:TRP:HE1	1:AW:187:LEU:HD11	1.51	0.72
1:AT:119:TRP:HB3	1:AT:130:ILE:HG23	1.70	0.72
1:AD:119:TRP:HB3	1:AD:130:ILE:HG23	1.70	0.72
1:AI:119:TRP:HB3	1:AI:130:ILE:HG23	1.70	0.72
1:AV:119:TRP:HB3	1:AV:130:ILE:HG23	1.71	0.72
1:AP:75:CYS:O	1:AP:222:ARG:HD2	1.88	0.72
2:CE:112:VAL:HG21	2:CE:126:VAL:HG21	1.72	0.72
2:CZ:112:VAL:HG21	2:CZ:126:VAL:HG21	1.72	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:CM:212:THR:CG2	3:DI:188:LEU:HD22	256.42	0.72
2:CO:212:THR:OG1	3:DP:189:THR:HG23	1.88	0.72
2:CB:212:THR:OG1	3:DF:189:THR:HG23	140.35	0.72
2:CB:212:THR:CG2	3:DT:188:LEU:HD22	256.42	0.72
1:AG:15:PRO:HG3	3:DG:157:ASN:ND2	2.03	0.72
1:A9:106:TRP:HZ3	3:DA:26:TYR:CD1	235.23	0.72
1:BA:106:TRP:HZ3	3:DP:26:TYR:CD1	117.28	0.72
3:DW:24:PRO:HB3	4:FW:30:TYR:O	1.89	0.72
1:AA:112:PRO:HD2	3:DB:220:VAL:CG1	2.18	0.72
1:AI:112:PRO:HD2	3:DJ:220:VAL:CG1	2.18	0.72
3:D1:24:PRO:HB3	4:F1:30:TYR:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:119:TRP:HB3	1:AA:130:ILE:HG23	1.70	0.72
1:AA:75:CYS:O	1:AA:222:ARG:HD2	1.88	0.72
1:BF:75:CYS:O	1:BF:222:ARG:HD2	1.88	0.72
1:A6:223:PRO:HB3	2:C7:154:GLN:HB3	1.69	0.72
2:CO:112:VAL:HG21	2:CO:126:VAL:HG21	1.72	0.72
2:CA:112:VAL:HG21	2:CA:126:VAL:HG21	1.72	0.72
2:C8:212:THR:CG2	3:D9:188:LEU:HD22	2.20	0.72
3:D3:116:THR:HG23	3:D3:191:LEU:CD2	2.17	0.72
3:DW:116:THR:HG23	3:DW:191:LEU:CD2	2.18	0.72
2:CN:212:THR:CG2	3:D2:188:LEU:HD22	2.20	0.72
2:CS:212:THR:OG1	3:DC:189:THR:HG23	258.27	0.72
2:CP:212:THR:CG2	3:D1:188:LEU:HD22	2.20	0.72
1:AA:15:PRO:HG3	3:DA:157:ASN:ND2	2.03	0.72
1:A7:15:PRO:HG3	3:D8:157:ASN:ND2	2.03	0.72
1:AI:106:TRP:HZ3	3:DK:26:TYR:CD1	256.62	0.72
1:AW:106:TRP:HZ3	3:DX:26:TYR:CD1	2.08	0.72
1:AQ:106:TRP:HZ3	3:DQ:26:TYR:CD1	2.08	0.72
1:AD:112:PRO:HD2	3:DE:220:VAL:CG1	2.19	0.72
1:A5:164:TRP:HE1	1:A5:187:LEU:HD11	1.51	0.72
1:AS:164:TRP:HE1	1:AS:187:LEU:HD11	1.52	0.72
1:AX:119:TRP:HB3	1:AX:130:ILE:HG23	1.70	0.72
1:AT:75:CYS:O	1:AT:222:ARG:HD2	1.88	0.72
2:CX:112:VAL:HG21	2:CX:126:VAL:HG21	1.72	0.72
1:AT:106:TRP:HZ3	3:DU:26:TYR:CD1	2.08	0.72
3:DJ:116:THR:HG23	3:DJ:191:LEU:CD2	2.17	0.72
2:CI:212:THR:CG2	3:DJ:188:LEU:HD22	49.39	0.72
2:CK:212:THR:CG2	3:DA:188:LEU:HD22	267.02	0.72
2:CV:212:THR:CG2	3:DD:188:LEU:HD22	143.14	0.72
2:C7:212:THR:OG1	3:DM:189:THR:HG23	151.74	0.72
2:C2:212:THR:CG2	3:DH:188:LEU:HD22	255.28	0.72
2:C5:212:THR:OG1	3:DG:189:THR:HG23	1.88	0.72
2:CD:212:THR:CG2	3:D4:188:LEU:HD22	143.14	0.72
2:CE:212:THR:CG2	3:DC:188:LEU:HD22	146.32	0.72
2:CF:212:THR:CG2	3:D6:188:LEU:HD22	2.20	0.72
1:AB:106:TRP:HZ3	3:DD:26:TYR:CD1	51.72	0.72
1:AO:106:TRP:HZ3	3:DO:26:TYR:CD1	2.08	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
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
1:AQ:75:CYS:O	1:AQ:222:ARG:HD2	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CP:112:VAL:HG21	2:CP:126:VAL:HG21	1.72	0.72
3:D9:106:PHE:CE2	3:D9:208:VAL:HG22	2.25	0.72
2:CI:212:THR:CG2	3:DX:188:LEU:HD22	2.20	0.72
3:DM:117:LYS:HB3	3:DM:119:LYS:CE	2.20	0.72
2:CL:212:THR:CG2	3:D8:188:LEU:HD22	119.26	0.72
2:CL:212:THR:OG1	3:DK:189:THR:HG23	115.53	0.72
2:CL:212:THR:CG2	3:DK:188:LEU:HD22	115.85	0.72
2:CU:212:THR:CG2	3:DG:188:LEU:HD22	238.85	0.72
3:DQ:117:LYS:HB3	3:DQ:119:LYS:CE	2.20	0.72
3:D2:117:LYS:HB3	3:D2:119:LYS:CE	2.20	0.72
2:C3:212:THR:CG2	3:DU:188:LEU:HD22	2.20	0.72
3:DC:117:LYS:HB3	3:DC:119:LYS:CE	2.20	0.72
2:C4:212:THR:CG2	3:EC:188:LEU:HD22	2.20	0.72
1:AG:106:TRP:HZ3	3:DI:26:TYR:CD1	51.72	0.72
1:AM:106:TRP:HZ3	3:DO:26:TYR:CD1	51.72	0.72
1:AG:106:TRP:HZ3	3:DG:26:TYR:CD1	2.08	0.72
1:AP:106:TRP:HZ3	3:DP:26:TYR:CD1	2.08	0.72
1:BC:106:TRP:HZ3	3:DR:26:TYR:CD1	147.09	0.72
1:BG:106:TRP:HZ3	3:EC:26:TYR:CD1	2.08	0.72
1:AK:112:PRO:HD2	3:DL:220:VAL:CG1	2.18	0.72
3:DZ:24:PRO:HB3	4:FZ:30:TYR:O	1.89	0.72
1:AV:164:TRP:HE1	1:AV:187:LEU:HD11	1.52	0.72
1:A5:119:TRP:HB3	1:A5:130:ILE:HG23	1.70	0.72
1:AY:119:TRP:HB3	1:AY:130:ILE:HG23	1.71	0.72
1:AU:119:TRP:HB3	1:AU:130:ILE:HG23	1.71	0.72
1:AR:75:CYS:O	1:AR:222:ARG:HD2	1.88	0.72
1:AY:75:CYS:O	1:AY:222:ARG:HD2	1.88	0.72
3:DE:106:PHE:CE2	3:DE:208:VAL:HG22	2.25	0.72
2:C3:112:VAL:HG21	2:C3:126:VAL:HG21	1.72	0.72
3:DQ:106:PHE:CE2	3:DQ:208:VAL:HG22	2.25	0.72
3:DB:106:PHE:CE2	3:DB:208:VAL:HG22	2.25	0.72
2:C1:112:VAL:HG21	2:C1:126:VAL:HG21	1.72	0.72
3:D8:117:LYS:HB3	3:D8:119:LYS:CE	2.20	0.72
2:CU:212:THR:CG2	3:D5:188:LEU:HD22	255.28	0.72
3:D4:117:LYS:HB3	3:D4:119:LYS:CE	2.20	0.72
2:CS:212:THR:CG2	3:EA:188:LEU:HD22	156.86	0.72
3:DF:117:LYS:HB3	3:DF:119:LYS:CE	2.20	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	199.19	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	120.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:164:TRP:HE1	1:A3:187:LEU:HD11	1.52	0.72
1:BF:106:TRP:HZ3	3:EB:26:TYR:CD1	2.08	0.72
3:DL:106:PHE:CE2	3:DL:208:VAL:HG22	2.25	0.72
3:DX:106:PHE:CE2	3:DX:208:VAL:HG22	2.25	0.72
2:CH:212:THR:CG2	3:DN:188:LEU:HD22	256.42	0.71
2:CJ:212:THR:CG2	3:DA:188:LEU:HD22	2.20	0.71
3:DD:117:LYS:HB3	3:DD:119:LYS:CE	2.20	0.71
2:CT:212:THR:CG2	3:DK:188:LEU:HD22	2.20	0.71
2:CX:212:THR:CG2	3:DR:188:LEU:HD22	149.71	0.71
2:CG:212:THR:CG2	3:D3:188:LEU:HD22	255.28	0.71
2:CY:212:THR:CG2	3:DZ:188:LEU:HD22	2.20	0.71
1:AS:112:PRO:HD2	3:DP:220:VAL:CG1	2.18	0.71
1:A2:119:TRP:HB3	1:A2:130:ILE:HG23	1.71	0.71
1:BD:75:CYS:O	1:BD:222:ARG:HD2	1.89	0.71
3:DC:106:PHE:CE2	3:DC:208:VAL:HG22	2.25	0.71
3:DS:106:PHE:CE2	3:DS:208:VAL:HG22	2.25	0.71
3:DN:106:PHE:CE2	3:DN:208:VAL:HG22	2.25	0.71
1:BE:106:TRP:HZ3	3:EA:26:TYR:CD1	2.08	0.71
3:D2:106:PHE:CE2	3:D2:208:VAL:HG22	2.25	0.71
2:CN:112:VAL:HG21	2:CN:126:VAL:HG21	1.72	0.71
2:C7:112:VAL:HG21	2:C7:126:VAL:HG21	1.72	0.71
2:CH:112:VAL:HG21	2:CH:126:VAL:HG21	1.72	0.71
3:D4:106:PHE:CE2	3:D4:208:VAL:HG22	2.25	0.71
2:CC:212:THR:CG2	3:ED:188:LEU:HD22	240.14	0.71
2:CJ:212:THR:CG2	3:DM:188:LEU:HD22	231.74	0.71
2:CR:212:THR:CG2	3:EE:188:LEU:HD22	2.20	0.71
2:CT:212:THR:CG2	3:DH:188:LEU:HD22	224.31	0.71
3:DH:117:LYS:HB3	3:DH:119:LYS:CE	2.20	0.71
2:CQ:212:THR:CG2	3:DP:188:LEU:HD22	115.85	0.71
2:CX:212:THR:CG2	3:DO:188:LEU:HD22	207.62	0.71
2:CA:212:THR:CG2	3:DL:188:LEU:HD22	255.28	0.71
2:CB:212:THR:OG1	3:DT:189:THR:HG23	258.27	0.71
3:DT:117:LYS:HB3	3:DT:119:LYS:CE	2.20	0.71
2:CP:212:THR:CG2	3:D0:188:LEU:HD22	88.49	0.71
1:AB:106:TRP:HZ3	3:DB:26:TYR:CD1	2.08	0.71
1:AC:106:TRP:HZ3	3:DE:26:TYR:CD1	51.72	0.71
1:BB:106:TRP:HZ3	3:DQ:26:TYR:CD1	135.05	0.71
1:AJ:106:TRP:HZ3	3:DJ:26:TYR:CD1	2.08	0.71
1:AU:106:TRP:HZ3	3:DV:26:TYR:CD1	2.08	0.71
1:AP:119:TRP:HB3	1:AP:130:ILE:HG23	1.70	0.71
1:BC:75:CYS:O	1:BC:222:ARG:HD2	1.88	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:75:CYS:O	1:BA:222:ARG:HD2	1.88	0.71
3:D3:106:PHE:CE2	3:D3:208:VAL:HG22	2.25	0.71
2:CY:112:VAL:HG21	2:CY:126:VAL:HG21	1.72	0.71
3:DO:106:PHE:CE2	3:DO:208:VAL:HG22	2.25	0.71
1:BI:106:TRP:HZ3	3:EE:26:TYR:CD1	2.08	0.71
3:DK:106:PHE:CE2	3:DK:208:VAL:HG22	2.25	0.71
3:EA:106:PHE:CE2	3:EA:208:VAL:HG22	2.25	0.71
2:CH:212:THR:CG2	3:DS:188:LEU:HD22	158.34	0.71
2:CW:212:THR:CG2	3:DS:188:LEU:HD22	240.14	0.71
3:DX:117:LYS:HB3	3:DX:119:LYS:CE	2.20	0.71
2:CM:212:THR:CG2	3:DD:188:LEU:HD22	158.34	0.71
3:EB:116:THR:HG23	3:EB:191:LEU:CD2	2.17	0.71
2:CB:212:THR:CG2	3:DF:188:LEU:HD22	138.12	0.71
1:AH:106:TRP:HZ3	3:DJ:26:TYR:CD1	51.72	0.71
1:AI:106:TRP:HZ3	3:DI:26:TYR:CD1	2.08	0.71
1:AA:106:TRP:HZ3	3:DA:26:TYR:CD1	2.08	0.71
1:AM:106:TRP:HZ3	3:DM:26:TYR:CD1	2.08	0.71
3:DR:19:PRO:HG3	4:FR:17:ASN:HD21	1.56	0.71
1:A8:112:PRO:HD2	3:DA:220:VAL:CG1	232.93	0.71
1:A4:106:TRP:HZ3	3:D5:26:TYR:CD1	2.08	0.71
1:BH:112:PRO:HD2	3:EE:220:VAL:CG1	2.18	0.71
3:D8:19:PRO:HG3	4:F8:17:ASN:HD21	1.56	0.71
1:AM:119:TRP:HB3	1:AM:130:ILE:HG23	1.70	0.71
1:A4:119:TRP:HB3	1:A4:130:ILE:HG23	1.70	0.71
1:AS:75:CYS:O	1:AS:222:ARG:HD2	1.88	0.71
3:D1:106:PHE:CE2	3:D1:208:VAL:HG22	2.25	0.71
2:CW:112:VAL:HG21	2:CW:126:VAL:HG21	1.72	0.71
3:DI:106:PHE:CE2	3:DI:208:VAL:HG22	2.25	0.71
2:CC:212:THR:CG2	3:DN:188:LEU:HD22	158.34	0.71
2:CV:212:THR:CG2	3:DB:188:LEU:HD22	2.20	0.71
3:DI:117:LYS:HB3	3:DI:119:LYS:CE	2.20	0.71
3:DG:117:LYS:HB3	3:DG:119:LYS:CE	2.20	0.71
2:CO:212:THR:CG2	3:DP:188:LEU:HD22	2.20	0.71
2:C9:212:THR:CG2	3:DL:188:LEU:HD22	86.57	0.71
3:DL:117:LYS:HB3	3:DL:119:LYS:CE	2.20	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:AD:106:TRP:HZ3	3:DF:26:TYR:CD1	120.03	0.71
1:AF:106:TRP:HZ3	3:DH:26:TYR:CD1	51.72	0.71
3:DA:19:PRO:HG3	4:FA:17:ASN:HD21	1.56	0.71
3:DS:19:PRO:HG3	4:FS:17:ASN:HD21	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:19:PRO:HG3	4:FV:17:ASN:HD21	1.56	0.71
1:A5:106:TRP:HZ3	3:D6:26:TYR:CD1	2.08	0.71
1:BG:112:PRO:HD2	3:ED:220:VAL:CG1	2.18	0.71
2:C8:209:VAL:N	2:C8:210:PRO:HD3	2.02	0.71
1:BG:119:TRP:HB3	1:BG:130:ILE:HG23	1.71	0.71
1:A7:119:TRP:HB3	1:A7:130:ILE:HG23	1.71	0.71
1:BA:119:TRP:HB3	1:BA:130:ILE:HG23	1.71	0.71
3:DD:106:PHE:CE2	3:DD:208:VAL:HG22	2.25	0.71
2:C8:112:VAL:HG21	2:C8:126:VAL:HG21	1.72	0.71
3:DH:106:PHE:CE2	3:DH:208:VAL:HG22	2.25	0.71
3:D8:106:PHE:CE2	3:D8:208:VAL:HG22	2.25	0.71
3:DU:106:PHE:CE2	3:DU:208:VAL:HG22	2.25	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
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
3:D3:117:LYS:HB3	3:D3:119:LYS:CE	2.20	0.71
2:CG:212:THR:CG2	3:EB:188:LEU:HD22	2.20	0.71
2:CS:212:THR:CG2	3:DC:188:LEU:HD22	256.43	0.71
2:CE:212:THR:CG2	3:DF:188:LEU:HD22	2.20	0.71
1:AK:101:PHE:HD2	1:AK:143:VAL:HG11	1.56	0.71
3:DH:19:PRO:HG3	4:FH:17:ASN:HD21	1.56	0.71
3:D9:19:PRO:HG3	4:F9:17:ASN:HD21	1.56	0.71
3:DI:19:PRO:HG3	4:FI:17:ASN:HD21	1.56	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	217.87	0.71
1:AC:112:PRO:HD2	3:DF:220:VAL:CG1	131.55	0.71
3:D2:19:PRO:HG3	4:F2:17:ASN:HD21	1.56	0.71
3:DP:106:PHE:CE2	3:DP:208:VAL:HG22	2.25	0.71
2:CI:112:VAL:HG21	2:CI:126:VAL:HG21	1.72	0.71
3:DO:117:LYS:HB3	3:DO:119:LYS:CE	2.20	0.71
3:DP:117:LYS:HB3	3:DP:119:LYS:CE	2.20	0.71
1:AS:101:PHE:HD2	1:AS:143:VAL:HG11	1.56	0.71
1:AD:106:TRP:HZ3	3:DD:26:TYR:CD1	2.08	0.71
3:DT:24:PRO:HB3	4:FT:30:TYR:O	1.89	0.71
1:AX:106:TRP:HZ3	3:DY:26:TYR:CD1	2.08	0.71
3:DP:19:PRO:HG3	4:FP:17:ASN:HD21	1.56	0.71
1:AU:101:PHE:HD2	1:AU:143:VAL:HG11	1.56	0.71
3:D7:19:PRO:HG3	4:F7:17:ASN:HD21	1.56	0.71
1:AN:112:PRO:HD2	3:DC:220:VAL:CG1	222.39	0.71
1:A0:101:PHE:HD2	1:A0:143:VAL:HG11	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:19:PRO:HG3	4:FZ:17:ASN:HD21	1.56	0.71
1:AQ:119:TRP:HB3	1:AQ:130:ILE:HG23	1.71	0.71
3:DW:106:PHE:CE2	3:DW:208:VAL:HG22	2.25	0.71
3:DM:106:PHE:CE2	3:DM:208:VAL:HG22	2.25	0.71
2:C6:112:VAL:HG21	2:C6:126:VAL:HG21	1.72	0.71
3:DR:106:PHE:CE2	3:DR:208:VAL:HG22	2.25	0.71
3:DA:106:PHE:CE2	3:DA:208:VAL:HG22	2.25	0.71
3:D9:117:LYS:HB3	3:D9:119:LYS:CE	2.20	0.71
2:CW:212:THR:CG2	3:DJ:188:LEU:HD22	2.20	0.71
3:DA:116:THR:CG2	3:DA:191:LEU:HD21	2.21	0.71
3:EE:116:THR:HG23	3:EE:191:LEU:CD2	2.17	0.71
3:DK:117:LYS:HB3	3:DK:119:LYS:CE	2.20	0.71
2:C1:212:THR:CG2	3:DO:188:LEU:HD22	2.20	0.71
2:CO:212:THR:CG2	3:DR:188:LEU:HD22	143.14	0.71
1:AE:106:TRP:HZ3	3:DG:26:TYR:CD1	134.83	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:AJ:101:PHE:HD2	1:AJ:143:VAL:HG11	1.56	0.71
1:BI:101:PHE:HD2	1:BI:143:VAL:HG11	1.56	0.71
1:A7:106:TRP:HZ3	3:D8:26:TYR:CD1	2.08	0.71
1:BE:112:PRO:HD2	3:EB:220:VAL:CG1	2.18	0.71
1:BI:112:PRO:HD2	3:EA:220:VAL:CG1	2.18	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
3:DF:106:PHE:CE2	3:DF:208:VAL:HG22	2.25	0.71
3:D5:106:PHE:CE2	3:D5:208:VAL:HG22	2.25	0.71
3:DJ:106:PHE:CE2	3:DJ:208:VAL:HG22	2.25	0.71
3:D7:106:PHE:CE2	3:D7:208:VAL:HG22	2.25	0.71
3:DS:117:LYS:HB3	3:DS:119:LYS:CE	2.20	0.71
3:DE:117:LYS:HB3	3:DE:119:LYS:CE	2.20	0.71
3:DU:117:LYS:HB3	3:DU:119:LYS:CE	2.20	0.71
1:AB:101:PHE:HD2	1:AB:143:VAL:HG11	1.56	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
3:ED:19:PRO:HG3	4:FW:17:ASN:HD21	216.24	0.71
3:DM:19:PRO:HG3	4:FM:17:ASN:HD21	1.56	0.71
1:A6:106:TRP:HZ3	3:D7:26:TYR:CD1	2.08	0.71
1:A3:106:TRP:HZ3	3:D4:26:TYR:CD1	2.08	0.71
2:CG:13:ARG:HG3	2:CG:29:SER:O	1.91	0.71
3:DG:106:PHE:CE2	3:DG:208:VAL:HG22	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:116:THR:CG2	3:ED:191:LEU:HD21	2.21	0.71
2:CK:212:THR:CG2	3:DB:188:LEU:HD22	255.28	0.71
3:DG:116:THR:CG2	3:DG:191:LEU:HD21	2.21	0.71
2:CZ:212:THR:CG2	3:DQ:188:LEU:HD22	86.57	0.71
3:DZ:116:THR:HG23	3:DZ:191:LEU:CD2	2.18	0.71
1:A9:101:PHE:HD2	1:A9:143: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:AV:101:PHE:HD2	1:AV:143:VAL:HG11	1.56	0.71
1:BH:106:TRP:HZ3	3:ED:26:TYR:CD1	2.08	0.71
3:DE:19:PRO:HG3	4:FE:17:ASN:HD21	1.56	0.71
1:AE:106:TRP:HZ3	3:DE:26:TYR:CD1	2.08	0.71
3:DG:19:PRO:HG3	4:FG:17:ASN:HD21	1.56	0.71
1:A7:101:PHE:HD2	1:A7:143:VAL:HG11	1.56	0.71
3:D5:19:PRO:HG3	4:F5:17:ASN:HD21	1.56	0.71
1:AR:112:PRO:HD2	3:DS:220:VAL:CG1	2.18	0.71
1:A8:164:TRP:HE1	1:A8:187:LEU:HD11	1.52	0.71
1:AF:119:TRP:HB3	1:AF:130:ILE:HG23	1.70	0.71
2:C4:13:ARG:HG3	2:C4:29:SER:O	1.91	0.71
2:CX:13:ARG:HG3	2:CX:29:SER:O	1.91	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
1:A8:106:TRP:HZ3	3:D9:26:TYR:CD1	2.08	0.71
3:EE:106:PHE:CE2	3:EE:208:VAL:HG22	2.25	0.71
3:DN:117:LYS:HB3	3:DN:119:LYS:CE	2.20	0.71
2:CR:212:THR:CG2	3:DI:188:LEU:HD22	158.34	0.71
3:DD:116:THR:CG2	3:DD:191:LEU:HD21	2.21	0.71
2:CQ:212:THR:CG2	3:DY:188:LEU:HD22	119.26	0.71
3:DO:116:THR:CG2	3:DO:191:LEU:HD21	2.21	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: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:BF:101:PHE:HD2	1:BF:143:VAL:HG11	1.56	0.71
3:EB:19:PRO:HG3	4:FU:17:ASN:HD21	211.78	0.71
3:D6:19:PRO:HG3	4:F6:17:ASN:HD21	1.56	0.71
1:AZ:106:TRP:HZ3	3:D0:26:TYR:CD1	2.08	0.71
3:D0:19:PRO:HG3	4:F0:17:ASN:HD21	1.56	0.71
1:A2:164:TRP:HE1	1:A2:187:LEU:HD11	1.52	0.71
2:C9:13:ARG:HG3	2:C9:29:SER:O	1.91	0.71
2:CC:13:ARG:HG3	2:CC:29:SER:O	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:106:PHE:CE2	3:DZ:208:VAL:HG22	2.25	0.71
3:D0:106:PHE:CE2	3:D0:208:VAL:HG22	2.25	0.71
3:DT:106:PHE:CE2	3:DT:208:VAL:HG22	2.25	0.71
3:D5:117:LYS:HB3	3:D5:119:LYS:CE	2.20	0.70
2:CF:212:THR:CG2	3:DV:188:LEU:HD22	189.56	0.70
1:AA:101:PHE:HD2	1:AA:143:VAL:HG11	1.56	0.70
1:A0:112:PRO:HD2	3:D2:220:VAL:CG1	2.18	0.70
1:BG:164:TRP:HE1	1:BG:187:LEU:HD11	1.52	0.70
2:CO:13:ARG:HG3	2:CO:29:SER:O	1.91	0.70
2:CN:13:ARG:HG3	2:CN:29:SER:O	1.91	0.70
2:CW:13:ARG:HG3	2:CW:29:SER:O	1.91	0.70
2:CL:13:ARG:HG3	2:CL:29:SER:O	1.91	0.70
2:CV:13:ARG:HG3	2:CV:29:SER:O	1.91	0.70
2:C3:13:ARG:HG3	2:C3:29:SER:O	1.91	0.70
3:DV:106:PHE:CE2	3:DV:208:VAL:HG22	2.25	0.70
2:CS:54:LEU:HD12	2:CS:220:ALA:HB1	1.73	0.70
2:CB:54:LEU:HD12	2:CB:220:ALA:HB1	1.74	0.70
3:DJ:117:LYS:HB3	3:DJ:119:LYS:CE	2.20	0.70
3:EB:116:THR:CG2	3:EB:191:LEU:HD21	2.21	0.70
1:AL:106:TRP:HZ3	3:DL:26:TYR:CD1	2.08	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
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:13:ARG:HG3	2:CQ:29:SER:O	1.91	0.70
2:CA:13:ARG:HG3	2:CA:29:SER:O	1.91	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:112:VAL:HG21	2:CQ:126:VAL:HG21	1.72	0.70
2:C2:54:LEU:HD12	2:C2:220:ALA:HB1	1.73	0.70
2:CW:54:LEU:HD12	2:CW:220:ALA:HB1	1.73	0.70
3:DK:116:THR:CG2	3:DK:191:LEU:HD21	2.21	0.70
3:DC:116:THR:CG2	3:DC:191:LEU:HD21	2.21	0.70
1:AX:101:PHE:HD2	1:AX:143:VAL:HG11	1.56	0.70
3:DB:19:PRO:HG3	4:FB:17:ASN:HD21	1.56	0.70
3:DK:19:PRO:HG3	4:FK:17:ASN:HD21	1.56	0.70
1:AK:106:TRP:HZ3	3:DM:26:TYR:CD1	51.72	0.70
3:DN:19:PRO:HG3	4:FN:17:ASN:HD21	1.56	0.70
3:DW:19:PRO:HG3	4:FW:17:ASN:HD21	1.56	0.70
1:A1:101:PHE:HD2	1:A1:143:VAL:HG11	1.56	0.70
3:D3:19:PRO:HG3	4:F3:17:ASN:HD21	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:106:TRP:HZ3	3:D3:26: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: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
3:EC:106:PHE:CE2	3:EC:208:VAL:HG22	2.25	0.70
2:CI:54:LEU:HD12	2:CI:220:ALA:HB1	1.74	0.70
3:D6:106:PHE:CE2	3:D6:208:VAL:HG22	2.25	0.70
2:CD:112:VAL:HG21	2:CD:126:VAL:HG21	1.72	0.70
3:DY:116:THR:CG2	3:DY:191:LEU:HD21	2.21	0.70
3:EB:117:LYS:HB3	3:EB:119:LYS:CE	2.20	0.70
2:C0:212:THR:CG2	3:DQ:188:LEU:HD22	2.20	0.70
2:C6:212:THR:CG2	3:DE:188:LEU:HD22	2.20	0.70
3:DZ:117:LYS:HB3	3:DZ:119:LYS:CE	2.20	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	144.18	0.70
3:DD:19:PRO:HG3	4:FD:17:ASN:HD21	1.56	0.70
1:AG:112:PRO:HD2	3:DH:220:VAL:CG1	2.18	0.70
1:A0:106:TRP:HZ3	3:D1:26:TYR:CD1	2.08	0.70
2:CP:13:ARG:HG3	2:CP:29:SER:O	1.91	0.70
2:C5:13:ARG:HG3	2:C5:29:SER:O	1.91	0.70
2:CS:13:ARG:HG3	2:CS:29:SER:O	1.91	0.70
2:C4:54:LEU:HD12	2:C4:220:ALA:HB1	1.74	0.70
3:ED:106:PHE:CE2	3:ED:208:VAL:HG22	2.25	0.70
2:C0:112:VAL:HG21	2:C0:126:VAL:HG21	1.72	0.70
2:C8:54:LEU:HD12	2:C8:220:ALA:HB1	1.74	0.70
2:C2:112:VAL:HG21	2:C2:126:VAL:HG21	1.72	0.70
2:C7:212:THR:CG2	3:DM:188:LEU:HD22	149.71	0.70
3:DI:116:THR:CG2	3:DI:191:LEU:HD21	2.21	0.70
3:D5:116:THR:CG2	3:D5:191:LEU:HD21	2.21	0.70
1:AN:101:PHE:HD2	1:AN:143:VAL:HG11	1.56	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:AH:106:TRP:HZ3	3:DH:26:TYR:CD1	2.08	0.70
1:AK:112:PRO:HD2	3:DN:220:VAL:CG1	67.26	0.70
2:CD:13:ARG:HG3	2:CD:29:SER:O	1.91	0.70
2:CB:13:ARG:HG3	2:CB:29:SER:O	1.91	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:C4:112:VAL:HG21	2:C4:126:VAL:HG21	1.72	0.70
1:BE:239:PHE:CD1	3:EA:170:TYR:HD2	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:239:PHE:CD1	3:DC:170:TYR:HD2	82.15	0.70
1:BC:239:PHE:CD1	3:DR:170:TYR:HD2	150.01	0.70
2:CH:54:LEU:HD12	2:CH:220:ALA:HB1	1.74	0.70
2:CG:112:VAL:HG21	2:CG:126:VAL:HG21	1.72	0.70
2:CM:54:LEU:HD12	2:CM:220:ALA:HB1	1.74	0.70
3:DR:117:LYS:HB3	3:DR:119:LYS:CE	2.20	0.70
3:D0:117:LYS:HB3	3:D0:119:LYS:CE	2.20	0.70
1:AE:101:PHE:HD2	1:AE:143:VAL:HG11	1.56	0.70
1:AP:101:PHE:HD2	1:AP:143:VAL:HG11	1.56	0.70
3:DJ:19:PRO:HG3	4:FJ:17:ASN:HD21	1.56	0.70
3:DF:19:PRO:HG3	4:FF:17:ASN:HD21	1.56	0.70
1:AD:186:TRP:CZ2	1:AD:188:PRO:HA	2.27	0.70
1:AF:186:TRP:CZ2	1:AF:188:PRO:HA	2.27	0.70
1:BA:186:TRP:CZ2	1:BA:188:PRO:HA	2.27	0.70
2:CT:119:ALA:O	2:CT:204:GLY:HA3	1.92	0.70
2:C2:13:ARG:HG3	2:C2:29:SER:O	1.91	0.70
1:AG:239:PHE:CD1	3:DG:170:TYR:HD2	2.10	0.70
1:AI:239:PHE:CD1	3:DK:170:TYR:HD2	270.47	0.70
1:A4:239:PHE:CD1	3:D5:170:TYR:HD2	2.10	0.70
2:CX:54:LEU:HD12	2:CX:220:ALA:HB1	1.73	0.70
3:EB:106:PHE:CE2	3:EB:208:VAL:HG22	2.25	0.70
1:BF:239:PHE:CD1	3:EB:170:TYR:HD2	2.10	0.70
1:AH:239:PHE:CD1	3:DJ:170:TYR:HD2	82.15	0.70
1:AJ:239:PHE:CD1	3:DL:170:TYR:HD2	277.51	0.70
2:C9:54:LEU:HD12	2:C9:220:ALA:HB1	1.74	0.70
1:A2:239:PHE:CD1	3:D3:170:TYR:HD2	2.10	0.70
2:CV:112:VAL:HG21	2:CV:126:VAL:HG21	1.72	0.70
2:CA:212:THR:CG2	3:DW:188:LEU:HD22	2.20	0.70
3:D6:117:LYS:HB3	3:D6:119:LYS:CE	2.20	0.70
1:AN:82:LEU:HD11	1:AN:211:TYR:CD2	2.26	0.70
3:DQ:19:PRO:HG3	4:FQ:17:ASN:HD21	1.56	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	195.67	0.70
1:AI:186:TRP:CZ2	1:AI:188:PRO:HA	2.27	0.70
1:AL:186:TRP:CZ2	1:AL:188:PRO:HA	2.27	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:BG:186:TRP:CZ2	1:BG:188:PRO:HA	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:13:ARG:HG3	2:CT:29:SER:O	1.91	0.70
2:CB:119:ALA:O	2:CB:204:GLY:HA3	1.92	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:CY:13:ARG:HG3	2:CY:29:SER:O	1.91	0.70
1:AL:239:PHE:CD1	3:DN:170:TYR:HD2	82.15	0.70
2:CU:54:LEU:HD12	2:CU:220:ALA:HB1	1.74	0.70
2:CG:54:LEU:HD12	2:CG:220:ALA:HB1	1.74	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
3:DC:19:PRO:HG3	4:FC:17:ASN:HD21	1.56	0.70
3:EE:42:ASN:ND2	3:EE:44:ILE:H	1.90	0.70
3:DH:42:ASN:ND2	3:DH:44:ILE:H	1.90	0.70
3:ED:42:ASN:ND2	3:ED:44:ILE:H	1.90	0.70
1:A3:101:PHE:HD2	1:A3:143:VAL:HG11	1.56	0.70
1:AA:112:PRO:HD2	3:DD:220:VAL:CG1	67.26	0.70
1:AI:112:PRO:HD2	3:DL:220:VAL:CG1	269.83	0.70
1:AE:112:PRO:HD2	3:DA:220:VAL:CG1	2.18	0.70
1:A6:186:TRP:CZ2	1:A6:188:PRO:HA	2.27	0.70
1:AN:186:TRP:CZ2	1:AN:188:PRO:HA	2.27	0.70
2:CH:208:THR:OG1	2:CH:210:PRO:HD3	1.92	0.70
2:CF:119:ALA:O	2:CF:204:GLY:HA3	1.92	0.70
2:CY:119:ALA:O	2:CY:204:GLY:HA3	1.92	0.70
2:C0:13:ARG:HG3	2:C0:29:SER:O	1.91	0.70
1:AE:239:PHE:CD1	3:DG:170:TYR:HD2	118.84	0.70
1:AJ:239:PHE:CD1	3:DJ:170:TYR:HD2	2.10	0.70
1:AH:239:PHE:CD1	3:DH:170:TYR:HD2	2.10	0.70
1:AY:239:PHE:CD1	3:DZ:170:TYR:HD2	2.10	0.70
1:BD:104:VAL:HG22	1:BD:197:LEU:CD2	2.22	0.70
3:DY:106:PHE:CE2	3:DY:208:VAL:HG22	2.25	0.70
1:AP:239:PHE:CD1	3:DP:170:TYR:HD2	2.10	0.70
2:CE:54:LEU:HD12	2:CE:220:ALA:HB1	1.74	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:AJ:88:PHE:HA	1:AJ:207:CYS:HA	1.74	0.70
1:AJ:82:LEU:HD11	1:AJ:211:TYR:CD2	2.26	0.70
1:AN:106:TRP:HZ3	3:DB:26:TYR:CD1	210.71	0.70
1:BD:101:PHE:HD2	1:BD:143:VAL:HG11	1.56	0.70
1:BH:101:PHE:HD2	1:BH:143:VAL:HG11	1.56	0.70
1:AJ:186:TRP:CZ2	1:AJ:188:PRO:HA	2.27	0.70
1:AK:186:TRP:CZ2	1:AK:188:PRO:HA	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:186:TRP:CZ2	1:AM:188:PRO:HA	2.27	0.70
1:A1:186:TRP:CZ2	1:A1:188:PRO:HA	2.27	0.70
2:CU:208:THR:OG1	2:CU:210:PRO:HD3	1.92	0.70
2:C0:208:THR:OG1	2:C0:210:PRO:HD3	1.92	0.70
2:CJ:208:THR:OG1	2:CJ:210:PRO:HD3	1.92	0.70
2:CM:119:ALA:O	2:CM:204:GLY:HA3	1.92	0.70
2:CE:119:ALA:O	2:CE:204:GLY:HA3	1.92	0.70
2:CK:26:SER:O	2:CK:28:GLY:N	2.25	0.70
2:CZ:13:ARG:HG3	2:CZ:29:SER:O	1.91	0.70
1:BI:104:VAL:HG22	1:BI:197:LEU:CD2	2.22	0.70
2:C3:54:LEU:HD12	2:C3:220:ALA:HB1	1.73	0.70
2:CJ:54:LEU:HD12	2:CJ:220:ALA:HB1	1.74	0.70
2:CA:54:LEU:HD12	2:CA:220:ALA:HB1	1.73	0.70
1:BF:104:VAL:HG22	1:BF:197:LEU:CD2	2.22	0.70
3:DJ:116:THR:CG2	3:DJ:191:LEU:HD21	2.21	0.70
3:DL:116:THR:CG2	3:DL:191:LEU:HD21	2.21	0.70
1:AW:101:PHE:HD2	1:AW:143:VAL:HG11	1.56	0.70
3:DT:19:PRO:HG3	4:FT:17:ASN:HD21	1.56	0.70
3:DC:42:ASN:ND2	3:DC:44:ILE:H	1.90	0.70
3:DG:42:ASN:ND2	3:DG:44:ILE:H	1.90	0.70
3:DA:42:ASN:ND2	3:DA:44:ILE:H	1.90	0.70
3:DU:42:ASN:ND2	3:DU:44:ILE:H	1.90	0.70
3:D1:19:PRO:HG3	4:F1:17:ASN:HD21	1.56	0.70
1:BD:186:TRP:CZ2	1:BD:188:PRO:HA	2.27	0.70
1:AA:186:TRP:CZ2	1:AA:188:PRO:HA	2.27	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:AZ:112:PRO:HD2	3:D1:220:VAL:CG1	2.18	0.70
2:CZ:208:THR:OG1	2:CZ:210:PRO:HD3	1.92	0.70
1:AV:186:TRP:CZ2	1:AV:188:PRO:HA	2.27	0.70
2:CB:208:THR:OG1	2:CB:210:PRO:HD3	1.92	0.70
2:CG:208:THR:OG1	2:CG:210:PRO:HD3	1.92	0.70
2:C1:208:THR:OG1	2:C1:210:PRO:HD3	1.92	0.70
2:CV:208:THR:OG1	2:CV:210:PRO:HD3	1.92	0.70
2:CD:26:SER:O	2:CD:28:GLY:N	2.25	0.70
2:CN:119:ALA:O	2:CN:204:GLY:HA3	1.92	0.70
2:CS:119:ALA:O	2:CS:204:GLY:HA3	1.92	0.70
2:CI:26:SER:O	2:CI:28:GLY:N	2.25	0.70
1:AF:76:THR:HB	1:AF:220:CYS:HB2	1.74	0.70
2:CV:26:SER:O	2:CV:28:GLY:N	2.25	0.70
2:CF:26:SER:O	2:CF:28:GLY:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:26:SER:O	2:CR:28:GLY:N	2.25	0.70
1:BI:76:THR:HB	1:BI:220:CYS:HB2	1.74	0.70
1:AC:239:PHE:CD1	3:DC:170:TYR:HD2	2.10	0.70
1:AH:104:VAL:HG22	1:AH:197:LEU:CD2	2.22	0.70
1:A3:239:PHE:CD1	3:D4:170:TYR:HD2	2.10	0.70
2:CD:54:LEU:HD12	2:CD:220:ALA:HB1	1.74	0.70
1:AB:104:VAL:HG22	1:AB:197:LEU:CD2	2.22	0.70
2:C1:54:LEU:HD12	2:C1:220:ALA:HB1	1.73	0.70
1:AC:104:VAL:HG22	1:AC:197:LEU:CD2	2.22	0.70
1:AK:104:VAL:HG22	1:AK:197:LEU:CD2	2.22	0.70
1:A6:239:PHE:CD1	3:D7:170:TYR:HD2	2.10	0.70
1:AE:104:VAL:HG22	1:AE:197:LEU:CD2	2.22	0.70
1:AO:104:VAL:HG22	1:AO:197:LEU:CD2	2.22	0.70
1:AZ:104:VAL:HG22	1:AZ:197:LEU:CD2	2.22	0.70
1:BG:104:VAL:HG22	1:BG:197:LEU:CD2	2.22	0.70
3:D7:117:LYS:HB3	3:D7:119: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:AA:88:PHE:HA	1:AA:207:CYS:HA	1.74	0.69
1:AC:88:PHE:HA	1:AC:207:CYS:HA	1.74	0.69
1:AG:101:PHE:HD2	1:AG:143:VAL:HG11	1.56	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:BG:88:PHE:HA	1:BG:207:CYS:HA	1.74	0.69
3:D4:19:PRO:HG3	4:F4:17:ASN:HD21	1.56	0.69
1:AY:101:PHE:HD2	1:AY:143:VAL:HG11	1.56	0.69
1:AZ:186:TRP:CZ2	1:AZ:188:PRO:HA	2.27	0.69
1:A5:186:TRP:CZ2	1:A5:188:PRO:HA	2.27	0.69
2:CI:208:THR:OG1	2:CI:210:PRO:HD3	1.92	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:CJ:119:ALA:O	2:CJ:204:GLY:HA3	1.92	0.69
2:CH:26:SER:O	2:CH:28:GLY:N	2.25	0.69
2:CA:119:ALA:O	2:CA:204:GLY:HA3	1.92	0.69
2:CU:119:ALA:O	2:CU:204:GLY:HA3	1.92	0.69
2:CN:26:SER:O	2:CN:28:GLY:N	2.26	0.69
2:CR:119:ALA:O	2:CR:204:GLY:HA3	1.92	0.69
2:CQ:26:SER:O	2:CQ:28:GLY:N	2.25	0.69
2:CA:26:SER:O	2:CA:28:GLY:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:119:ALA:O	2:C8:204:GLY:HA3	1.92	0.69
2:CM:26:SER:O	2:CM:28:GLY:N	2.25	0.69
2:CB:26:SER:O	2:CB:28:GLY:N	2.25	0.69
2:C2:119:ALA:O	2:C2:204:GLY:HA3	1.92	0.69
1:A9:239:PHE:CD1	3:DA:170:TYR:HD2	240.69	0.69
1:AO:239:PHE:CD1	3:DS:170:TYR:HD2	156.26	0.69
1:A5:239:PHE:CD1	3:D6:170:TYR:HD2	2.10	0.69
1:A1:239:PHE:CD1	3:D2:170:TYR:HD2	2.10	0.69
2:CL:54:LEU:HD12	2:CL:220:ALA:HB1	1.74	0.69
2:CT:54:LEU:HD12	2:CT:220:ALA:HB1	1.73	0.69
1:AX:43:LEU:HD23	1:AX:43:LEU:N	2.07	0.69
1:AZ:43:LEU:N	1:AZ:43:LEU:HD23	2.07	0.69
1:AK:43:LEU:N	1:AK:43:LEU:HD23	2.07	0.69
1:AE:43:LEU:HD23	1:AE:43:LEU:N	2.08	0.69
1:A6:104:VAL:HG22	1:A6:197:LEU:CD2	2.22	0.69
1:A3:76:THR:HB	1:A3:220:CYS:HB2	1.74	0.69
2:CN:54:LEU:HD12	2:CN:220:ALA:HB1	1.74	0.69
2:CU:112:VAL:HG21	2:CU:126:VAL:HG21	1.72	0.69
3:D8:116:THR:CG2	3:D8:191:LEU:HD21	2.21	0.69
3:DU:116:THR:CG2	3:DU:191:LEU:HD21	2.21	0.69
3:DF:116:THR:CG2	3:DF:191:LEU:HD21	2.21	0.69
3:D1:116:THR:CG2	3:D1:191:LEU:HD21	2.21	0.69
1:A9:88:PHE:HA	1:A9:207:CYS:HA	1.74	0.69
1:AB:88:PHE:HA	1:AB:207:CYS:HA	1.74	0.69
1:AD:88:PHE:HA	1:AD:207:CYS:HA	1.74	0.69
1:AI:88:PHE:HA	1:AI:207:CYS:HA	1.74	0.69
1:AK:88:PHE:HA	1:AK:207:CYS:HA	1.74	0.69
1:AL:101:PHE:HD2	1:AL:143:VAL:HG11	1.56	0.69
1:AM:88:PHE:HA	1:AM:207:CYS:HA	1.75	0.69
1:AT:101:PHE:HD2	1:AT:143:VAL:HG11	1.56	0.69
3:DL:42:ASN:ND2	3:DL:44:ILE:H	1.90	0.69
3:DQ:42:ASN:ND2	3:DQ:44:ILE:H	1.90	0.69
1:AC:186:TRP:CZ2	1:AC:188:PRO:HA	2.27	0.69
1:AS:186:TRP:CZ2	1:AS:188:PRO:HA	2.27	0.69
1:AE:186:TRP:CZ2	1:AE:188:PRO:HA	2.27	0.69
1:AO:186:TRP:CZ2	1:AO:188:PRO:HA	2.27	0.69
1:BF:186:TRP:CZ2	1:BF:188:PRO:HA	2.27	0.69
2:CQ:208:THR:OG1	2:CQ:210:PRO:HD3	1.92	0.69
1:AC:76:THR:HB	1:AC:220:CYS:HB2	1.74	0.69
2:CT:26:SER:O	2:CT:28:GLY:N	2.25	0.69
2:CW:26:SER:O	2:CW:28:GLY:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:76:THR:HB	1:AN:220:CYS:HB2	1.74	0.69
2:CG:26:SER:O	2:CG:28:GLY:N	2.25	0.69
2:CL:26:SER:O	2:CL:28:GLY:N	2.25	0.69
2:CS:26:SER:O	2:CS:28:GLY:N	2.25	0.69
2:CU:26:SER:O	2:CU:28:GLY:N	2.25	0.69
1:A6:76:THR:HB	1:A6:220:CYS:HB2	1.74	0.69
1:AA:239:PHE:CD1	3:DA:170:TYR:HD2	2.10	0.69
1:AC:239:PHE:CD1	3:DE:170:TYR:HD2	82.15	0.69
1:AM:239:PHE:CD1	3:DM:170:TYR:HD2	2.10	0.69
1:AN:239:PHE:CD1	3:DN:170:TYR:HD2	2.10	0.69
1:A2:76:THR:HB	1:A2:220:CYS:HB2	1.74	0.69
1:A0:104:VAL:HG22	1:A0:197:LEU:CD2	2.22	0.69
1:AU:239:PHE:CD1	3:DV:170:TYR:HD2	2.10	0.69
1:A8:76:THR:HB	1:A8:220:CYS:HB2	1.74	0.69
1:AT:239:PHE:CD1	3:DU:170:TYR:HD2	2.10	0.69
1:A5:104:VAL:HG22	1:A5:197:LEU:CD2	2.22	0.69
1:AN:104:VAL:HG22	1:AN:197:LEU:CD2	2.22	0.69
1:AG:43:LEU:HD23	1:AG:43:LEU:N	2.08	0.69
1:AH:43:LEU:HD23	1:AH:43:LEU:N	2.07	0.69
1:AQ:43:LEU:N	1:AQ:43:LEU:HD23	2.07	0.69
1:AD:43:LEU:HD23	1:AD:43:LEU:N	2.07	0.69
1:AI:104:VAL:HG22	1:AI:197:LEU:CD2	2.22	0.69
3:EE:117:LYS:HB3	3:EE:119:LYS:CE	2.20	0.69
1:A8:82:LEU:HD11	1:A8:211:TYR:CD2	2.26	0.69
1:AE:88:PHE:HA	1:AE:207:CYS:HA	1.74	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:BA:88:PHE:HA	1:BA:207:CYS:HA	1.74	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
1:BG:101:PHE:HD2	1:BG:143:VAL:HG11	1.56	0.69
1:A1:88:PHE:HA	1:A1:207:CYS:HA	1.74	0.69
1:AB:186:TRP:CZ2	1:AB:188:PRO:HA	2.27	0.69
1:A9:186:TRP:CZ2	1:A9:188:PRO:HA	2.27	0.69
1:AG:186:TRP:CZ2	1:AG:188:PRO:HA	2.27	0.69
2:CE:208:THR:OG1	2:CE:210:PRO:HD3	1.92	0.69
2:CX:208:THR:OG1	2:CX:210:PRO:HD3	1.92	0.69
2:CR:208:THR:OG1	2:CR:210:PRO:HD3	1.92	0.69
2:CO:208:THR:OG1	2:CO:210:PRO:HD3	1.92	0.69
2:CX:119:ALA:O	2:CX:204:GLY:HA3	1.92	0.69
2:CD:119:ALA:O	2:CD:204:GLY:HA3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CK:119:ALA:O	2:CK:204:GLY:HA3	1.92	0.69
2:C1:13:ARG:HG3	2:C1:29:SER:O	1.91	0.69
1:AH:76:THR:HB	1:AH:220:CYS:HB2	1.74	0.69
1:AJ:76:THR:HB	1:AJ:220:CYS:HB2	1.75	0.69
2:CO:119:ALA:O	2:CO:204:GLY:HA3	1.92	0.69
2:CE:26:SER:O	2:CE:28:GLY:N	2.25	0.69
2:CR:13:ARG:HG3	2:CR:29:SER:O	1.91	0.69
1:AB:239:PHE:CD1	3:DD:170:TYR:HD2	82.15	0.69
1:BA:239:PHE:CD1	3:DP:170:TYR:HD2	131.06	0.69
1:BI:239:PHE:CD1	3:EE:170:TYR:HD2	2.10	0.69
1:AT:104:VAL:HG22	1:AT:197:LEU:CD2	2.22	0.69
1:BG:76:THR:HB	1:BG:220:CYS:HB2	1.74	0.69
1:AJ:104:VAL:HG22	1:AJ:197:LEU:CD2	2.22	0.69
2:CQ:54:LEU:HD12	2:CQ:220:ALA:HB1	1.73	0.69
1:AL:104:VAL:HG22	1:AL:197:LEU:CD2	2.22	0.69
1:A6:43:LEU:N	1:A6:43:LEU:HD23	2.07	0.69
1:BC:43:LEU:HD23	1:BC:43:LEU:N	2.07	0.69
2:CR:54:LEU:HD12	2:CR:220:ALA:HB1	1.74	0.69
3:DB:116:THR:CG2	3:DB:191:LEU:HD21	2.21	0.69
3:DV:117:LYS:HB3	3:DV:119:LYS:CE	2.20	0.69
1:AG:88:PHE:HA	1:AG:207:CYS:HA	1.74	0.69
1:AY:186:TRP:CZ2	1:AY:188:PRO:HA	2.27	0.69
2:CL:119:ALA:O	2:CL:204:GLY:HA3	1.92	0.69
2:CG:119:ALA:O	2:CG:204:GLY:HA3	1.92	0.69
2:CC:26:SER:O	2:CC:28:GLY:N	2.25	0.69
1:AG:76:THR:HB	1:AG:220:CYS:HB2	1.74	0.69
2:C8:26:SER:O	2:C8:28:GLY:N	2.25	0.69
2:C2:26:SER:O	2:C2:28:GLY:N	2.25	0.69
1:A1:76:THR:HB	1:A1:220:CYS:HB2	1.75	0.69
1:AF:239:PHE:CD1	3:DF:170:TYR:HD2	2.10	0.69
1:BH:104:VAL:HG22	1:BH:197:LEU:CD2	2.22	0.69
1:A2:104:VAL:HG22	1:A2:197:LEU:CD2	2.22	0.69
1:AO:43:LEU:HD23	1:AO:43:LEU:N	2.08	0.69
3:DX:116:THR:CG2	3:DX:191:LEU:HD21	2.21	0.69
3:DM:116:THR:CG2	3:DM:191:LEU:HD21	2.21	0.69
1:AL:88:PHE:HA	1:AL:207:CYS:HA	1.74	0.69
1:AO:82:LEU:HD11	1:AO:211:TYR:CD2	2.26	0.69
1:BD:88:PHE:HA	1:BD:207:CYS:HA	1.75	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
3:DR:42:ASN:ND2	3:DR:44:ILE:H	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:88:PHE:HA	1:A3:207:CYS:HA	1.75	0.69
1:A6:101:PHE:HD2	1:A6:143:VAL:HG11	1.56	0.69
3:DE:42:ASN:ND2	3:DE:44:ILE:H	1.90	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
1:BB:186:TRP:CZ2	1:BB:188:PRO:HA	2.27	0.69
1:AX:186:TRP:CZ2	1:AX:188:PRO:HA	2.27	0.69
2:CY:208:THR:OG1	2:CY:210:PRO:HD3	1.92	0.69
1:BH:76:THR:HB	1:BH:220:CYS:HB2	1.74	0.69
1:AO:239:PHE:CD1	3:DO:170:TYR:HD2	2.10	0.69
1:AF:239:PHE:CD1	3:DH:170:TYR:HD2	82.15	0.69
1:AD:239:PHE:CD1	3:DF:170:TYR:HD2	132.84	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:AS:239:PHE:CD1	3:DT:170:TYR:HD2	2.10	0.69
1:A3:104:VAL:HG22	1:A3:197:LEU:CD2	2.22	0.69
1:AM:104:VAL:HG22	1:AM:197:LEU:CD2	2.22	0.69
1:A5:43:LEU:N	1:A5:43:LEU:HD23	2.08	0.69
1:AI:43:LEU:HD23	1:AI:43:LEU:N	2.07	0.69
1:AA:43:LEU:N	1:AA:43:LEU:HD23	2.07	0.69
1:AC:43:LEU:HD23	1:AC:43:LEU:N	2.07	0.69
1:A2:43:LEU:HD23	1:A2:43:LEU:N	2.07	0.69
1:AN:43:LEU:HD23	1:AN:43:LEU:N	2.07	0.69
1:AG:104:VAL:HG22	1:AG:197:LEU:CD2	2.22	0.69
2:CF:212:THR:HG21	3:DV:188:LEU:HD22	189.29	0.69
1:AE:82:LEU:HD11	1:AE:211:TYR:CD2	2.26	0.69
1:AO:88:PHE:HA	1:AO:207:CYS:HA	1.74	0.69
1:BI:88:PHE:HA	1:BI:207:CYS:HA	1.74	0.69
3:DN:42:ASN:ND2	3:DN:44:ILE:H	1.90	0.69
3:D8:42:ASN:ND2	3:D8:44:ILE:H	1.90	0.69
1:A7:88:PHE:HA	1:A7:207:CYS:HA	1.74	0.69
1:AH:186:TRP:CZ2	1:AH:188:PRO:HA	2.27	0.69
1:A4:186:TRP:CZ2	1:A4:188:PRO:HA	2.27	0.69
1:AW:186:TRP:CZ2	1:AW:188:PRO:HA	2.27	0.69
2:CP:208:THR:OG1	2:CP:210:PRO:HD3	1.92	0.69
2:C3:208:THR:OG1	2:C3:210:PRO:HD3	1.92	0.69
2:CF:208:THR:OG1	2:CF:210:PRO:HD3	1.92	0.69
1:BE:186:TRP:CZ2	1:BE:188:PRO:HA	2.27	0.69
2:C2:208:THR:OG1	2:C2:210:PRO:HD3	1.92	0.69
2:CW:208:THR:OG1	2:CW:210:PRO:HD3	1.92	0.69
2:C6:13:ARG:HG3	2:C6:29:SER:O	1.91	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
2:CV:119:ALA:O	2:CV:204:GLY:HA3	1.92	0.69
2:CZ:26:SER:O	2:CZ:28:GLY:N	2.25	0.69
1:A4:76:THR:HB	1:A4:220:CYS:HB2	1.74	0.69
1:AK:239:PHE:CD1	3:DM:170:TYR:HD2	82.15	0.69
1:AI:239:PHE:CD1	3:DI:170:TYR:HD2	2.10	0.69
1:AA:104:VAL:HG22	1:AA:197:LEU:CD2	2.22	0.69
1:AZ:239:PHE:CD1	3:D0:170:TYR:HD2	2.10	0.69
1:AP:43:LEU:HD23	1:AP:43:LEU:N	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:A7:104:VAL:HG22	1:A7:197:LEU:CD2	2.22	0.69
2:CK:212:THR:HG21	3:DB:188:LEU:HD22	255.26	0.69
2:CT:212:THR:HG21	3:DH:188:LEU:HD22	224.41	0.69
3:DY:117:LYS:HB3	3:DY:119:LYS:CE	2.20	0.69
2:CA:212:THR:HG21	3:DW:188:LEU:HD22	1.75	0.69
2:C6:212:THR:HG21	3:DE:188:LEU:HD22	1.75	0.69
2:CB:212:THR:HG21	3:DT:188:LEU:HD22	256.02	0.69
3:D1:117:LYS:HB3	3:D1:119:LYS:CE	2.20	0.69
1:AF:88:PHE:HA	1:AF:207:CYS:HA	1.75	0.69
1:AT:82:LEU:HD11	1:AT:211:TYR:CD2	2.26	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
3:EC:19:PRO:HG3	4:FV:17:ASN:HD21	222.72	0.69
3:D7:42:ASN:ND2	3:D7:44:ILE:H	1.90	0.69
3:D2:42:ASN:ND2	3:D2:44:ILE:H	1.90	0.69
1:BH:88:PHE:HA	1:BH:207:CYS:HA	1.75	0.69
1:AU:186:TRP:CZ2	1:AU:188:PRO:HA	2.27	0.69
1:AQ:186:TRP:CZ2	1:AQ:188:PRO:HA	2.27	0.69
1:A0:113:THR:HB	1:A1:240:PRO:O	1.93	0.69
2:C9:26:SER:O	2:C9:28:GLY:N	2.25	0.69
2:CJ:26:SER:O	2:CJ:28:GLY:N	2.25	0.69
1:BA:76:THR:HB	1:BA:220:CYS:HB2	1.74	0.69
1:AT:76:THR:HB	1:AT:220:CYS:HB2	1.75	0.69
1:AX:239:PHE:CD1	3:DY:170:TYR:HD2	2.10	0.69
1:AW:239:PHE:CD1	3:DX:170:TYR:HD2	2.10	0.69
2:C5:54:LEU:HD12	2:C5:220:ALA:HB1	1.73	0.69
1:BB:104:VAL:HG22	1:BB:197:LEU:CD2	2.22	0.69
2:CY:54:LEU:HD12	2:CY:220:ALA:HB1	1.74	0.69
1:AW:104:VAL:HG22	1:AW:197:LEU:CD2	2.22	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:AP:104:VAL:HG22	1:AP:197:LEU:CD2	2.22	0.69
1:A0:43:LEU:HD23	1:A0:43:LEU:N	2.07	0.69
1:AB:43:LEU:N	1:AB:43:LEU:HD23	2.08	0.69
1:AL:43:LEU:N	1:AL:43:LEU:HD23	2.07	0.69
1:AU:43:LEU:N	1:AU:43:LEU:HD23	2.07	0.69
1:AV:43:LEU:N	1:AV:43:LEU:HD23	2.08	0.69
1:AY:104:VAL:HG22	1:AY:197:LEU:CD2	2.22	0.69
1:AR:104:VAL:HG22	1:AR:197:LEU:CD2	2.22	0.69
3:DS:116:THR:CG2	3:DS:191:LEU:HD21	2.21	0.69
2:CM:115:ASN:ND2	3:DI:190:ALA:O	263.48	0.69
3:DI:119:LYS:HG2	3:DI:147:ASP:OD2	1.93	0.69
2:CQ:115:ASN:ND2	3:DY:190:ALA:O	115.41	0.69
3:DP:116:THR:CG2	3:DP:191:LEU:HD21	2.21	0.69
2:CZ:212:THR:HG21	3:DQ:188:LEU:HD22	87.05	0.69
2:CA:212:THR:HG21	3:DL:188:LEU:HD22	255.26	0.69
3:DE:116:THR:CG2	3:DE:191:LEU:HD21	2.21	0.69
2:CE:212:THR:HG21	3:DC:188:LEU:HD22	146.89	0.69
2:CS:212:THR:HG21	3:DC:188:LEU:HD22	256.02	0.69
2:CP:115:ASN:ND2	3:D1:190:ALA:O	2.26	0.69
1:AS:88:PHE:HA	1:AS:207:CYS:HA	1.75	0.69
1:AX:88:PHE:HA	1:AX:207:CYS:HA	1.74	0.69
1:BE:101:PHE:HD2	1:BE:143:VAL:HG11	1.56	0.69
1:BE:82:LEU:HD11	1:BE:211:TYR:CD2	2.26	0.69
1:AA:88:PHE:HE2	1:AA:146:ILE:HG21	1.58	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:AF:88:PHE:CE2	1:AF:146:ILE:HD13	2.28	0.69
1:AJ:88:PHE:HE2	1:AJ:146:ILE:HG21	1.58	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:BF:88:PHE:HA	1:BF:207:CYS:HA	1.74	0.69
3:DO:42:ASN:ND2	3:DO:44:ILE:H	1.90	0.69
3:DD:42:ASN:ND2	3:DD:44:ILE:H	1.90	0.69
3:DB:42:ASN:ND2	3:DB:44:ILE:H	1.90	0.69
1:A7:88:PHE:HE2	1:A7:146:ILE:HG21	1.58	0.69
3:EC:42:ASN:ND2	3:EC:44:ILE:H	1.90	0.69
3:D0:42:ASN:ND2	3:D0:44:ILE:H	1.90	0.69
1:BH:88:PHE:CE2	1:BH:146:ILE:HD13	2.28	0.69
1:AG:112:PRO:HD2	3:DE:220:VAL:CG1	152.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:AF:164:TRP:HZ2	1:AF:187:LEU:HD21	1.58	0.69
1:A7:186:TRP:CZ2	1:A7:188:PRO:HA	2.27	0.69
1:BC:186:TRP:CZ2	1:BC:188:PRO:HA	2.27	0.69
2:CN:208:THR:OG1	2:CN:210:PRO:HD3	1.92	0.69
2:C9:208:THR:OG1	2:C9:210:PRO:HD3	1.92	0.69
2:CS:208:THR:OG1	2:CS:210:PRO:HD3	1.92	0.69
2:CA:208:THR:OG1	2:CA:210:PRO:HD3	1.92	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
1:AA:240:PRO:O	1:AN:113:THR:HB	265.04	0.69
1:AO:240:PRO:O	1:AR:113:THR:HB	161.76	0.69
1:AF:113:THR:HB	1:AG:240:PRO:O	1.93	0.69
2:CP:152:TYR:CZ	3:DP:60:PRO:HD3	2.28	0.69
2:CL:152:TYR:CZ	3:DL:60:PRO:HD3	2.28	0.69
2:C5:26:SER:O	2:C5:28:GLY:N	2.25	0.69
2:C3:152:TYR:CZ	3:D3:60:PRO:HD3	2.28	0.69
2:CH:119:ALA:O	2:CH:204:GLY:HA3	1.92	0.69
1:AL:76:THR:HB	1:AL:220:CYS:HB2	1.74	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
2:CY:26:SER:O	2:CY:28:GLY:N	2.25	0.69
1:A0:76:THR:HB	1:A0:220:CYS:HB2	1.75	0.69
1:AM:239:PHE:CD1	3:DO:170:TYR:HD2	82.15	0.69
1:BD:239:PHE:CD1	3:DS:170:TYR:HD2	162.13	0.69
1:AL:239:PHE:CD1	3:DL:170:TYR:HD2	2.10	0.69
2:CD:223:ASN:H	2:CD:223:ASN:HD22	1.41	0.69
1:BG:239:PHE:CD1	3:EC:170:TYR:HD2	2.10	0.69
1:BH:239:PHE:CD1	3:ED:170:TYR:HD2	2.10	0.69
1:A8:239:PHE:CD1	3:D9:170:TYR:HD2	2.10	0.69
1:AW:43:LEU:HD23	1:AW:43:LEU:N	2.07	0.69
2:CJ:223:ASN:H	2:CJ:223:ASN:HD22	1.41	0.69
1:BE:104:VAL:HG22	1:BE:197:LEU:CD2	2.22	0.69
1:AQ:104:VAL:HG22	1:AQ:197:LEU:CD2	2.22	0.69
2:CF:223:ASN:HD22	2:CF:223:ASN:H	1.41	0.69
1:A7:239:PHE:CD1	3:D8:170:TYR:HD2	2.10	0.69
1:AD:104:VAL:HG22	1:AD:197:LEU:CD2	2.22	0.69
1:A4:104:VAL:HG22	1:A4:197:LEU:CD2	2.22	0.69
1:AX:104:VAL:HG22	1:AX:197:LEU:CD2	2.22	0.69
1:BG:43:LEU:HD23	1:BG:43:LEU:N	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:43:LEU:N	1:A7:43:LEU:HD23	2.08	0.69
1:A8:43:LEU:HD23	1:A8:43:LEU:N	2.07	0.69
1:AJ:43:LEU:N	1:AJ:43:LEU:HD23	2.08	0.69
1:AF:43:LEU:N	1:AF:43:LEU:HD23	2.07	0.69
3:DR:99:GLN:OE1	3:DR:217:ARG:HD2	1.93	0.69
1:BE:76:THR:HB	1:BE:220:CYS:HB2	1.74	0.69
3:D9:119:LYS:HG2	3:D9:147:ASP:OD2	1.93	0.69
2:C7:115:ASN:ND2	3:DM:190:ALA:O	156.42	0.69
2:CT:115:ASN:ND2	3:DH:190:ALA:O	232.45	0.69
2:CT:212:THR:HG21	3:DK:188:LEU:HD22	1.75	0.69
3:D8:119:LYS:HG2	3:D8:147:ASP:OD2	1.93	0.69
3:DH:116:THR:CG2	3:DH:191:LEU:HD21	2.21	0.69
3:DG:119:LYS:HG2	3:DG:147:ASP:OD2	1.93	0.69
2:C5:115:ASN:ND2	3:DG:190:ALA:O	2.26	0.69
2:C9:115:ASN:ND2	3:DL:190:ALA:O	93.19	0.69
1:AB:88:PHE:HE2	1:AB:146:ILE:HG21	1.58	0.69
1:AK:88:PHE:CE2	1:AK:146:ILE:HD13	2.28	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
3:D4:42:ASN:ND2	3:D4:44:ILE:H	1.90	0.69
3:DK:42:ASN:ND2	3:DK:44:ILE:H	1.90	0.69
1:AV:88:PHE:CE2	1:AV:146:ILE:HD13	2.28	0.69
1:A4:88:PHE:HE2	1:A4:146:ILE:HG21	1.58	0.69
1:AY:88:PHE:CE2	1:AY:146:ILE:HD13	2.28	0.69
1:AZ:88:PHE:CE2	1:AZ:146:ILE:HD13	2.28	0.69
1:AY:112:PRO:HD2	3:D0:220:VAL:CG1	2.18	0.69
1:AC:164:TRP:HZ2	1:AC:187:LEU:HD21	1.58	0.69
1:AE:164:TRP:HZ2	1:AE:187:LEU:HD21	1.58	0.69
1:BB:164:TRP:HZ2	1:BB:187:LEU:HD21	1.58	0.69
1:A6:88:PHE:CE2	1:A6:146:ILE:HD13	2.28	0.69
1:A2:186:TRP:CZ2	1:A2:188:PRO:HA	2.27	0.69
1:BI:186:TRP:CZ2	1:BI:188:PRO:HA	2.27	0.69
2:CT:208:THR:OG1	2:CT:210:PRO:HD3	1.92	0.69
1:AT:164:TRP:HZ2	1:AT:187:LEU:HD21	1.58	0.69
2:C6:208:THR:OG1	2:C6:210:PRO:HD3	1.92	0.69
1:AB:113:THR:HB	1:AC:240:PRO:O	1.93	0.69
2:CA:58:LEU:HD13	2:CA:94:PHE:CA	2.23	0.69
1:AD:113:THR:HB	1:AE:240:PRO:O	1.93	0.69
1:AD:103:TRP:HB2	1:AD:198:THR:CG2	2.23	0.69
2:CF:58:LEU:HD13	2:CF:94:PHE:CA	2.23	0.69
1:AO:113:THR:HB	1:AS:240:PRO:O	98.47	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:113:THR:HB	1:AB:240:PRO:O	1.93	0.69
1:AI:113:THR:HB	1:AJ:240:PRO:O	1.93	0.69
1:BH:103:TRP:HB2	1:BH:198:THR:CG2	2.23	0.69
2:CE:58:LEU:HD13	2:CE:94:PHE:CA	2.23	0.69
1:AY:113:THR:HB	1:AZ:240:PRO:O	1.93	0.69
1:AU:103:TRP:HB2	1:AU:198:THR:CG2	2.23	0.69
1:AP:240:PRO:O	1:AS:113:THR:HB	1.93	0.69
1:AH:103:TRP:HB2	1:AH:198:THR:CG2	2.23	0.69
2:CV:152:TYR:CZ	3:EC:60:PRO:HD3	265.42	0.69
2:CU:152:TYR:CZ	3:DU:60:PRO:HD3	2.28	0.69
2:CX:152:TYR:CZ	3:DX:60:PRO:HD3	2.28	0.69
2:C4:26:SER:O	2:C4:28:GLY:N	2.25	0.69
2:CO:26:SER:O	2:CO:28:GLY:N	2.25	0.69
2:C5:152:TYR:CZ	3:D5:60:PRO:HD3	2.28	0.69
2:CS:152:TYR:CZ	3:DS:60:PRO:HD3	2.28	0.69
2:CW:119:ALA:O	2:CW:204:GLY:HA3	1.92	0.69
2:CC:223:ASN:H	2:CC:223:ASN:HD22	1.41	0.69
2:CC:54:LEU:HD12	2:CC:220:ALA:HB1	1.74	0.69
1:AQ:239:PHE:CD1	3:DQ:170:TYR:HD2	2.10	0.69
1:BB:239:PHE:CD1	3:DQ:170:TYR:HD2	119.77	0.69
1:A1:104:VAL:HG22	1:A1:197:LEU:CD2	2.22	0.69
3:DN:99:GLN:OE1	3:DN:217:ARG:HD2	1.93	0.69
2:C7:54:LEU:HD12	2:C7:220:ALA:HB1	1.74	0.69
2:CK:54:LEU:HD12	2:CK:220:ALA:HB1	1.74	0.69
1:AS:43:LEU:N	1:AS:43:LEU:HD23	2.07	0.69
1:BI:43:LEU:N	1:BI:43:LEU:HD23	2.07	0.69
1:BA:43:LEU:HD23	1:BA:43:LEU:N	2.07	0.69
1:AV:239:PHE:CD1	3:DW:170:TYR:HD2	2.10	0.69
2:CW:115:ASN:ND2	3:DS:190:ALA:O	252.82	0.69
2:CI:115:ASN:ND2	3:DX:190:ALA:O	2.26	0.69
3:ED:119:LYS:HG2	3:ED:147:ASP:OD2	1.93	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
2:C5:212:THR:HG21	3:DG:188:LEU:HD22	1.75	0.69
3:D7:116:THR:CG2	3:D7:191:LEU:HD21	2.21	0.69
2:CO:115:ASN:ND2	3:DP:190:ALA:O	2.26	0.69
3:D3:116:THR:CG2	3:D3:191:LEU:HD21	2.21	0.69
2:C0:115:ASN:ND2	3:DQ:190:ALA:O	2.26	0.69
3:DE:119:LYS:HG2	3:DE:147:ASP:OD2	1.93	0.69
2:CS:115:ASN:ND2	3:DC:190:ALA:O	263.48	0.69
3:DT:119:LYS:HG2	3:DT:147:ASP:OD2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D1:119:LYS:HG2	3:D1:147:ASP:OD2	1.93	0.69
2:CF:115:ASN:ND2	3:D6:190:ALA:O	2.26	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:AB:82:LEU:HD11	1:AB:211:TYR:CD2	2.26	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:AH:88:PHE:CE2	1:AH:146:ILE:HD13	2.28	0.69
1:AO:88:PHE:CE2	1:AO:146:ILE:HD13	2.28	0.69
1:AS:88:PHE:CE2	1:AS:146:ILE:HD13	2.28	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:88:PHE:HA	1:BE:207:CYS:HA	1.74	0.69
3:EA:19:PRO:HG3	4:FT:17:ASN:HD21	137.54	0.69
3:DM:42:ASN:ND2	3:DM:44:ILE:H	1.90	0.69
1:A3:88:PHE:HE2	1:A3:146:ILE:HG21	1.58	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
1:AY:88:PHE:HE2	1:AY:146:ILE:HG21	1.58	0.69
1:BH:186:TRP:CZ2	1:BH:188:PRO:HA	2.27	0.69
1:A6:88:PHE:HE2	1:A6:146:ILE:HG21	1.58	0.69
1:AG:103:TRP:HB2	1:AG:198:THR:CG2	2.23	0.69
1:BF:113:THR:HB	1:BG:240:PRO:O	1.93	0.69
2:CN:58:LEU:HD13	2:CN:94:PHE:CA	2.23	0.69
2:CU:58:LEU:HD13	2:CU:94:PHE:CA	2.23	0.69
1:AC:113:THR:HB	1:AD:240:PRO:O	1.93	0.69
1:AJ:103:TRP:HB2	1:AJ:198:THR:CG2	2.23	0.69
1:AO:103:TRP:HB2	1:AO:198:THR:CG2	2.23	0.69
1:AK:240:PRO:O	1:AO:113:THR:HB	1.93	0.69
2:C6:58:LEU:HD13	2:C6:94:PHE:CA	2.23	0.69
1:AM:103:TRP:HB2	1:AM:198:THR:CG2	2.23	0.69
1:A3:240:PRO:O	1:A7:113:THR:HB	1.93	0.69
2:CT:58:LEU:HD13	2:CT:94:PHE:CA	2.23	0.69
1:AW:103:TRP:HB2	1:AW:198:THR:CG2	2.23	0.69
1:AH:113:THR:HB	1:AI:240:PRO:O	1.93	0.69
2:CH:152:TYR:CZ	3:DH:60:PRO:HD3	2.28	0.69
2:CF:152:TYR:CZ	3:DF:60:PRO:HD3	2.28	0.69
2:CJ:152:TYR:CZ	3:DJ:60:PRO:HD3	2.28	0.69
2:CI:119:ALA:O	2:CI:204:GLY:HA3	1.92	0.69
2:CR:152:TYR:CZ	3:DR:60:PRO:HD3	2.28	0.69
2:CX:26:SER:O	2:CX:28:GLY:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:119:ALA:O	2:C0:204:GLY:HA3	1.92	0.69
2:C7:119:ALA:O	2:C7:204:GLY:HA3	1.92	0.69
2:C2:152:TYR:CZ	3:D2:60:PRO:HD3	2.28	0.69
1:BB:76:THR:HB	1:BB:220:CYS:HB2	1.74	0.69
1:AG:239:PHE:CD1	3:DI:170:TYR:HD2	82.15	0.69
2:CF:54:LEU:HD12	2:CF:220:ALA:HB1	1.74	0.69
3:EA:99:GLN:OE1	3:EA:217:ARG:HD2	1.93	0.69
3:DF:99:GLN:OE1	3:DF:217:ARG:HD2	1.93	0.69
3:ED:99:GLN:OE1	3:ED:217:ARG:HD2	1.93	0.69
1:BE:43:LEU:N	1:BE:43:LEU:HD23	2.07	0.69
1:AM:43:LEU:N	1:AM:43:LEU:HD23	2.07	0.69
3:DH:99:GLN:OE1	3:DH:217:ARG:HD2	1.93	0.69
2:CC:115:ASN:ND2	3:ED:190:ALA:O	252.82	0.68
2:CK:212:THR:HG21	3:DA:188:LEU:HD22	266.70	0.68
2:CR:212:THR:HG21	3:DI:188:LEU:HD22	157.54	0.68
2:C2:115:ASN:ND2	3:DH:190:ALA:O	263.70	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
2:CA:115:ASN:ND2	3:DL:190:ALA:O	263.70	0.68
3:D2:116:THR:CG2	3:D2:191:LEU:HD21	2.21	0.68
2:CB:212:THR:HG21	3:DF:188:LEU:HD22	138.61	0.68
3:DF:119:LYS:HG2	3:DF:147:ASP:OD2	1.93	0.68
2:CB:115:ASN:ND2	3:DF:190:ALA:O	150.77	0.68
3:EA:116:THR:CG2	3:EA:191:LEU:HD21	2.21	0.68
3:D0:116:THR:CG2	3:D0:191:LEU:HD21	2.21	0.68
1:A8:88:PHE:HA	1:A8:207:CYS:HA	1.74	0.68
1:A9:88:PHE:CE2	1:A9:146:ILE:HD13	2.28	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:AI:88:PHE:CE2	1:AI:146:ILE:HD13	2.28	0.68
1:AL:88:PHE:CE2	1:AL:146:ILE:HD13	2.28	0.68
1:AR:88:PHE:HA	1:AR:207:CYS:HA	1.75	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:BI:88:PHE:HE2	1:BI:146:ILE:HG21	1.58	0.68
3:DW:42:ASN:ND2	3:DW:44:ILE:H	1.90	0.68
1:A2:82:LEU:HD11	1:A2:211:TYR:CD2	2.26	0.68
1:BD:164:TRP:HZ2	1:BD:187:LEU:HD21	1.58	0.68
1:A8:186:TRP:CZ2	1:A8:188:PRO:HA	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C5:208:THR:OG1	2:C5:210:PRO:HD3	1.92	0.68
2:CM:208:THR:OG1	2:CM:210:PRO:HD3	1.92	0.68
1:AC:240:PRO:O	1:AG:113:THR:HB	207.05	0.68
1:AP:103:TRP:HB2	1:AP:198:THR:CG2	2.23	0.68
1:BF:103:TRP:HB2	1:BF:198:THR:CG2	2.23	0.68
2:C9:58:LEU:HD13	2:C9:94:PHE:CA	2.23	0.68
2:CH:58:LEU:HD13	2:CH:94:PHE:CA	2.23	0.68
1:AC:103:TRP:HB2	1:AC:198:THR:CG2	2.23	0.68
2:CD:20:GLY:HA2	2:CD:56:PRO:O	1.94	0.68
2:CD:58:LEU:HD13	2:CD:94:PHE:CA	2.23	0.68
2:CB:58:LEU:HD13	2:CB:94:PHE:CA	2.23	0.68
2:CX:58:LEU:HD13	2:CX:94:PHE:CA	2.23	0.68
1:AT:240:PRO:O	1:AX:113:THR:HB	1.93	0.68
1:AM:113:THR:HB	1:AN:240:PRO:O	1.93	0.68
1:AI:103:TRP:HB2	1:AI:198:THR:CG2	2.23	0.68
1:BH:113:THR:HB	1:BI:240:PRO:O	1.93	0.68
2:C2:58:LEU:HD13	2:C2:94:PHE:CA	2.23	0.68
1:A5:113:THR:HB	1:A6:240:PRO:O	1.93	0.68
1:A4:103:TRP:HB2	1:A4:198:THR:CG2	2.23	0.68
2:CQ:152:TYR:CZ	3:DQ:60:PRO:HD3	2.28	0.68
2:CN:152:TYR:CZ	3:DN:60:PRO:HD3	2.28	0.68
2:C9:119:ALA:O	2:C9:204:GLY:HA3	1.92	0.68
1:AI:76:THR:HB	1:AI:220:CYS:HB2	1.74	0.68
2:C9:152:TYR:CZ	3:D9:60:PRO:HD3	2.28	0.68
2:CK:152:TYR:CZ	3:DK:60:PRO:HD3	2.28	0.68
2:C1:26:SER:O	2:C1:28:GLY:N	2.26	0.68
1:AB:76:THR:HB	1:AB:220:CYS:HB2	1.74	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
1:AU:76:THR:HB	1:AU:220:CYS:HB2	1.74	0.68
1:AS:76:THR:HB	1:AS:220:CYS:HB2	1.74	0.68
1:AR:239:PHE:CD1	3:DR:170:TYR:HD2	2.10	0.68
1:AB:239:PHE:CD1	3:DB:170:TYR:HD2	2.10	0.68
1:AS:104:VAL:HG22	1:AS:197:LEU:CD2	2.22	0.68
3:D9:99:GLN:OE1	3:D9:217:ARG:HD2	1.93	0.68
3:D2:99:GLN:OE1	3:D2:217:ARG:HD2	1.93	0.68
2:C6:54:LEU:HD12	2:C6:220:ALA:HB1	1.74	0.68
2:CQ:20:GLY:HA2	2:CQ:56:PRO:O	1.94	0.68
2:C6:223:ASN:H	2:C6:223:ASN:HD22	1.41	0.68
2:CM:223:ASN:HD22	2:CM:223:ASN:H	1.41	0.68
1:BC:104:VAL:HG22	1:BC:197:LEU:CD2	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:43:LEU:N	1:BD:43:LEU:HD23	2.07	0.68
2:C6:20:GLY:HA2	2:C6:56:PRO:O	1.93	0.68
2:CV:115:ASN:ND2	3:DB:190:ALA:O	2.26	0.68
2:CV:115:ASN:ND2	3:DD:190:ALA:O	148.62	0.68
3:EE:119:LYS:HG2	3:EE:147:ASP:OD2	1.93	0.68
3:DH:119:LYS:HG2	3:DH:147:ASP:OD2	1.93	0.68
2:CD:115:ASN:ND2	3:D7:190:ALA:O	2.26	0.68
2:CX:212:THR:HG21	3:DR:188:LEU:HD22	148.98	0.68
2:C0:212:THR:HG21	3:DQ:188:LEU:HD22	1.75	0.68
2:C9:212:THR:HG21	3:DL:188:LEU:HD22	87.05	0.68
3:DW:119:LYS:HG2	3:DW:147:ASP:OD2	1.93	0.68
1:A9:82:LEU:HD11	1:A9:211:TYR:CD2	2.26	0.68
1:AC:88:PHE:CE2	1:AC:146:ILE:HD13	2.28	0.68
1:AJ:88:PHE:CE2	1:AJ:146:ILE:HD13	2.28	0.68
1:BG:88:PHE:HE2	1:BG:146:ILE:HG21	1.58	0.68
3:D6:42:ASN:ND2	3:D6:44:ILE:H	1.90	0.68
3:D3:42:ASN:ND2	3:D3:44:ILE:H	1.90	0.68
1:A4:88:PHE:CE2	1:A4:146:ILE:HD13	2.28	0.68
1:A0:88:PHE:HA	1:A0:207:CYS:HA	1.75	0.68
1:A5:101:PHE:HD2	1:A5:143:VAL:HG11	1.56	0.68
2:CW:58:LEU:HD13	2:CW:94:PHE:CA	2.23	0.68
2:C7:20:GLY:HA2	2:C7:56:PRO:O	1.93	0.68
2:CP:20:GLY:HA2	2:CP:56:PRO:O	1.94	0.68
1:A2:103:TRP:HB2	1:A2:198:THR:CG2	2.23	0.68
1:AM:113:THR:HB	1:BA:240:PRO:O	223.87	0.68
1:AQ:103:TRP:HB2	1:AQ:198:THR:CG2	2.23	0.68
2:CT:152:TYR:CZ	3:EA:60:PRO:HD3	198.96	0.68
1:AA:76:THR:HB	1:AA:220:CYS:HB2	1.74	0.68
2:CE:152:TYR:CZ	3:DE:60:PRO:HD3	2.28	0.68
1:AV:76:THR:HB	1:AV:220:CYS:HB2	1.74	0.68
1:AK:239:PHE:CD1	3:DK:170:TYR:HD2	2.10	0.68
3:D8:99:GLN:OE1	3:D8:217:ARG:HD2	1.93	0.68
3:DZ:99:GLN:OE1	3:DZ:217:ARG:HD2	1.93	0.68
1:A0:239:PHE:CD1	3:D1:170:TYR:HD2	2.10	0.68
2:CQ:223:ASN:HD22	2:CQ:223:ASN:H	1.41	0.68
2:CP:54:LEU:HD12	2:CP:220:ALA:HB1	1.74	0.68
3:D5:99:GLN:OE1	3:D5:217:ARG:HD2	1.93	0.68
2:CZ:54:LEU:HD12	2:CZ:220:ALA:HB1	1.74	0.68
3:DE:99:GLN:OE1	3:DE:217:ARG:HD2	1.93	0.68
1:BA:104:VAL:HG22	1:BA:197:LEU:CD2	2.22	0.68
3:DP:99:GLN:OE1	3:DP:217:ARG:HD2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:43:LEU:HD23	1:BF:43:LEU:N	2.08	0.68
1:BB:43:LEU:HD23	1:BB:43:LEU:N	2.07	0.68
2:CV:223:ASN:H	2:CV:223:ASN:HD22	1.41	0.68
2:CW:115:ASN:ND2	3:DJ:190:ALA:O	2.26	0.68
2:CR:115:ASN:ND2	3:DI:190:ALA:O	163.21	0.68
2:CL:115:ASN:ND2	3:DK:190:ALA:O	114.98	0.68
3:D7:119:LYS:HG2	3:D7:147:ASP:OD2	1.93	0.68
2:C1:115:ASN:ND2	3:DO:190:ALA:O	2.26	0.68
2:CX:115:ASN:ND2	3:DR:190:ALA:O	156.42	0.68
3:D3:119:LYS:HG2	3:D3:147:ASP:OD2	1.93	0.68
3:DL:119:LYS:HG2	3:DL:147:ASP:OD2	1.93	0.68
2:CY:115:ASN:ND2	3:DZ:190:ALA:O	2.26	0.68
3:DU:119:LYS:HG2	3:DU:147:ASP:OD2	1.93	0.68
2:CB:115:ASN:ND2	3:DT:190:ALA:O	263.48	0.68
2:CE:115:ASN:ND2	3:DF:190:ALA:O	2.26	0.68
3:DV:119:LYS:HG2	3:DV:147:ASP:OD2	1.93	0.68
1:A8:88:PHE:HE2	1:A8:146:ILE:HG21	1.58	0.68
1:AC:88:PHE:HE2	1:AC:146:ILE:HG21	1.58	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:AO:88:PHE:HE2	1:AO:146:ILE:HG21	1.58	0.68
1:AP:88:PHE:CE2	1:AP:146:ILE:HD13	2.28	0.68
1:AW:82:LEU:HD11	1:AW:211:TYR:CD2	2.26	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
3:DS:42:ASN:ND2	3:DS:44:ILE:H	1.90	0.68
3:DY:42:ASN:ND2	3:DY:44:ILE:H	1.90	0.68
1:AV:88:PHE:HE2	1:AV:146:ILE:HG21	1.58	0.68
1:A4:88:PHE:HA	1:A4:207:CYS:HA	1.74	0.68
1:AU:164:TRP:HZ2	1:AU:187:LEU:HD21	1.58	0.68
1:AD:164:TRP:HZ2	1:AD:187:LEU:HD21	1.58	0.68
1:BF:164:TRP:HZ2	1:BF:187:LEU:HD21	1.58	0.68
2:CC:208:THR:OG1	2:CC:210:PRO:HD3	1.92	0.68
2:CK:208:THR:OG1	2:CK:210:PRO:HD3	1.92	0.68
1:BE:113:THR:HB	1:BF:240:PRO:O	1.93	0.68
1:AP:113:THR:HB	1:AQ:240:PRO:O	1.93	0.68
1:A3:113:THR:HB	1:A4:240:PRO:O	1.93	0.68
1:AN:103:TRP:HB2	1:AN:198:THR:CG2	2.23	0.68
1:A6:113:THR:HB	1:A7:240:PRO:O	1.93	0.68
1:BI:103:TRP:HB2	1:BI:198:THR:CG2	2.23	0.68
2:CR:58:LEU:HD13	2:CR:94:PHE:CA	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:58:LEU:HD13	2:CL:94:PHE:CA	2.23	0.68
2:CT:20:GLY:HA2	2:CT:56:PRO:O	1.94	0.68
1:A5:103:TRP:HB2	1:A5:198:THR:CG2	2.23	0.68
2:C3:58:LEU:HD13	2:C3:94:PHE:CA	2.23	0.68
2:CY:152:TYR:CZ	3:DY:60:PRO:HD3	2.28	0.68
2:CT:152:TYR:CZ	3:DT:60:PRO:HD3	2.28	0.68
2:CA:152:TYR:CZ	3:DA:60:PRO:HD3	2.28	0.68
2:C3:119:ALA:O	2:C3:204:GLY:HA3	1.92	0.68
1:AD:76:THR:HB	1:AD:220:CYS:HB2	1.74	0.68
1:A5:76:THR:HB	1:A5:220:CYS:HB2	1.74	0.68
2:C0:26:SER:O	2:C0:28:GLY:N	2.25	0.68
2:C6:119:ALA:O	2:C6:204:GLY:HA3	1.92	0.68
3:DG:56:ILE:HG13	3:DG:74:PHE:CE1	2.29	0.68
2:C9:223:ASN:HD22	2:C9:223:ASN:H	1.41	0.68
2:CE:223:ASN:HD22	2:CE:223:ASN:H	1.41	0.68
2:CP:223:ASN:H	2:CP:223:ASN:HD22	1.41	0.68
1:AI:57:LEU:HD21	1:AI:195:ILE:HG12	1.76	0.68
1:A9:104:VAL:HG22	1:A9:197:LEU:CD2	2.22	0.68
3:D1:99:GLN:OE1	3:D1:217:ARG:HD2	1.93	0.68
2:CX:223:ASN:HD22	2:CX:223:ASN:H	1.41	0.68
1:AM:57:LEU:HD21	1:AM:195:ILE:HG12	1.76	0.68
2:CL:223:ASN:H	2:CL:223:ASN:HD22	1.41	0.68
1:BD:76:THR:HB	1:BD:220:CYS:HB2	1.74	0.68
2:CY:20:GLY:HA2	2:CY:56:PRO:O	1.94	0.68
2:C0:54:LEU:HD12	2:C0:220:ALA:HB1	1.74	0.68
3:DJ:119:LYS:HG2	3:DJ:147:ASP:OD2	1.93	0.68
2:CC:115:ASN:ND2	3:DN:190:ALA:O	163.21	0.68
2:CJ:212:THR:HG21	3:DA:188:LEU:HD22	1.75	0.68
3:DD:119:LYS:HG2	3:DD:147:ASP:OD2	1.93	0.68
3:DK:119:LYS:HG2	3:DK:147:ASP:OD2	1.93	0.68
3:D5:119:LYS:HG2	3:D5:147:ASP:OD2	1.93	0.68
3:DR:119:LYS:HG2	3:DR:147:ASP:OD2	1.93	0.68
1:AF:88:PHE:HE2	1:AF:146:ILE:HG21	1.58	0.68
1:AK:82:LEU:HD11	1:AK:211:TYR:CD2	2.26	0.68
1:AR:88:PHE:CE2	1:AR:146:ILE:HD13	2.28	0.68
1:AT:88:PHE:CE2	1:AT:146:ILE:HD13	2.28	0.68
1:A2:101:PHE:HD2	1:A2:143:VAL:HG11	1.56	0.68
1:AZ:82:LEU:HD11	1:AZ:211:TYR:CD2	2.26	0.68
1:AQ:164:TRP:HZ2	1:AQ:187:LEU:HD21	1.58	0.68
2:C2:209:VAL:H	2:C2:210:PRO:CD	2.07	0.68
2:C4:208:THR:OG1	2:C4:210:PRO:HD3	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:209:VAL:H	2:CV:210:PRO:CD	2.07	0.68
1:BE:103:TRP:HB2	1:BE:198:THR:CG2	2.23	0.68
1:AT:113:THR:HB	1:AU:240:PRO:O	1.93	0.68
2:CC:58:LEU:HD13	2:CC:94:PHE:CA	2.23	0.68
2:C5:58:LEU:HD13	2:C5:94:PHE:CA	2.23	0.68
1:BG:113:THR:HB	1:BH:240:PRO:O	1.93	0.68
2:CX:20:GLY:HA2	2:CX:56:PRO:O	1.94	0.68
2:C1:58:LEU:HD13	2:C1:94:PHE:CA	2.23	0.68
2:CV:58:LEU:HD13	2:CV:94:PHE:CA	2.23	0.68
1:A9:103:TRP:HB2	1:A9:198:THR:CG2	2.23	0.68
2:CE:20:GLY:HA2	2:CE:56:PRO:O	1.94	0.68
2:C0:58:LEU:HD13	2:C0:94:PHE:CA	2.23	0.68
1:AK:113:THR:HB	1:AL:240:PRO:O	1.93	0.68
1:AS:103:TRP:HB2	1:AS:198:THR:CG2	2.23	0.68
1:BC:113:THR:HB	1:BD:240:PRO:O	1.93	0.68
2:CM:152:TYR:CZ	3:DM:60:PRO:HD3	2.28	0.68
1:AK:76:THR:HB	1:AK:220:CYS:HB2	1.75	0.68
2:C4:152:TYR:CZ	3:D4:60:PRO:HD3	2.28	0.68
2:CB:152:TYR:CZ	3:DB:60:PRO:HD3	2.28	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:D0:56:ILE:HG13	3:D0:74:PHE:CE1	2.29	0.68
3:DE:56:ILE:HG13	3:DE:74:PHE:CE1	2.29	0.68
3:DQ:56:ILE:HG13	3:DQ:74:PHE:CE1	2.29	0.68
1:AD:239:PHE:CD1	3:DD:170:TYR:HD2	2.10	0.68
1:AP:76:THR:HB	1:AP:220:CYS:HB2	1.74	0.68
1:A8:104:VAL:HG22	1:A8:197:LEU:CD2	2.22	0.68
1:AA:57:LEU:HD21	1:AA:195:ILE:HG12	1.76	0.68
1:AD:57:LEU:HD21	1:AD:195:ILE:HG12	1.76	0.68
1:A9:43:LEU:HD23	1:A9:43:LEU:N	2.07	0.68
1:A4:43:LEU:HD23	1:A4:43:LEU:N	2.07	0.68
3:D7:99:GLN:OE1	3:D7:217:ARG:HD2	1.93	0.68
3:DI:99:GLN:OE1	3:DI:217:ARG:HD2	1.93	0.68
2:CI:212:THR:HG21	3:DJ:188:LEU:HD22	49.71	0.68
2:CH:212:THR:HG21	3:DN:188:LEU:HD22	256.02	0.68
2:CC:212:THR:HG21	3:ED:188:LEU:HD22	239.75	0.68
2:CR:212:THR:HG21	3:EE:188:LEU:HD22	1.75	0.68
3:D4:116:THR:CG2	3:D4:191:LEU:HD21	2.21	0.68
2:CD:212:THR:HG21	3:D7:188:LEU:HD22	1.75	0.68
3:DO:119:LYS:HG2	3:DO:147:ASP:OD2	1.93	0.68
3:DQ:119:LYS:HG2	3:DQ:147:ASP:OD2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DW:117:LYS:HB3	3:DW:119:LYS:CE	2.20	0.68
3:D0:119:LYS:HG2	3:D0:147:ASP:OD2	1.93	0.68
1:A8:88:PHE:CE2	1:A8:146:ILE:HD13	2.28	0.68
1:AL:88:PHE:HE2	1:AL:146:ILE:HG21	1.58	0.68
1:AN:88:PHE:CE2	1:AN:146:ILE:HD13	2.28	0.68
1:AU:83:GLU:HG2	1:AU:157:SER:HA	1.76	0.68
1:BB:83:GLU:HG2	1:BB:157:SER:HA	1.76	0.68
1:BI:88:PHE:CE2	1:BI:146:ILE:HD13	2.28	0.68
3:EB:42:ASN:ND2	3:EB:44:ILE:H	1.90	0.68
3:D5:42:ASN:ND2	3:D5:44:ILE:H	1.90	0.68
1:AV:88:PHE:HA	1:AV:207:CYS:HA	1.75	0.68
1:A0:88:PHE:CE2	1:A0:146:ILE:HD13	2.28	0.68
1:AK:164:TRP:HZ2	1:AK:187:LEU:HD21	1.58	0.68
2:CD:208:THR:OG1	2:CD:210:PRO:HD3	1.92	0.68
2:CW:20:GLY:HA2	2:CW:56:PRO:O	1.94	0.68
2:C5:20:GLY:HA2	2:C5:56:PRO:O	1.94	0.68
1:AN:113:THR:HB	1:AO:240:PRO:O	1.93	0.68
1:AZ:103:TRP:HB2	1:AZ:198:THR:CG2	2.23	0.68
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:CM:20:GLY:HA2	2:CM:56:PRO:O	1.94	0.68
2:CS:58:LEU:HD13	2:CS:94:PHE:CA	2.23	0.68
1:AW:113:THR:HB	1:AX:240:PRO:O	1.93	0.68
1:A4:113:THR:HB	1:A5:240:PRO:O	1.93	0.68
1:AY:103:TRP:HB2	1:AY:198:THR:CG2	2.23	0.68
2:CG:152:TYR:CZ	3:DG:60:PRO:HD3	2.28	0.68
2:C5:119:ALA:O	2:C5:204:GLY:HA3	1.92	0.68
2:C1:152:TYR:CZ	3:D1:60:PRO:HD3	2.28	0.68
2:CO:152:TYR:CZ	3:DO:60:PRO:HD3	2.28	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:DP:56:ILE:HG13	3:DP:74:PHE:CE1	2.29	0.68
3:DU:56:ILE:HG13	3:DU:74:PHE:CE1	2.29	0.68
3:EC:56:ILE:HG13	3:EC:74:PHE:CE1	2.29	0.68
3:DC:56:ILE:HG13	3:DC:74:PHE:CE1	2.29	0.68
3:DI:56:ILE:HG13	3:DI:74:PHE:CE1	2.29	0.68
1:AE:239:PHE:CD1	3:DE:170:TYR:HD2	2.10	0.68
2:CZ:20:GLY:HA2	2:CZ:56:PRO:O	1.94	0.68
1:AS:57:LEU:HD21	1:AS:195:ILE:HG12	1.76	0.68
3:DV:99:GLN:OE1	3:DV:217:ARG:HD2	1.93	0.68
1:AE:57:LEU:HD21	1:AE:195:ILE:HG12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:43:LEU:N	1:BH:43:LEU:HD23	2.08	0.68
1:AW:76:THR:HB	1:AW:220:CYS:HB2	1.74	0.68
1:AP:57:LEU:HD21	1:AP:195:ILE:HG12	1.76	0.68
1:BF:57:LEU:HD21	1:BF:195:ILE:HG12	1.76	0.68
3:DX:119:LYS:HG2	3:DX:147:ASP:OD2	1.93	0.68
2:CM:115:ASN:ND2	3:DD:190:ALA:O	163.21	0.68
2:CL:115:ASN:ND2	3:D8:190:ALA:O	115.41	0.68
2:CT:115:ASN:ND2	3:DK:190:ALA:O	2.26	0.68
2:CU:115:ASN:ND2	3:DG:190:ALA:O	252.66	0.68
2:C3:115:ASN:ND2	3:DU:190:ALA:O	2.26	0.68
2:CP:115:ASN:ND2	3:D0:190:ALA:O	91.68	0.68
2:CP:212:THR:HG21	3:D0:188:LEU:HD22	88.57	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
3:DH:19:PRO:O	3:DH:20:ASP:HB2	1.94	0.68
1:A3:88:PHE:CE2	1:A3:146:ILE:HD13	2.28	0.68
3:DZ:42:ASN:ND2	3:DZ:44:ILE:H	1.90	0.68
1:A4:101:PHE:HD2	1:A4:143:VAL:HG11	1.56	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:AZ:83:GLU:HG2	1:AZ:157:SER:HA	1.76	0.68
2:CQ:209:VAL:O	2:CQ:209:VAL:HG12	1.94	0.68
2:CH:209:VAL:HG12	2:CH:209:VAL:O	1.94	0.68
1:A3:103:TRP:HB2	1:A3:198:THR:CG2	2.23	0.68
2:C4:20:GLY:HA2	2:C4:56:PRO:O	1.94	0.68
2:CF:20:GLY:HA2	2:CF:56:PRO:O	1.94	0.68
2:CG:58:LEU:HD13	2:CG:94:PHE:CA	2.23	0.68
2:CO:58:LEU:HD13	2:CO:94:PHE:CA	2.23	0.68
1:A7:103:TRP:HB2	1:A7:198:THR:CG2	2.23	0.68
2:CL:20:GLY:HA2	2:CL:56:PRO:O	1.94	0.68
2:CS:20:GLY:HA2	2:CS:56:PRO:O	1.94	0.68
1:BC:103:TRP:HB2	1:BC:198:THR:CG2	2.24	0.68
1:AM:76:THR:HB	1:AM:220:CYS:HB2	1.75	0.68
2:CC:152:TYR:CZ	3:DC:60:PRO:HD3	2.28	0.68
1:BC:76:THR:HB	1:BC:220:CYS:HB2	1.74	0.68
2:CD:152:TYR:CZ	3:DD:60:PRO:HD3	2.28	0.68
3:EB:56:ILE:HG13	3:EB:74:PHE:CE1	2.29	0.68
1:AN:239:PHE:CD1	3:DB:170:TYR:HD2	213.11	0.68
2:CO:223:ASN:H	2:CO:223:ASN:HD22	1.41	0.68
2:CB:223:ASN:H	2:CB:223:ASN:HD22	1.41	0.68
3:DG:99:GLN:OE1	3:DG:217:ARG:HD2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:57:LEU:HD21	1:AX:195:ILE:HG12	1.76	0.68
1:AY:43:LEU:N	1:AY:43:LEU:HD23	2.07	0.68
1:A1:43:LEU:HD23	1:A1:43:LEU:N	2.07	0.68
1:A3:43:LEU:HD23	1:A3:43:LEU:N	2.07	0.68
1:AE:76:THR:HB	1:AE:220:CYS:HB2	1.74	0.68
2:CH:115:ASN:ND2	3:DS:190:ALA:O	163.21	0.68
2:CO:115:ASN:ND2	3:DR:190:ALA:O	148.62	0.68
2:CX:212:THR:HG21	3:DO:188:LEU:HD22	207.55	0.68
3:DY:119:LYS:HG2	3:DY:147:ASP:OD2	1.93	0.68
2:CG:115:ASN:ND2	3:EB:190:ALA:O	2.26	0.68
2:C4:115:ASN:ND2	3:EC:190:ALA:O	2.26	0.68
1:A8:83:GLU:HG2	1:A8:157:SER:HA	1.76	0.68
1:AB:88:PHE:CE2	1:AB:146:ILE:HD13	2.28	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:AH:88:PHE:HA	1:AH:207:CYS:HA	1.75	0.68
1:AH:83:GLU:HG2	1:AH:157:SER:HA	1.76	0.68
1:AK:88:PHE:HE2	1:AK:146:ILE:HG21	1.58	0.68
1:AM:88:PHE:CE2	1:AM:146:ILE:HD13	2.28	0.68
1:AQ:83:GLU:HG2	1:AQ:157:SER:HA	1.76	0.68
1:A3:83:GLU:HG2	1:A3:157:SER:HA	1.76	0.68
1:A7:83:GLU:HG2	1:A7:157:SER:HA	1.76	0.68
1:BH:83:GLU:HG2	1:BH:157:SER:HA	1.76	0.68
1:A5:83:GLU:HG2	1:A5:157:SER:HA	1.76	0.68
2:CU:209:VAL:H	2:CU:210:PRO:CD	2.07	0.68
2:CC:209:VAL:O	2:CC:209:VAL:HG12	1.94	0.68
2:CG:209:VAL:H	2:CG:210:PRO:CD	2.07	0.68
2:CK:209:VAL:H	2:CK:210:PRO:CD	2.07	0.68
2:CW:209:VAL:H	2:CW:210:PRO:CD	2.07	0.68
2:C7:209:VAL:HG12	2:C7:209:VAL:O	1.94	0.68
1:AG:113:THR:HB	1:AH:240:PRO:O	1.93	0.68
1:AH:240:PRO:O	1:AL:113:THR:HB	282.81	0.68
1:AL:113:THR:HB	1:AM:240:PRO:O	1.93	0.68
1:AR:103:TRP:HB2	1:AR:198:THR:CG2	2.23	0.68
1:BG:103:TRP:HB2	1:BG:198:THR:CG2	2.23	0.68
2:CB:20:GLY:HA2	2:CB:56:PRO:O	1.94	0.68
1:A1:113:THR:HB	1:A2:240:PRO:O	1.93	0.68
1:A1:103:TRP:HB2	1:A1:198:THR:CG2	2.23	0.68
1:AF:103:TRP:HB2	1:AF:198:THR:CG2	2.23	0.68
1:BA:103:TRP:HB2	1:BA:198:THR:CG2	2.23	0.68
2:C6:26:SER:O	2:C6:28:GLY:N	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:152:TYR:CZ	3:EE:60:PRO:HD3	187.66	0.68
2:CZ:152:TYR:CZ	3:DZ:60:PRO:HD3	2.28	0.68
2:CZ:119:ALA:O	2:CZ:204:GLY:HA3	1.92	0.68
1:AR:76:THR:HB	1:AR:220:CYS:HB2	1.74	0.68
2:C3:26:SER:O	2:C3:28:GLY:N	2.25	0.68
3:DJ:56:ILE:HG13	3:DJ:74:PHE:CE1	2.29	0.68
3:DT:56:ILE:HG13	3:DT:74:PHE:CE1	2.29	0.68
3:ED:56:ILE:HG13	3:ED:74:PHE:CE1	2.29	0.68
2:CG:223:ASN:H	2:CG:223:ASN:HD22	1.41	0.68
3:DC:99:GLN:OE1	3:DC:217:ARG:HD2	1.93	0.68
3:DM:99:GLN:OE1	3:DM:217:ARG:HD2	1.93	0.68
1:AB:57:LEU:HD21	1:AB:195:ILE:HG12	1.76	0.68
2:CH:223:ASN:H	2:CH:223:ASN:HD22	1.41	0.68
1:BA:57:LEU:HD21	1:BA:195:ILE:HG12	1.76	0.68
3:D4:99:GLN:OE1	3:D4:217:ARG:HD2	1.93	0.68
3:DY:99:GLN:OE1	3:DY:217:ARG:HD2	1.93	0.68
3:DO:99:GLN:OE1	3:DO:217:ARG:HD2	1.93	0.68
3:DX:99:GLN:OE1	3:DX:217:ARG:HD2	1.93	0.68
2:C3:20:GLY:HA2	2:C3:56:PRO:O	1.94	0.68
2:C5:223:ASN:H	2:C5:223:ASN:HD22	1.41	0.68
3:DA:99:GLN:OE1	3:DA:217:ARG:HD2	1.93	0.68
3:DJ:99:GLN:OE1	3:DJ:217:ARG:HD2	1.93	0.68
3:DQ:99:GLN:OE1	3:DQ:217:ARG:HD2	1.93	0.68
2:CC:212:THR:HG21	3:DN:188:LEU:HD22	157.54	0.68
3:DM:119:LYS:HG2	3:DM:147:ASP:OD2	1.93	0.68
2:CL:212:THR:HG21	3:DK:188:LEU:HD22	116.19	0.68
2:CQ:212:THR:HG21	3:DP:188:LEU:HD22	116.19	0.68
3:D2:119:LYS:HG2	3:D2:147:ASP:OD2	1.93	0.68
2:CN:212:THR:HG21	3:DE:188:LEU:HD22	255.05	0.68
3:DC:119:LYS:HG2	3:DC:147:ASP:OD2	1.93	0.68
2:CF:212:THR:HG21	3:D6:188:LEU:HD22	1.75	0.68
2:CA:49:ASP:HB2	3:DB:161:SER:HB3	1.76	0.68
1:A8:101:PHE:HD2	1:A8:143:VAL:HG11	1.56	0.68
1:AC:83:GLU:HG2	1:AC:157:SER:HA	1.76	0.68
1:AD:88:PHE:HE2	1:AD:146:ILE:HG21	1.58	0.68
1:AL:82:LEU:HD11	1:AL:211:TYR:CD2	2.26	0.68
1:AS:88:PHE:HE2	1:AS:146:ILE:HG21	1.58	0.68
1:BA:83:GLU:HG2	1:BA:157:SER:HA	1.76	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

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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:DJ:42:ASN:ND2	3:DJ:44:ILE:H	1.90	0.68
1:A7:88:PHE:CE2	1:A7:146:ILE:HD13	2.28	0.68
3:D7:19:PRO:O	3:D7:20:ASP:HB2	1.94	0.68
1:AZ:101:PHE:HD2	1:AZ:143:VAL:HG11	1.56	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
2:C7:209:VAL:H	2:C7:210:PRO:CD	2.07	0.68
2:CY:209:VAL:HG12	2:CY:209:VAL:O	1.94	0.68
1:AL:103:TRP:HB2	1:AL:198:THR:CG2	2.23	0.68
1:AP:130:ILE:CD1	1:AP:135:VAL:HG12	2.24	0.68
1:AE:113:THR:HB	1:AF:240:PRO:O	81.61	0.68
1:AF:240:PRO:O	1:AJ:113:THR:HB	1.93	0.68
1:AA:103:TRP:HB2	1:AA:198:THR:CG2	2.23	0.68
2:C8:20:GLY:HA2	2:C8:56:PRO:O	1.94	0.68
2:CK:58:LEU:HD13	2:CK:94:PHE:CA	2.23	0.68
1:A9:113:THR:HB	1:AN:240:PRO:O	150.72	0.68
2:CZ:58:LEU:HD13	2:CZ:94:PHE:CA	2.23	0.68
1:BA:113:THR:HB	1:BB:240:PRO:O	1.93	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:AQ:113:THR:HB	1:AR:240:PRO:O	1.93	0.68
2:CU:152:TYR:CZ	3:EB:60:PRO:HD3	253.62	0.68
2:C4:119:ALA:O	2:C4:204:GLY:HA3	1.92	0.68
2:C0:152:TYR:CZ	3:D0:60:PRO:HD3	2.28	0.68
3:DA:56:ILE:HG13	3:DA:74:PHE:CE1	2.29	0.68
3:EB:56:ILE:O	3:EB:59:LYS:HG2	1.94	0.68
3:DR:56:ILE:HG13	3:DR:74:PHE:CE1	2.29	0.68
3:D1:56:ILE:HG13	3:D1:74:PHE:CE1	2.29	0.68
3:DH:56:ILE:O	3:DH:59:LYS:HG2	1.94	0.68
3:D3:56:ILE:HG13	3:D3:74:PHE:CE1	2.29	0.68
3:D0:56:ILE:O	3:D0:59:LYS:HG2	1.94	0.68
3:EA:56:ILE:HG13	3:EA:74:PHE:CE1	2.29	0.68
3:DW:56:ILE:HG13	3:DW:74:PHE:CE1	2.29	0.68
3:DN:56:ILE:O	3:DN:59:LYS:HG2	1.94	0.68
3:D0:99:GLN:OE1	3:D0:217:ARG:HD2	1.93	0.68
3:DD:99:GLN:OE1	3:DD:217:ARG:HD2	1.93	0.68
1:AK:57:LEU:HD21	1:AK:195:ILE:HG12	1.76	0.68
2:CU:223:ASN:HD22	2:CU:223:ASN:H	1.41	0.68
3:EE:99:GLN:OE1	3:EE:217:ARG:HD2	1.93	0.68
1:AF:57:LEU:HD21	1:AF:195:ILE:HG12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:76:THR:HB	1:A9:220:CYS:HB2	1.74	0.68
1:A6:57:LEU:HD21	1:A6:195:ILE:HG12	1.76	0.68
3:DN:119:LYS:HG2	3:DN:147:ASP:OD2	1.93	0.68
3:DS:119:LYS:HG2	3:DS:147:ASP:OD2	1.93	0.68
2:CJ:212:THR:HG21	3:DM:188:LEU:HD22	231.06	0.68
2:CK:115:ASN:ND2	3:DA:190:ALA:O	277.66	0.68
2:C7:212:THR:HG21	3:DM:188:LEU:HD22	148.97	0.68
3:EE:116:THR:CG2	3:EE:191:LEU:HD21	2.21	0.68
2:CO:212:THR:HG21	3:DP:188:LEU:HD22	1.75	0.68
2:CZ:115:ASN:ND2	3:DQ:190:ALA:O	93.19	0.68
2:C6:115:ASN:ND2	3:DE:190:ALA:O	2.26	0.68
2:CF:115:ASN:ND2	3:DV:190:ALA:O	186.28	0.68
2:CI:49:ASP:HB2	3:DE:161:SER:HB3	120.86	0.68
2:CP:49:ASP:HB2	3:DQ:161:SER:HB3	1.76	0.68
2:CV:49:ASP:HB2	3:DW:161:SER:HB3	1.76	0.68
1:AH:88:PHE:HE2	1:AH:146:ILE:HG21	1.58	0.68
1:AI:83:GLU:HG2	1:AI:157:SER:HA	1.76	0.68
1:AK:83:GLU:HG2	1:AK:157:SER:HA	1.76	0.68
1:AS:83:GLU:HG2	1:AS:157:SER:HA	1.76	0.68
1:AW:88:PHE:HE2	1:AW:146:ILE:HG21	1.58	0.68
1:BC:83:GLU:HG2	1:BC:157:SER:HA	1.76	0.68
3:DQ:19:PRO:O	3:DQ:20:ASP:HB2	1.94	0.68
3:EC:19:PRO:O	3:EC:20:ASP:HB2	1.94	0.68
3:DX:42:ASN:ND2	3:DX:44:ILE:H	1.90	0.68
1:AV:83:GLU:HG2	1:AV:157:SER:HA	1.76	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:AZ:88:PHE:HE2	1:AZ:146:ILE:HG21	1.58	0.68
1:AI:164:TRP:HZ2	1:AI:187:LEU:HD21	1.58	0.68
2:CP:209:VAL:HG12	2:CP:209:VAL:O	1.94	0.68
2:CS:209:VAL:H	2:CS:210:PRO:CD	2.07	0.68
2:CL:209:VAL:HG12	2:CL:209:VAL:O	1.94	0.68
2:CA:209:VAL:O	2:CA:209:VAL:HG12	1.94	0.68
2:C4:209:VAL:O	2:C4:209:VAL:HG12	1.94	0.68
2:CV:209:VAL:HG12	2:CV:209:VAL:O	1.94	0.68
1:A8:240:PRO:O	1:AB:113:THR:HB	223.87	0.68
2:C4:58:LEU:HD13	2:C4:94:PHE:CA	2.23	0.68
1:AE:103:TRP:HB2	1:AE:198:THR:CG2	2.23	0.68
2:CJ:20:GLY:HA2	2:CJ:56:PRO:O	1.94	0.68
2:CR:20:GLY:HA2	2:CR:56:PRO:O	1.94	0.68
2:CV:20:GLY:HA2	2:CV:56:PRO:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:103:TRP:HB2	1:AX:198:THR:CG2	2.23	0.68
2:C2:20:GLY:HA2	2:C2:56:PRO:O	1.94	0.68
1:A5:130:ILE:CD1	1:A5:135:VAL:HG12	2.24	0.68
1:BB:103:TRP:HB2	1:BB:198:THR:CG2	2.23	0.68
2:CQ:120:HIS:CD2	2:CQ:205:PRO:HD2	2.29	0.68
2:CN:120:HIS:CD2	2:CN:205:PRO:HD2	2.29	0.68
2:CS:120:HIS:CD2	2:CS:205:PRO:HD2	2.29	0.68
2:CV:120:HIS:CD2	2:CV:205:PRO:HD2	2.29	0.68
2:C7:152:TYR:CZ	3:D7:60:PRO:HD3	2.28	0.68
1:A7:76:THR:HB	1:A7:220:CYS:HB2	1.74	0.68
2:C6:152:TYR:CZ	3:D6:60:PRO:HD3	2.28	0.68
3:DZ:56:ILE:O	3:DZ:59:LYS:HG2	1.94	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:DJ:56:ILE:O	3:DJ:59:LYS:HG2	1.94	0.68
3:DS:56:ILE:HG13	3:DS:74:PHE:CE1	2.29	0.68
3:DS:56:ILE:O	3:DS:59:LYS:HG2	1.94	0.68
3:DX:56:ILE:HG13	3:DX:74:PHE:CE1	2.29	0.68
3:DN:56:ILE:HG13	3:DN:74:PHE:CE1	2.29	0.68
3:DI:56:ILE:O	3:DI:59:LYS:HG2	1.94	0.68
2:CT:223:ASN:HD22	2:CT:223:ASN:H	1.41	0.68
3:DL:99:GLN:OE1	3:DL:217:ARG:HD2	1.93	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
2:CK:223:ASN:H	2:CK:223:ASN:HD22	1.41	0.68
1:BC:57:LEU:HD21	1:BC:195:ILE:HG12	1.76	0.68
1:AQ:57:LEU:HD21	1:AQ:195:ILE:HG12	1.76	0.68
2:CI:115:ASN:ND2	3:DJ:190:ALA:O	66.43	0.68
2:CW:212:THR:HG21	3:DS:188:LEU:HD22	239.75	0.68
2:CJ:115:ASN:ND2	3:DM:190:ALA:O	235.91	0.68
3:EB:119:LYS:HG2	3:EB:147:ASP:OD2	1.93	0.68
3:DW:116:THR:CG2	3:DW:191:LEU:HD21	2.21	0.68
2:C3:212:THR:HG21	3:DU:188:LEU:HD22	1.75	0.68
2:CE:212:THR:HG21	3:DF:188:LEU:HD22	1.75	0.68
3:DT:116:THR:CG2	3:DT:191:LEU:HD21	2.21	0.68
2:CT:49:ASP:HB2	3:EB:161:SER:HB3	203.83	0.68
2:CX:49:ASP:HB2	3:EA:161:SER:HB3	148.57	0.68
1:AA:83:GLU:HG2	1:AA:157:SER:HA	1.76	0.68
1:AD:83:GLU:HG2	1:AD:157:SER:HA	1.76	0.68
1:AG:88:PHE:HE2	1:AG:146:ILE:HG21	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:AU:88:PHE:CE2	1:AU:146:ILE:HD13	2.28	0.68
1:BG:83:GLU:HG2	1:BG:157:SER:HA	1.76	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:AN:164:TRP:HZ2	1:AN:187:LEU:HD21	1.58	0.68
1:AP:164:TRP:HZ2	1:AP:187:LEU:HD21	1.58	0.68
2:CN:209:VAL:HG12	2:CN:209:VAL:O	1.94	0.68
2:CE:209:VAL:H	2:CE:210:PRO:CD	2.07	0.68
2:C3:209:VAL:H	2:C3:210:PRO:CD	2.07	0.68
2:CK:209:VAL:O	2:CK:209:VAL:HG12	1.94	0.68
2:C2:209:VAL:O	2:C2:209:VAL:HG12	1.94	0.68
2:CA:209:VAL:H	2:CA:210:PRO:CD	2.07	0.68
1:AB:103:TRP:HB2	1:AB:198:THR:CG2	2.23	0.68
1:BD:103:TRP:HB2	1:BD:198:THR:CG2	2.23	0.68
2:CC:20:GLY:HA2	2:CC:56:PRO:O	1.94	0.68
2:CN:20:GLY:HA2	2:CN:56:PRO:O	1.94	0.68
1:AD:130:ILE:CD1	1:AD:135:VAL:HG12	2.24	0.68
2:CU:20:GLY:HA2	2:CU:56:PRO:O	1.94	0.68
1:AR:130:ILE:CD1	1:AR:135:VAL:HG12	2.24	0.68
1:A6:103:TRP:HB2	1:A6:198:THR:CG2	2.23	0.68
2:CO:20:GLY:HA2	2:CO:56:PRO:O	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
1:AI:130:ILE:CD1	1:AI:135:VAL:HG12	2.24	0.68
1:BB:113:THR:HB	1:BC:240:PRO:O	1.93	0.68
2:CE:120:HIS:CD2	2:CE:205:PRO:HD2	2.29	0.68
2:CG:13:ARG:HB3	2:CG:27:GLN:OE1	1.94	0.68
2:C1:119:ALA:O	2:C1:204:GLY:HA3	1.92	0.68
2:CW:120:HIS:CD2	2:CW:205:PRO:HD2	2.29	0.68
3:DR:56:ILE:O	3:DR:59:LYS:HG2	1.94	0.68
3:DO:56:ILE:O	3:DO:59:LYS:HG2	1.94	0.68
3:DW:56:ILE:O	3:DW:59:LYS:HG2	1.94	0.68
3:DM:56:ILE:HG13	3:DM:74:PHE:CE1	2.29	0.68
3:EE:56:ILE:HG13	3:EE:74:PHE:CE1	2.29	0.68
3:DK:99:GLN:OE1	3:DK:217:ARG:HD2	1.93	0.68
3:DU:99:GLN:OE1	3:DU:217:ARG:HD2	1.93	0.68
1:AQ:76:THR:HB	1:AQ:220:CYS:HB2	1.74	0.68
1:AJ:57:LEU:HD21	1:AJ:195:ILE:HG12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:223:ASN:HD22	2:C7:223:ASN:H	1.41	0.68
3:D3:99:GLN:OE1	3:D3:217:ARG:HD2	1.93	0.68
1:BC:110:GLY:H	1:BD:242:ASN:HD22	1.42	0.68
2:CS:223:ASN:H	2:CS:223:ASN:HD22	1.41	0.68
3:D6:99:GLN:OE1	3:D6:217:ARG:HD2	1.93	0.68
1:BD:57:LEU:HD21	1:BD:195:ILE:HG12	1.76	0.68
3:D6:119:LYS:HG2	3:D6:147:ASP:OD2	1.93	0.67
2:CD:49:ASP:HB2	3:DE:161:SER:HB3	1.76	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:CW:49:ASP:HB2	3:EE:161:SER:HB3	192.09	0.67
2:C6:49:ASP:HB2	3:D7:161:SER:HB3	1.76	0.67
2:CZ:49:ASP:HB2	3:D0:161:SER:HB3	1.76	0.67
1:A9:88:PHE:HE2	1:A9:146:ILE:HG21	1.58	0.67
1:AD:82:LEU:HD11	1:AD:211:TYR:CD2	2.26	0.67
1:AR:83:GLU:HG2	1:AR:157:SER:HA	1.76	0.67
1:AX:83:GLU:HG2	1:AX:157:SER:HA	1.76	0.67
3:DB:19:PRO:O	3:DB:20:ASP:HB2	1.94	0.67
1:A1:88:PHE:HE2	1:A1:146:ILE:HG21	1.58	0.67
1:A6:83:GLU:HG2	1:A6:157:SER:HA	1.76	0.67
2:CD:209:VAL:HG12	2:CD:209:VAL:O	1.94	0.67
2:CG:209:VAL:O	2:CG:209:VAL:HG12	1.94	0.67
2:CM:209:VAL:O	2:CM:209:VAL:HG12	1.94	0.67
1:AL:130:ILE:CD1	1:AL:135:VAL:HG12	2.25	0.67
1:AE:130:ILE:CD1	1:AE:135:VAL:HG12	2.24	0.67
1:AJ:113:THR:HB	1:AK:240:PRO:O	283.77	0.67
2:CJ:58:LEU:HD13	2:CJ:94:PHE:CA	2.23	0.67
1:AA:130:ILE:CD1	1:AA:135:VAL:HG12	2.24	0.67
2:CP:58:LEU:HD13	2:CP:94:PHE:CA	2.23	0.67
1:A2:130:ILE:CD1	1:A2:135:VAL:HG12	2.24	0.67
1:A8:113:THR:HB	1:A9:240:PRO:O	1.93	0.67
1:AV:130:ILE:CD1	1:AV:135:VAL:HG12	2.24	0.67
1:AK:103:TRP:HB2	1:AK:198:THR:CG2	2.23	0.67
2:CM:120:HIS:CD2	2:CM:205:PRO:HD2	2.29	0.67
2:CI:13:ARG:HB3	2:CI:27:GLN:OE1	1.94	0.67
2:CJ:13:ARG:HB3	2:CJ:27:GLN:OE1	1.95	0.67
3:DA:56:ILE:O	3:DA:59:LYS:HG2	1.94	0.67
3:D7:56:ILE:HG13	3:D7:74:PHE:CE1	2.29	0.67
3:DD:56:ILE:HG13	3:DD:74:PHE:CE1	2.29	0.67
3:EC:99:GLN:OE1	3:EC:217:ARG:HD2	1.93	0.67
1:AV:57:LEU:HD21	1:AV:195:ILE:HG12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:110:GLY:H	1:AW:242:ASN:HD22	1.43	0.67
1:AI:110:GLY:H	1:AJ:242:ASN:HD22	1.43	0.67
2:C8:115:ASN:ND2	3:D9:190:ALA:O	2.26	0.67
3:DA:66:ASN:HA	3:DA:190:ALA:HB1	1.77	0.67
2:CO:212:THR:HG21	3:DR:188:LEU:HD22	142.25	0.67
2:CG:212:THR:HG21	3:EB:188:LEU:HD22	1.75	0.67
2:CN:212:THR:HG21	3:D2:188:LEU:HD22	1.75	0.67
2:CS:212:THR:HG21	3:EA:188:LEU:HD22	156.66	0.67
3:EC:119:LYS:HG2	3:EC:147:ASP:OD2	1.93	0.67
2:C9:49:ASP:HB2	3:DA:161:SER:HB3	209.33	0.67
2:CW:49:ASP:HB2	3:DX:161:SER:HB3	1.76	0.67
2:CX:49:ASP:HB2	3:DY:161:SER:HB3	1.76	0.67
1:AE:83:GLU:HG2	1:AE:157:SER:HA	1.76	0.67
1:AJ:83:GLU:HG2	1:AJ:157:SER:HA	1.76	0.67
1:AM:88:PHE:HE2	1:AM:146:ILE:HG21	1.58	0.67
1:AT:88:PHE:HE2	1:AT:146:ILE:HG21	1.58	0.67
1:AW:83:GLU:HG2	1:AW:157:SER:HA	1.76	0.67
1:BD:88:PHE:HE2	1:BD:146:ILE:HG21	1.58	0.67
3:DJ:19:PRO:O	3:DJ:20:ASP:HB2	1.94	0.67
1:A5:88:PHE:HA	1:A5:207:CYS:HA	1.74	0.67
1:A2:83:GLU:HG2	1:A2:157:SER:HA	1.76	0.67
3:D3:8:VAL:HB	3:D3:10:GLU:HG2	1.77	0.67
1:AH:164:TRP:HZ2	1:AH:187:LEU:HD21	1.58	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
1:AM:240:PRO:O	1:BD:113:THR:HB	260.55	0.67
2:CA:20:GLY:HA2	2:CA:56:PRO:O	1.94	0.67
1:AJ:130:ILE:CD1	1:AJ:135:VAL:HG12	2.24	0.67
1:A0:240:PRO:O	1:AZ:113:THR:HB	1.93	0.67
1:BA:130:ILE:CD1	1:BA:135:VAL:HG12	2.24	0.67
2:CI:152:TYR:CZ	3:DI:60:PRO:HD3	2.28	0.67
2:CP:120:HIS:CD2	2:CP:205:PRO:HD2	2.29	0.67
2:CH:13:ARG:HB3	2:CH:27:GLN:OE1	1.95	0.67
2:CD:120:HIS:CD2	2:CD:205:PRO:HD2	2.29	0.67
2:CW:152:TYR:CZ	3:DW:60:PRO:HD3	2.28	0.67
2:C3:120:HIS:CD2	2:C3:205:PRO:HD2	2.29	0.67
2:CA:13:ARG:HB3	2:CA:27:GLN:OE1	1.94	0.67
2:CL:13:ARG:HB3	2:CL:27:GLN:OE1	1.95	0.67
3:D5:56:ILE:O	3:D5:59:LYS:HG2	1.94	0.67
3:DQ:56:ILE:O	3:DQ:59:LYS:HG2	1.94	0.67
3:DM:56:ILE:O	3:DM:59:LYS:HG2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:56:ILE:O	3:DL:59:LYS:HG2	1.94	0.67
2:CG:20:GLY:HA2	2:CG:56:PRO:O	1.94	0.67
1:A0:57:LEU:HD21	1:A0:195:ILE:HG12	1.76	0.67
1:AH:110:GLY:H	1:AI:242:ASN:HD22	1.43	0.67
1:AF:110:GLY:H	1:AG:242:ASN:HD22	1.43	0.67
1:AH:57:LEU:HD21	1:AH:195:ILE:HG12	1.76	0.67
2:CH:115:ASN:ND2	3:DN:190:ALA:O	263.48	0.67
2:CL:212:THR:HG21	3:D8:188:LEU:HD22	118.30	0.67
2:CU:115:ASN:ND2	3:D5:190:ALA:O	263.70	0.67
2:CD:212:THR:HG21	3:D4:188:LEU:HD22	142.25	0.67
2:CQ:115:ASN:ND2	3:DP:190:ALA:O	114.98	0.67
2:CE:115:ASN:ND2	3:DC:190:ALA:O	156.00	0.67
2:CS:115:ASN:ND2	3:EA:190:ALA:O	162.81	0.67
1:A9:83:GLU:HG2	1:A9:157:SER:HA	1.76	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
3:D9:19:PRO:O	3:D9:20:ASP:HB2	1.94	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
3:D5:8:VAL:HB	3:D5:10:GLU:HG2	1.77	0.67
1:A5:82:LEU:HD11	1:A5:211:TYR:CD2	2.26	0.67
3:D2:8:VAL:HB	3:D2:10:GLU:HG2	1.77	0.67
1:AY:83:GLU:HG2	1:AY:157:SER:HA	1.76	0.67
1:AA:240:PRO:O	1:AE:113:THR:HB	1.93	0.67
1:BI:130:ILE:CD1	1:BI:135:VAL:HG12	2.24	0.67
2:CI:58:LEU:HD13	2:CI:94:PHE:CA	2.23	0.67
1:AF:130:ILE:CD1	1:AF:135:VAL:HG12	2.24	0.67
1:BB:130:ILE:CD1	1:BB:135:VAL:HG12	2.24	0.67
2:CL:120:HIS:CD2	2:CL:205:PRO:HD2	2.29	0.67
2:C5:120:HIS:CD2	2:C5:205:PRO:HD2	2.29	0.67
2:C4:120:HIS:CD2	2:C4:205:PRO:HD2	2.29	0.67
2:C0:13:ARG:HB3	2:C0:27:GLN:OE1	1.94	0.67
2:CR:13:ARG:HB3	2:CR:27:GLN:OE1	1.95	0.67
2:CS:13:ARG:HB3	2:CS:27:GLN:OE1	1.94	0.67
2:C3:13:ARG:HB3	2:C3:27:GLN:OE1	1.95	0.67
3:DV:56:ILE:HG13	3:DV:74:PHE:CE1	2.29	0.67
3:D6:56:ILE:HG13	3:D6:74: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:DB:99:GLN:OE1	3:DB:217:ARG:HD2	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:99:GLN:OE1	3:DT:217:ARG:HD2	1.93	0.67
1:BF:76:THR:HB	1:BF:220:CYS:HB2	1.74	0.67
2:CY:223:ASN:H	2:CY:223:ASN:HD22	1.41	0.67
1:A8:242:ASN:HD22	1:AB:110:GLY:H	215.85	0.67
1:AP:110:GLY:H	1:AQ:242:ASN:HD22	1.43	0.67
1:AN:57:LEU:HD21	1:AN:195:ILE:HG12	1.76	0.67
2:CR:115:ASN:C	3:DI:119:LYS:HZ3	160.78	0.67
2:CR:115:ASN:ND2	3:EE:190:ALA:O	2.26	0.67
3:EA:119:LYS:HG2	3:EA:147:ASP:OD2	1.93	0.67
2:CK:49:ASP:HB2	3:DL:161:SER:HB3	1.76	0.67
2:C4:49:ASP:HB2	3:D5:161:SER:HB3	1.76	0.67
1:AB:83:GLU:HG2	1:AB:157:SER:HA	1.76	0.67
1:AL:83:GLU:HG2	1:AL:157:SER:HA	1.76	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
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:EB:19:PRO:O	3:EB:20:ASP:HB2	1.94	0.67
3:D4:8:VAL:HB	3:D4:10:GLU:HG2	1.77	0.67
1:A0:83:GLU:HG2	1:A0:157:SER:HA	1.76	0.67
3:D2:19:PRO:O	3:D2:20:ASP:HB2	1.94	0.67
3:DZ:8:VAL:HB	3:DZ:10:GLU:HG2	1.77	0.67
3:D1:19:PRO:O	3:D1:20:ASP:HB2	1.94	0.67
2:CE:209:VAL:O	2:CE:209:VAL:HG12	1.94	0.67
2:C0:209:VAL:O	2:C0:209:VAL:HG12	1.94	0.67
2:C3:209:VAL:HG12	2:C3:209:VAL:O	1.94	0.67
2:CF:209:VAL:O	2:CF:209:VAL:HG12	1.94	0.67
2:C5:209:VAL:HG12	2:C5:209:VAL:O	1.94	0.67
1:AT:103:TRP:HB2	1:AT:198:THR:CG2	2.23	0.67
2:CH:20:GLY:HA2	2:CH:56:PRO:O	1.94	0.67
1:A3:130:ILE:CD1	1:A3:135:VAL:HG12	2.24	0.67
1:AN:130:ILE:CD1	1:AN:135:VAL:HG12	2.24	0.67
1:AZ:130:ILE:CD1	1:AZ:135:VAL:HG12	2.25	0.67
1:A2:113:THR:HB	1:AY:240:PRO:O	1.93	0.67
1:AQ:130:ILE:CD1	1:AQ:135:VAL:HG12	2.24	0.67
1:AU:113:THR:HB	1:AV:240:PRO:O	1.93	0.67
2:CY:58:LEU:HD13	2:CY:94:PHE:CA	2.23	0.67
1:BC:130:ILE:CD1	1:BC:135:VAL:HG12	2.24	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:CI:120:HIS:CD2	2:CI:205:PRO:HD2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:120:HIS:CD2	2:CH:205:PRO:HD2	2.29	0.67
2:CK:120:HIS:CD2	2:CK:205:PRO:HD2	2.29	0.67
2:CK:13:ARG:HB3	2:CK:27:GLN:OE1	1.95	0.67
2:CO:120:HIS:CD2	2:CO:205:PRO:HD2	2.29	0.67
2:CE:13:ARG:HB3	2:CE:27:GLN:OE1	1.94	0.67
3:D9:56:ILE:HG13	3:D9:74:PHE:CE1	2.29	0.67
3:DY:56:ILE:HG13	3:DY:74:PHE:CE1	2.29	0.67
3:DL:56:ILE:HG13	3:DL:74:PHE:CE1	2.29	0.67
1:AA:110:GLY:H	1:AB:242:ASN:HD22	1.43	0.67
1:BA:110:GLY:H	1:BB:242:ASN:HD22	1.43	0.67
1:A7:57:LEU:HD21	1:A7:195:ILE:HG12	1.76	0.67
2:CJ:115:ASN:ND2	3:DA:190:ALA:O	2.26	0.67
2:CM:212:THR:HG21	3:DI:188:LEU:HD22	256.02	0.67
2:CV:212:THR:HG21	3:DB:188:LEU:HD22	1.75	0.67
2:CK:115:ASN:ND2	3:DB:190:ALA:O	263.70	0.67
3:DH:66:ASN:HA	3:DH:190:ALA:HB1	1.77	0.67
3:DK:66:ASN:HA	3:DK:190:ALA:HB1	1.77	0.67
2:C1:212:THR:HG21	3:DO:188:LEU:HD22	1.75	0.67
2:CC:49:ASP:HB2	3:DD:161:SER:HB3	1.76	0.67
2:CE:49:ASP:HB2	3:DF:161:SER:HB3	34.88	0.67
2:CL:49:ASP:HB2	3:DM:161:SER:HB3	1.76	0.67
1:AJ:40:VAL:HB	1:AJ:68:TRP:CZ2	2.30	0.67
1:AS:82:LEU:HD11	1:AS:211:TYR:CD2	2.26	0.67
1:BE:88:PHE:HE2	1:BE:146:ILE:HG21	1.58	0.67
1:BG:82:LEU:HD11	1:BG:211:TYR:CD2	2.26	0.67
3:DD:8:VAL:HB	3:DD:10:GLU:HG2	1.77	0.67
3:DJ:8:VAL:HB	3:DJ:10:GLU:HG2	1.77	0.67
1:BA:210:ARG:NH1	3:DP:14:PHE:CE1	132.87	0.67
1:A0:82:LEU:HD11	1:A0:211:TYR:CD2	2.26	0.67
2:CZ:209:VAL:HG12	2:CZ:209:VAL:O	1.94	0.67
2:CD:209:VAL:H	2:CD:210:PRO:CD	2.07	0.67
2:CL:209:VAL:H	2:CL:210:PRO:CD	2.07	0.67
2:C1:209:VAL:HG12	2:C1:209:VAL:O	1.94	0.67
1:BE:240:PRO:O	1:BI:113:THR:HB	1.94	0.67
2:C0:20:GLY:HA2	2:C0:56:PRO:O	1.94	0.67
1:AY:130:ILE:CD1	1:AY:135:VAL:HG12	2.24	0.67
1:AK:130:ILE:CD1	1:AK:135:VAL:HG12	2.24	0.67
2:CV:152:TYR:CZ	3:DV:60:PRO:HD3	2.28	0.67
2:C4:13:ARG:HB3	2:C4:27:GLN:OE1	1.95	0.67
2:CO:13:ARG:HB3	2:CO:27:GLN:OE1	1.95	0.67
2:CW:13:ARG:HB3	2:CW:27:GLN:OE1	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:13:ARG:HB3	2:CM:27:GLN:OE1	1.95	0.67
1:AL:77:TYR:HD1	1:AL:168:PRO:HA	1.60	0.67
1:AM:77:TYR:HD1	1:AM:168:PRO:HA	1.60	0.67
3:DF:56:ILE:O	3:DF:59:LYS:HG2	1.94	0.67
3:D4:56:ILE:HG13	3:D4:74:PHE:CE1	2.29	0.67
3:D2:56:ILE:HG13	3:D2:74:PHE:CE1	2.29	0.67
3:DB:56:ILE:HG13	3:DB:74:PHE:CE1	2.29	0.67
3:EB:99:GLN:OE1	3:EB:217:ARG:HD2	1.93	0.67
1:AA:242:ASN:HD22	1:AN:110:GLY:H	249.91	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:AZ:57:LEU:HD21	1:AZ:195:ILE:HG12	1.76	0.67
2:CI:212:THR:HG21	3:DX:188:LEU:HD22	1.75	0.67
2:CV:212:THR:HG21	3:DD:188:LEU:HD22	142.25	0.67
3:DD:66:ASN:HA	3:DD:190:ALA:HB1	1.77	0.67
3:D8:66:ASN:HA	3:D8:190:ALA:HB1	1.77	0.67
2:CQ:212:THR:HG21	3:DY:188:LEU:HD22	118.30	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:D3:66:ASN:HA	3:D3:190:ALA:HB1	1.77	0.67
2:CN:115:ASN:ND2	3:D2:190:ALA:O	2.26	0.67
2:CN:115:ASN:ND2	3:DE:190:ALA:O	263.45	0.67
2:CY:213:MET:HE2	2:CY:215:VAL:HG22	1.75	0.67
2:CY:212:THR:HG21	3:DZ:188:LEU:HD22	1.75	0.67
1:AB:40:VAL:HB	1:AB:68:TRP:CZ2	2.30	0.67
1:AI:210:ARG:NH1	3:DK:14:PHE:CE1	271.12	0.67
1:AO:210:ARG:NH1	3:DO:14:PHE:CE1	2.63	0.67
1:BC:210:ARG:NH1	3:DR:14:PHE:CE1	147.85	0.67
3:DC:8:VAL:HB	3:DC:10:GLU:HG2	1.77	0.67
1:AA:210:ARG:NH1	3:DC:14:PHE:CE1	35.87	0.67
3:DC:19:PRO:O	3:DC:20:ASP:HB2	1.94	0.67
3:DP:8:VAL:HB	3:DP:10:GLU:HG2	1.77	0.67
3:DY:8:VAL:HB	3:DY:10:GLU:HG2	1.77	0.67
1:BI:210:ARG:NH1	3:EE:14:PHE:CE1	2.63	0.67
3:EE:19:PRO:O	3:EE:20:ASP:HB2	1.94	0.67
1:AO:164:TRP:HZ2	1:AO:187:LEU:HD21	1.58	0.67
1:A6:40:VAL:HB	1:A6:68:TRP:CZ2	2.30	0.67
2:CZ:209:VAL:H	2:CZ:210:PRO:CD	2.07	0.67
2:CR:209:VAL:HG12	2:CR:209:VAL:O	1.94	0.67
2:CO:209:VAL:HG12	2:CO:209:VAL:O	1.94	0.67
1:BD:130:ILE:CD1	1:BD:135:VAL:HG12	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:58:LEU:HD13	2:CM:94:PHE:CA	2.23	0.67
1:AX:130:ILE:CD1	1:AX:135:VAL:HG12	2.24	0.67
1:A0:103:TRP:HB2	1:A0:198:THR:CG2	2.23	0.67
1:A8:103:TRP:HB2	1:A8:198:THR:CG2	2.23	0.67
2:CQ:58:LEU:HD13	2:CQ:94:PHE:CA	2.23	0.67
1:AW:130:ILE:CD1	1:AW:135:VAL:HG12	2.25	0.67
2:C9:13:ARG:HB3	2:C9:27:GLN:OE1	1.94	0.67
2:CY:120:HIS:CD2	2:CY:205:PRO:HD2	2.29	0.67
2:CC:120:HIS:CD2	2:CC:205:PRO:HD2	2.29	0.67
2:CV:13:ARG:HB3	2:CV:27:GLN:OE1	1.95	0.67
2:CU:13:ARG:HB3	2:CU:27:GLN:OE1	1.95	0.67
3:EC:56:ILE:O	3:EC:59:LYS:HG2	1.94	0.67
1:AK:242:ASN:HD22	1:AO:110:GLY:H	1.43	0.67
1:AO:242:ASN:HD22	1:AR:110:GLY:H	157.34	0.67
1:BG:57:LEU:HD21	1:BG:195:ILE:HG12	1.76	0.67
1:A9:57:LEU:HD21	1:A9:195:ILE:HG12	1.76	0.67
1:AC:110:GLY:H	1:AD:242:ASN:HD22	1.43	0.67
2:CR:223:ASN:H	2:CR:223:ASN:HD22	1.41	0.67
2:C0:223:ASN:H	2:C0:223:ASN:HD22	1.41	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
3:D5:66:ASN:HA	3:D5:190:ALA:HB1	1.77	0.67
2:CU:212:THR:HG21	3:DG:188:LEU:HD22	238.95	0.67
3:D4:119:LYS:HG2	3:D4:147:ASP:OD2	1.93	0.67
2:CX:115:ASN:ND2	3:DO:190:ALA:O	219.59	0.67
3:D1:66:ASN:HA	3:D1:190:ALA:HB1	1.77	0.67
3:D6:66:ASN:HA	3:D6:190:ALA:HB1	1.77	0.67
3:DV:66:ASN:HA	3:DV:190:ALA:HB1	1.77	0.67
2:CI:49:ASP:HB2	3:DJ:161:SER:HB3	1.76	0.67
2:C2:49:ASP:HB2	3:D3:161:SER:HB3	1.76	0.67
1:A9:210:ARG:NH1	3:DA:14:PHE:CE1	237.71	0.67
1:AC:40:VAL:HB	1:AC:68:TRP:CZ2	2.30	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:AO:40:VAL:HB	1:AO:68:TRP:CZ2	2.30	0.67
1:AA:210:ARG:NH1	3:DA:14:PHE:CE1	2.63	0.67
3:DE:8:VAL:HB	3:DE:10:GLU:HG2	1.77	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
1:AM:210:ARG:NH1	3:DM:14:PHE:CE1	2.63	0.67
3:DM:19:PRO:O	3:DM:20:ASP:HB2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DN:19:PRO:O	3:DN:20:ASP:HB2	1.94	0.67
3:DN:8:VAL:HB	3:DN:10:GLU:HG2	1.77	0.67
3:DO:19:PRO:O	3:DO:20:ASP:HB2	1.94	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
1:A4:210:ARG:NH1	3:D5:14:PHE:CE1	2.63	0.67
1:A5:40:VAL:HB	1:A5:68:TRP:CZ2	2.30	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:A9:164:TRP:HZ2	1:A9:187:LEU:HD21	1.58	0.67
1:AL:164:TRP:HZ2	1:AL:187:LEU:HD21	1.58	0.67
3:D8:19:PRO:O	3:D8:20:ASP:HB2	1.94	0.67
2:CI:209:VAL:HG12	2:CI:209:VAL:O	1.94	0.67
1:AG:130:ILE:CD1	1:AG:135:VAL:HG12	2.24	0.67
2:C1:20:GLY:HA2	2:C1:56:PRO:O	1.94	0.67
1:BH:130:ILE:CD1	1:BH:135:VAL:HG12	2.24	0.67
2:CJ:120:HIS:CD2	2:CJ:205:PRO:HD2	2.29	0.67
2:CA:120:HIS:CD2	2:CA:205:PRO:HD2	2.29	0.67
2:CN:13:ARG:HB3	2:CN:27:GLN:OE1	1.95	0.67
2:CQ:13:ARG:HB3	2:CQ:27:GLN:OE1	1.95	0.67
2:CB:13:ARG:HB3	2:CB:27:GLN:OE1	1.95	0.67
1:AK:77:TYR:HD1	1:AK:168:PRO:HA	1.60	0.67
3:DV:56:ILE:O	3:DV:59:LYS:HG2	1.94	0.67
3:D7:56:ILE:O	3:D7:59:LYS:HG2	1.94	0.67
3:DB:56:ILE:O	3:DB:59:LYS:HG2	1.94	0.67
1:AC:57:LEU:HD21	1:AC:195:ILE:HG12	1.76	0.67
1:AL:57:LEU:HD21	1:AL:195:ILE:HG12	1.76	0.67
2:C1:223:ASN:H	2:C1:223:ASN:HD22	1.41	0.67
1:BG:110:GLY:H	1:BH:242:ASN:HD22	1.43	0.67
1:AW:57:LEU:HD21	1:AW:195:ILE:HG12	1.76	0.67
1:A8:110:GLY:H	1:A9:242:ASN:HD22	1.43	0.67
3:DI:66:ASN:HA	3:DI:190:ALA:HB1	1.77	0.67
3:D4:66:ASN:HA	3:D4:190:ALA:HB1	1.77	0.67
3:D2:66:ASN:HA	3:D2:190:ALA:HB1	1.77	0.67
3:DZ:119:LYS:HG2	3:DZ:147:ASP:OD2	1.93	0.67
3:DZ:66:ASN:HA	3:DZ:190:ALA:HB1	1.77	0.67
3:D0:66:ASN:HA	3:D0:190:ALA:HB1	1.77	0.67
2:C4:212:THR:HG21	3:EC:188:LEU:HD22	1.75	0.67
2:CN:49:ASP:HB2	3:DO:161:SER:HB3	1.76	0.67
1:AE:210:ARG:NH1	3:DE:14:PHE:CE1	2.63	0.67
1:AH:40:VAL:HB	1:AH:68:TRP:CZ2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:AD:210:ARG:NH1	3:DD:14:PHE:CE1	2.63	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:EB:8:VAL:HB	3:EB:10:GLU:HG2	1.77	0.67
3:D5:19:PRO:O	3:D5:20:ASP:HB2	1.94	0.67
1:A7:210:ARG:NH1	3:D8:14:PHE:CE1	2.63	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:A0:88:PHE:HE2	1:A0:146:ILE:HG21	1.58	0.67
1:AZ:40:VAL:HB	1:AZ:68:TRP:CZ2	2.30	0.67
3:D8:8:VAL:HB	3:D8:10:GLU:HG2	1.77	0.67
2:CB:209:VAL:O	2:CB:209:VAL:HG12	1.94	0.67
2:CW:209:VAL:O	2:CW:209:VAL:HG12	1.94	0.67
1:A9:130:ILE:CD1	1:A9:135:VAL:HG12	2.24	0.67
2:C5:13:ARG:HB3	2:C5:27:GLN:OE1	1.95	0.67
2:CB:120:HIS:CD2	2:CB:205:PRO:HD2	2.30	0.67
2:CX:13:ARG:HB3	2:CX:27:GLN:OE1	1.94	0.67
2:C7:13:ARG:HB3	2:C7:27:GLN:OE1	1.95	0.67
1:AW:77:TYR:HD1	1:AW:168:PRO:HA	1.60	0.67
1:AV:77:TYR:HD1	1:AV:168:PRO:HA	1.60	0.67
3:D1:56:ILE:O	3:D1:59:LYS:HG2	1.94	0.67
3:DC:56:ILE:O	3:DC:59:LYS:HG2	1.94	0.67
1:AZ:77:TYR:HD1	1:AZ:168:PRO:HA	1.60	0.67
2:CN:223:ASN:HD22	2:CN:223:ASN:H	1.41	0.67
1:BE:242:ASN:HD22	1:BI:110:GLY:H	1.43	0.67
1:AM:110:GLY:H	1:BA:242:ASN:HD22	215.85	0.67
1:A7:77:TYR:HD1	1:A7:168:PRO:HA	1.60	0.67
2:CH:212:THR:HG21	3:DS:188:LEU:HD22	157.54	0.67
3:ED:66:ASN:HA	3:ED:190:ALA:HB1	1.77	0.67
2:CU:212:THR:HG21	3:D5:188:LEU:HD22	255.26	0.67
3:D6:116:THR:CG2	3:D6:191:LEU:HD21	2.21	0.67
2:C3:49:ASP:HB2	3:DZ:161:SER:HB3	1.76	0.67
1:AF:40:VAL:HB	1:AF:68:TRP:CZ2	2.30	0.67
1:AP:83:GLU:HG2	1:AP:157:SER:HA	1.76	0.67
1:AT:210:ARG:NH1	3:DU:14:PHE:CE1	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:88:PHE:HE2	1:AX:146:ILE:HG21	1.58	0.67
1:BE:210:ARG:NH1	3:EA:14:PHE:CE1	2.63	0.67
3:DB:8:VAL:HB	3:DB:10:GLU:HG2	1.77	0.67
3:DD:19:PRO:O	3:DD:20:ASP:HB2	1.94	0.67
1:AG:210:ARG:NH1	3:DI:14:PHE:CE1	35.87	0.67
1:AL:210:ARG:NH1	3:DL:14:PHE:CE1	2.63	0.67
3:DR:8:VAL:HB	3:DR:10:GLU:HG2	1.77	0.67
1:BG:210:ARG:NH1	3:EC:14:PHE:CE1	2.63	0.67
1:BH:88:PHE:HE2	1:BH:146:ILE:HG21	1.58	0.67
1:A4:40:VAL:HB	1:A4:68:TRP:CZ2	2.30	0.67
2:CU:209:VAL:O	2:CU:209:VAL:HG12	1.94	0.67
2:C9:209:VAL:H	2:C9:210:PRO:CD	2.07	0.67
2:CT:209:VAL:O	2:CT:209:VAL:HG12	1.94	0.67
2:CF:209:VAL:H	2:CF:210:PRO:CD	2.07	0.67
2:CM:135:THR:HB	2:CM:139:ALA:HA	1.78	0.67
1:A1:130:ILE:CD1	1:A1:135:VAL:HG12	2.24	0.67
1:A4:130:ILE:CD1	1:A4:135:VAL:HG12	2.24	0.67
2:C6:13:ARG:HB3	2:C6:27:GLN:OE1	1.95	0.67
2:CZ:120:HIS:CD2	2:CZ:205:PRO:HD2	2.29	0.67
2:CR:120:HIS:CD2	2:CR:205:PRO:HD2	2.29	0.67
1:AS:77:TYR:HD1	1:AS:168:PRO:HA	1.60	0.67
3:DE:56:ILE:O	3:DE:59:LYS:HG2	1.94	0.67
1:AJ:110:GLY:H	1:AK:242:ASN:HD22	269.12	0.67
1:BE:57:LEU:HD21	1:BE:195:ILE:HG12	1.76	0.67
1:BH:57:LEU:HD21	1:BH:195:ILE:HG12	1.76	0.67
2:C9:20:GLY:HA2	2:C9:56:PRO:O	1.94	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:AJ:77:TYR:HD1	1:AJ:168:PRO:HA	1.60	0.67
2:C8:212:THR:HG21	3:D9:188:LEU:HD22	1.75	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
2:CM:212:THR:HG21	3:DD:188:LEU:HD22	157.54	0.67
3:D7:66:ASN:HA	3:D7:190:ALA:HB1	1.77	0.67
2:CG:212:THR:HG21	3:D3:188:LEU:HD22	255.26	0.67
2:CA:115:ASN:ND2	3:DW:190:ALA:O	2.26	0.67
3:DW:66:ASN:HA	3:DW:190:ALA:HB1	1.77	0.67
2:CB:49:ASP:HB2	3:DC:161:SER:HB3	1.76	0.67
2:CY:49:ASP:HB2	3:DU:161:SER:HB3	1.76	0.67
1:AA:40:VAL:HB	1:AA:68:TRP:CZ2	2.30	0.67
1:AI:40:VAL:HB	1:AI:68:TRP:CZ2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:40:VAL:HB	1:AL:68:TRP:CZ2	2.30	0.67
1:AM:82:LEU:HD11	1:AM:211:TYR:CD2	2.26	0.67
1:AN:40:VAL:HB	1:AN:68:TRP:CZ2	2.30	0.67
1:BA:88:PHE:HE2	1:BA:146:ILE:HG21	1.58	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:AD:210:ARG:NH1	3:DF:14:PHE:CE1	133.54	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
1:AQ:210:ARG:NH1	3:DQ:14:PHE:CE1	2.63	0.67
1:AU:210:ARG:NH1	3:DV:14:PHE:CE1	2.63	0.67
1:A3:210:ARG:NH1	3:D4:14:PHE:CE1	2.63	0.67
1:AV:40:VAL:HB	1:AV:68:TRP:CZ2	2.30	0.67
1:BH:210:ARG:NH1	3:ED:14:PHE:CE1	2.63	0.67
1:AV:210:ARG:NH1	3:DW:14:PHE:CE1	2.63	0.67
3:EE:8:VAL:HB	3:EE:10:GLU:HG2	1.77	0.67
3:D6:8:VAL:HB	3:D6:10:GLU:HG2	1.77	0.67
1:A7:164:TRP:HZ2	1:A7:187:LEU:HD21	1.58	0.67
2:CT:209:VAL:H	2:CT:210:PRO:CD	2.07	0.67
2:CX:209:VAL:HG12	2:CX:209:VAL:O	1.94	0.67
1:AU:130:ILE:CD1	1:AU:135:VAL:HG12	2.24	0.67
2:CW:152:TYR:CZ	3:ED:60:PRO:HD3	255.43	0.67
2:CF:13:ARG:HB3	2:CF:27:GLN:OE1	1.94	0.67
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
1:AN:77:TYR:HD1	1:AN:168:PRO:HA	1.60	0.67
2:C2:135:THR:HB	2:C2:139:ALA:HA	1.77	0.67
1:BE:77:TYR:HD1	1:BE:168:PRO:HA	1.60	0.67
3:ED:56:ILE:O	3:ED:59:LYS:HG2	1.94	0.67
3:DX:56:ILE:O	3:DX:59:LYS:HG2	1.94	0.67
1:AT:57:LEU:HD21	1:AT:195:ILE:HG12	1.76	0.67
1:A2:57:LEU:HD21	1:A2:195:ILE:HG12	1.76	0.67
2:CG:115:ASN:ND2	3:D3:190:ALA:O	263.70	0.66
3:DZ:116:THR:CG2	3:DZ:191:LEU:HD21	2.21	0.66
2:CP:212:THR:HG21	3:D1:188:LEU:HD22	1.75	0.66
2:CJ:49:ASP:HB2	3:DF:161:SER:HB3	1.76	0.66
2:CR:49:ASP:HB2	3:DS:161:SER:HB3	1.76	0.66
2:C8:49:ASP:HB2	3:D4:161:SER:HB3	1.76	0.66
2:C1:49:ASP:HB2	3:D2:161:SER:HB3	1.76	0.66
1:AB:210:ARG:NH1	3:DD:14:PHE:CE1	35.87	0.66
1:AE:210:ARG:NH1	3:DG:14:PHE:CE1	134.33	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:40:VAL:HB	1:AE:68:TRP:CZ2	2.30	0.66
1:AE:88:PHE:CZ	1:AE:205:GLY:HA3	2.31	0.66
1:AI:88:PHE:CZ	1:AI:205:GLY:HA3	2.30	0.66
1:AN:210:ARG:NH1	3:DN:14:PHE:CE1	2.63	0.66
1:AP:88:PHE:CZ	1:AP:205:GLY:HA3	2.31	0.66
1:AT:88:PHE:CZ	1:AT:205:GLY:HA3	2.31	0.66
1:AU:88:PHE:HE2	1:AU:146:ILE:HG21	1.58	0.66
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:DM:8:VAL:HB	3:DM:10:GLU:HG2	1.77	0.66
1:AS:210:ARG:NH1	3:DT:14:PHE:CE1	2.63	0.66
3:ED:19:PRO:O	3:ED:20:ASP:HB2	1.94	0.66
1:A1:88:PHE:CZ	1:A1:205:GLY:HA3	2.30	0.66
3:D1:8:VAL:HB	3:D1:10:GLU:HG2	1.77	0.66
1:AY:210:ARG:NH1	3:DZ:14:PHE:CE1	2.63	0.66
1:AJ:164:TRP:HZ2	1:AJ:187:LEU:HD21	1.58	0.66
1:A6:210:ARG:NH1	3:D7:14:PHE:CE1	2.63	0.66
2:C9:209:VAL:O	2:C9:209:VAL:HG12	1.94	0.66
2:C6:209:VAL:O	2:C6:209:VAL:HG12	1.94	0.66
2:C8:209:VAL:H	2:C8:210:PRO:CD	2.07	0.66
2:CD:135:THR:HB	2:CD:139:ALA:HA	1.77	0.66
2:C8:135:THR:HB	2:C8:139:ALA:HA	1.78	0.66
1:A8:130:ILE:CD1	1:A8:135:VAL:HG12	2.24	0.66
1:AM:130:ILE:CD1	1:AM:135:VAL:HG12	2.25	0.66
2:CX:120:HIS:CD2	2:CX:205:PRO:HD2	2.29	0.66
2:CU:120:HIS:CD2	2:CU:205:PRO:HD2	2.29	0.66
1:AB:77:TYR:HD1	1:AB:168:PRO:HA	1.60	0.66
1:AG:77:TYR:HD1	1:AG:168:PRO:HA	1.60	0.66
1:AI:77:TYR:HD1	1:AI:168:PRO:HA	1.60	0.66
3:DG:56:ILE:O	3:DG:59:LYS:HG2	1.94	0.66
3:D8:56:ILE:O	3:D8:59:LYS:HG2	1.94	0.66
3:D3:56:ILE:O	3:D3:59:LYS:HG2	1.94	0.66
3:DO:56:ILE:HG13	3:DO:74:PHE:CE1	2.29	0.66
3:EA:56:ILE:O	3:EA:59:LYS:HG2	1.94	0.66
3:EE:56:ILE:O	3:EE:59:LYS:HG2	1.94	0.66
1:AN:110:GLY:H	1:AO:242:ASN:HD22	1.43	0.66
1:A3:110:GLY:H	1:A4:242:ASN:HD22	1.43	0.66
1:AO:57:LEU:HD21	1:AO:195:ILE:HG12	1.76	0.66
1:AT:110:GLY:H	1:AU:242:ASN:HD22	1.43	0.66
3:DO:66:ASN:HA	3:DO:190:ALA:HB1	1.76	0.66
3:DU:66:ASN:HA	3:DU:190:ALA:HB1	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CJ:49:ASP:HB2	3:DK:161:SER:HB3	247.80	0.66
1:AC:88:PHE:CZ	1:AC:205:GLY:HA3	2.30	0.66
1:AF:210:ARG:NH1	3:DH:14:PHE:CE1	35.87	0.66
1:AH:88:PHE:CZ	1:AH:205:GLY:HA3	2.30	0.66
1:AM:83:GLU:HG2	1:AM:157:SER:HA	1.76	0.66
1:AW:210:ARG:NH1	3:DX:14:PHE:CE1	2.63	0.66
1:A8:210:ARG:NH1	3:D9:14:PHE:CE1	2.63	0.66
1:AN:210:ARG:NH1	3:DB:14:PHE:CE1	223.06	0.66
1:AG:210:ARG:NH1	3:DG:14:PHE:CE1	2.63	0.66
1:AJ:210:ARG:NH1	3:DL:14:PHE:CE1	270.48	0.66
3:DT:8:VAL:HB	3:DT:10:GLU:HG2	1.77	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
3:D0:8:VAL:HB	3:D0:10:GLU:HG2	1.77	0.66
2:CN:209:VAL:H	2:CN:210:PRO:CD	2.07	0.66
1:AX:164:TRP:HZ2	1:AX:187:LEU:HD21	1.58	0.66
2:CN:135:THR:HB	2:CN:139:ALA:HA	1.78	0.66
1:AB:130:ILE:CD1	1:AB:135:VAL:HG12	2.25	0.66
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:AC:130:ILE:CD1	1:AC:135:VAL:HG12	2.24	0.66
1:A6:130:ILE:CD1	1:A6:135:VAL:HG12	2.24	0.66
2:CT:120:HIS:CD2	2:CT:205:PRO:HD2	2.29	0.66
2:CT:13:ARG:HB3	2:CT:27:GLN:OE1	1.94	0.66
2:CY:13:ARG:HB3	2:CY:27:GLN:OE1	1.95	0.66
1:AH:77:TYR:HD1	1:AH:168:PRO:HA	1.60	0.66
3:DU:56:ILE:O	3:DU:59:LYS:HG2	1.94	0.66
1:BG:77:TYR:HD1	1:BG:168:PRO:HA	1.60	0.66
1:AY:77:TYR:HD1	1:AY:168:PRO:HA	1.60	0.66
1:A6:77:TYR:HD1	1:A6:168:PRO:HA	1.60	0.66
3:D8:56:ILE:HG13	3:D8:74:PHE:CE1	2.29	0.66
3:DU:83:ALA:O	3:DU:86:HIS:HB3	1.96	0.66
1:AW:110:GLY:H	1:AX:242:ASN:HD22	1.43	0.66
2:CA:223:ASN:H	2:CA:223:ASN:HD22	1.41	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
3:DC:83:ALA:O	3:DC:86:HIS:HB3	1.96	0.66
2:CW:223:ASN:HD22	2:CW:223:ASN:H	1.41	0.66
3:DR:83:ALA:O	3:DR:86:HIS:HB3	1.96	0.66
2:C2:212:THR:HG21	3:DH:188:LEU:HD22	255.26	0.66
2:CD:115:ASN:ND2	3:D4:190:ALA:O	148.62	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:66:ASN:HA	3:DT:190:ALA:HB1	1.77	0.66
2:CD:49:ASP:HB2	3:D9:161:SER:HB3	148.57	0.66
2:CV:49:ASP:HB2	3:ED:161:SER:HB3	233.56	0.66
1:A9:40:VAL:HB	1:A9:68:TRP:CZ2	2.30	0.66
1:AC:121:LEU:HD21	1:AD:206:GLY:HA3	1.78	0.66
1:AD:88:PHE:CZ	1:AD:205:GLY:HA3	2.31	0.66
1:AD:40:VAL:HB	1:AD:68:TRP:CZ2	2.30	0.66
1:AH:209:LEU:HD13	1:AH:210:ARG:H	1.61	0.66
1:AJ:88:PHE:CZ	1:AJ:205:GLY:HA3	2.30	0.66
1:AL:88:PHE:CZ	1:AL:205:GLY:HA3	2.30	0.66
1:AS:88:PHE:CZ	1:AS:205:GLY:HA3	2.30	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:BH:121:LEU:HD21	1:BI:206:GLY:HA3	1.78	0.66
3:D9:8:VAL:HB	3:D9:10:GLU:HG2	1.77	0.66
3:DQ:8:VAL:HB	3:DQ:10:GLU:HG2	1.77	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:A2:40:VAL:HB	1:A2:68:TRP:CZ2	2.30	0.66
1:A1:210:ARG:NH1	3:D2:14:PHE:CE1	2.63	0.66
1:AY:209:LEU:HD13	1:AY:210:ARG:H	1.61	0.66
3:D0:19:PRO:O	3:D0:20:ASP:HB2	1.94	0.66
1:AZ:164:TRP:HZ2	1:AZ:187:LEU:HD21	1.58	0.66
1:A5:187:LEU:CD2	1:A5:188:PRO:HD2	2.25	0.66
1:A5:121:LEU:HD21	1:A6:206:GLY:HA3	1.78	0.66
2:C0:209:VAL:H	2:C0:210:PRO:CD	2.07	0.66
2:CX:209:VAL:H	2:CX:210:PRO:CD	2.07	0.66
1:BG:164:TRP:HZ2	1:BG:187:LEU:HD21	1.58	0.66
1:AT:130:ILE:CD1	1:AT:135:VAL:HG12	2.24	0.66
2:C0:120:HIS:CD2	2:C0:205:PRO:HD2	2.29	0.66
1:AE:77:TYR:HD1	1:AE:168:PRO:HA	1.60	0.66
3:DK:56:ILE:O	3:DK:59:LYS:HG2	1.94	0.66
3:DP:56:ILE:O	3:DP:59:LYS:HG2	1.94	0.66
2:CI:223:ASN:HD22	2:CI:223:ASN:H	1.41	0.66
1:AM:110:GLY:H	1:AN:242:ASN:HD22	1.43	0.66
3:D0:83:ALA:O	3:D0:86:HIS:HB3	1.96	0.66
1:BI:57:LEU:HD21	1:BI:195:ILE:HG12	1.76	0.66
3:D5:83:ALA:O	3:D5:86:HIS:HB3	1.96	0.66
3:D9:116:THR:CG2	3:D9:191:LEU:HD21	2.21	0.66
2:CW:212:THR:HG21	3:DJ:188:LEU:HD22	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:66:ASN:HA	3:DB:190:ALA:HB1	1.77	0.66
2:CM:49:ASP:HB2	3:DN:161:SER:HB3	1.76	0.66
2:CS:49:ASP:HB2	3:DO:161:SER:HB3	120.86	0.66
2:CU:49:ASP:HB2	3:EC:161:SER:HB3	235.74	0.66
2:CQ:49:ASP:HB2	3:DR:161:SER:HB3	1.76	0.66
2:C7:49:ASP:HB2	3:D8:161:SER:HB3	1.76	0.66
1:AC:210:ARG:NH1	3:DE:14:PHE:CE1	35.87	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:AN:209:LEU:HD13	1:AN:210:ARG:H	1.61	0.66
1:AR:210:ARG:NH1	3:DR:14:PHE:CE1	2.63	0.66
1:AR:40:VAL:HB	1:AR:68:TRP:CZ2	2.30	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: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
1:AJ:210:ARG:NH1	3:DJ:14:PHE:CE1	2.63	0.66
3:DK:19:PRO:O	3:DK:20:ASP:HB2	1.94	0.66
3:DR:19:PRO:O	3:DR:20:ASP:HB2	1.94	0.66
3:DW:8:VAL:HB	3:DW:10:GLU:HG2	1.77	0.66
3:DO:42:ASN:O	3:DO:45:ASP:HB2	1.96	0.66
3:DP:42:ASN:O	3:DP:45:ASP:HB2	1.96	0.66
3:EB:42:ASN:O	3:EB:45:ASP:HB2	1.96	0.66
3:DK:42:ASN:O	3:DK:45:ASP:HB2	1.96	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
3:D2:42:ASN:O	3:D2:45:ASP:HB2	1.96	0.66
3:DZ:42:ASN:O	3:DZ:45:ASP:HB2	1.96	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: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
2:CS:209:VAL:O	2:CS:209:VAL:HG12	1.94	0.66
1:AT:187:LEU:CD2	1:AT:188:PRO:HD2	2.25	0.66
2:CO:135:THR:HB	2:CO:139:ALA:HA	1.78	0.66
2:CL:135:THR:HB	2:CL:139:ALA:HA	1.77	0.66
2:CA:58:LEU:HD22	2:CA:93:SER:HB3	1.78	0.66
2:CL:58:LEU:HD22	2:CL:93:SER:HB3	1.78	0.66
2:C6:120:HIS:CD2	2:C6:205:PRO:HD2	2.29	0.66
2:CQ:135:THR:HB	2:CQ:139:ALA:HA	1.77	0.66
3:D4:56:ILE:O	3:D4:59:LYS:HG2	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:77:TYR:HD1	1:BB:168:PRO:HA	1.60	0.66
1:AM:242:ASN:HD22	1:BD:110:GLY:H	247.31	0.66
3:ED:83:ALA:O	3:ED:86:HIS:HB3	1.96	0.66
3:DQ:83:ALA:O	3:DQ:86:HIS:HB3	1.96	0.66
1:A3:57:LEU:HD21	1:A3:195:ILE:HG12	1.76	0.66
3:D7:83:ALA:O	3:D7:86:HIS:HB3	1.96	0.66
3:EE:66:ASN:HA	3:EE:190:ALA:HB1	1.77	0.66
2:CA:115:ASN:C	3:DW:119:LYS:HZ3	1.98	0.66
2:CS:49:ASP:HB2	3:DT:161:SER:HB3	1.76	0.66
1:A9:121:LEU:HD21	1:AN:206:GLY:HA3	160.35	0.66
1:AB:88:PHE:CZ	1:AB:205:GLY:HA3	2.30	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:AL:121:LEU:HD11	1:AM:206:GLY:N	2.11	0.66
1:AL:210:ARG:NH1	3:DN:14:PHE:CE1	35.87	0.66
1:AM:121:LEU:HD21	1:AN:206:GLY:HA3	1.78	0.66
1:AM:40:VAL:HB	1:AM:68:TRP:CZ2	2.30	0.66
1:AP:121:LEU:HD11	1:AQ:206:GLY:N	2.11	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:AM:206:GLY:HA3	1:BD:121:LEU:HD21	250.02	0.66
1:BE:206:GLY:N	1:BI:121:LEU:HD11	2.11	0.66
1:AC:210:ARG:NH1	3:DC:14:PHE:CE1	2.63	0.66
1:AF:210:ARG:NH1	3:DF:14:PHE:CE1	2.63	0.66
3:DG:8:VAL:HB	3:DG:10:GLU:HG2	1.77	0.66
1:AI:210:ARG:NH1	3:DI:14:PHE:CE1	2.63	0.66
3:DV:8:VAL:HB	3:DV:10:GLU:HG2	1.77	0.66
3:DS:42:ASN:O	3:DS:45:ASP:HB2	1.96	0.66
3:DA:42:ASN:O	3:DA:45:ASP:HB2	1.96	0.66
1:A7:40:VAL:HB	1:A7:68:TRP:CZ2	2.30	0.66
3:D4:19:PRO:O	3:D4:20:ASP:HB2	1.94	0.66
1:BH:209:LEU:HD13	1:BH:210:ARG:H	1.61	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
1:A0:88:PHE:CZ	1:A0:205:GLY:HA3	2.31	0.66
1:AY:121:LEU:HD21	1:AZ:206:GLY:HA3	1.78	0.66
1:A6:164:TRP:HZ2	1:A6:187:LEU:HD21	1.58	0.66
1:AA:187:LEU:CD2	1:AA:188:PRO:HD2	2.25	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	1.77	0.66
2:CW:58:LEU:HD22	2:CW:93:SER:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C5:58:LEU:HD22	2:C5:93:SER:HB3	1.78	0.66
1:BG:130:ILE:CD1	1:BG:135:VAL:HG12	2.24	0.66
2:CO:58:LEU:HD22	2:CO:93:SER:HB3	1.78	0.66
1:AH:130:ILE:CD1	1:AH:135:VAL:HG12	2.25	0.66
2:C9:120:HIS:CD2	2:C9:205:PRO:HD2	2.29	0.66
2:CC:13:ARG:HB3	2:CC:27:GLN:OE1	1.95	0.66
1:AC:77:TYR:HD1	1:AC:168:PRO:HA	1.60	0.66
1:AR:77:TYR:HD1	1:AR:168:PRO:HA	1.60	0.66
2:C1:135:THR:HB	2:C1:139:ALA:HA	1.78	0.66
2:CU:135:THR:HB	2:CU:139:ALA:HA	1.77	0.66
1:AQ:77:TYR:HD1	1:AQ:168:PRO:HA	1.60	0.66
3:DG:83:ALA:O	3:DG:86:HIS:HB3	1.96	0.66
3:DO:83:ALA:O	3:DO:86:HIS:HB3	1.96	0.66
2:CT:65:LYS:HB2	3:DK:135:ARG:HH21	1.61	0.66
3:EA:83:ALA:O	3:EA:86:HIS:HB3	1.96	0.66
3:DV:83:ALA:O	3:DV:86:HIS:HB3	1.96	0.66
1:BH:77:TYR:HD1	1:BH:168:PRO:HA	1.60	0.66
3:D3:83:ALA:O	3:D3:86:HIS:HB3	1.96	0.66
1:A1:110:GLY:H	1:A2:242:ASN:HD22	1.43	0.66
3:DX:83:ALA:O	3:DX:86:HIS:HB3	1.96	0.66
1:BH:110:GLY:H	1:BI:242:ASN:HD22	1.43	0.66
1:AQ:110:GLY:H	1:AR:242:ASN:HD22	1.42	0.66
1:AA:77:TYR:HD1	1:AA:168:PRO:HA	1.60	0.66
2:C2:223:ASN:HD22	2:C2:223:ASN:H	1.41	0.66
1:AY:57:LEU:HD21	1:AY:195:ILE:HG12	1.76	0.66
1:AX:77:TYR:HD1	1:AX:168:PRO:HA	1.60	0.66
1:BF:110:GLY:H	1:BG:242:ASN:HD22	1.43	0.66
3:DB:83:ALA:O	3:DB:86:HIS:HB3	1.96	0.66
3:DJ:83:ALA:O	3:DJ:86:HIS:HB3	1.96	0.66
3:DN:83:ALA:O	3:DN:86:HIS:HB3	1.96	0.66
3:DM:66:ASN:HA	3:DM:190:ALA:HB1	1.77	0.66
3:DG:66:ASN:HA	3:DG:190:ALA:HB1	1.77	0.66
2:CG:49:ASP:HB2	3:DH:161:SER:HB3	1.76	0.66
2:CN:49:ASP:HB2	3:DJ:161:SER:HB3	230.28	0.66
2:CE:49:ASP:HB2	3:DA:161:SER:HB3	1.76	0.66
2:C5:49:ASP:HB2	3:D6:161:SER:HB3	1.76	0.66
1:AC:121:LEU:HD11	1:AD:206:GLY:N	2.11	0.66
1:AC:209:LEU:HD13	1:AC:210:ARG:H	1.61	0.66
1:AE:121:LEU:HD11	1:AF:206:GLY:N	137.87	0.66
1:AH:210:ARG:NH1	3:DJ:14:PHE:CE1	35.87	0.66
1:AH:121:LEU:HD21	1:AI:206:GLY:HA3	1.78	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:AK:210:ARG:NH1	3:DM:14:PHE:CE1	35.87	0.66
1:AH:206:GLY:HA3	1:AL:121:LEU:HD21	293.33	0.66
1:AK:121:LEU:HD21	1:AL:206:GLY:HA3	1.78	0.66
1:AN:88:PHE:CZ	1:AN:205:GLY:HA3	2.31	0.66
1:AO:209:LEU:HD13	1:AO:210:ARG:H	1.61	0.66
1:AQ:40:VAL:HB	1:AQ:68:TRP:CZ2	2.30	0.66
1:AW:40:VAL:HB	1:AW:68:TRP:CZ2	2.30	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:AB:210:ARG:NH1	3:DB:14:PHE:CE1	2.63	0.66
3:DH:8:VAL:HB	3:DH:10:GLU:HG2	1.77	0.66
3:DT:19:PRO:O	3:DT:20:ASP:HB2	1.94	0.66
1:AX:210:ARG:NH1	3:DY:14:PHE:CE1	2.63	0.66
3:DG:42:ASN:O	3:DG:45:ASP:HB2	1.96	0.66
3:D4:42:ASN:O	3:D4:45:ASP:HB2	1.96	0.66
3:DY:42:ASN:O	3:DY:45:ASP:HB2	1.96	0.66
3:DQ:42:ASN:O	3:DQ:45:ASP:HB2	1.96	0.66
1:AV:88:PHE:CZ	1:AV:205:GLY:HA3	2.30	0.66
1:AG:164:TRP:HZ2	1:AG:187:LEU:HD21	1.58	0.66
1:AR:187:LEU:CD2	1:AR:188:PRO:HD2	2.25	0.66
2:CJ:209:VAL:H	2:CJ:210:PRO:CD	2.07	0.66
2:C8:209:VAL:HG12	2:C8:209:VAL:O	1.94	0.66
2:CD:58:LEU:HD22	2:CD:93:SER:HB3	1.78	0.66
2:CM:58:LEU:HD22	2:CM:93:SER:HB3	1.78	0.66
2:CR:58:LEU:HD22	2:CR:93:SER:HB3	1.78	0.66
2:CD:13:ARG:HB3	2:CD:27:GLN:OE1	1.94	0.66
1:BI:77:TYR:HD1	1:BI:168:PRO:HA	1.60	0.66
1:A4:77:TYR:HD1	1:A4:168:PRO:HA	1.60	0.66
1:AU:77:TYR:HD1	1:AU:168:PRO:HA	1.60	0.66
3:DT:56:ILE:O	3:DT:59:LYS:HG2	1.94	0.66
1:AH:242:ASN:HD22	1:AL:110:GLY:H	267.35	0.66
3:DE:83:ALA:O	3:DE:86:HIS:HB3	1.96	0.66
2:CB:65:LYS:HB2	3:DF:135:ARG:HH21	142.82	0.66
3:EC:83:ALA:O	3:EC:86:HIS:HB3	1.96	0.66
3:D4:83:ALA:O	3:D4:86:HIS:HB3	1.96	0.66
1:A4:110:GLY:H	1:A5:242:ASN:HD22	1.43	0.66
1:AT:242:ASN:HD22	1:AX:110:GLY:H	1.43	0.66
2:CM:65:LYS:HB2	3:DI:135:ARG:HH21	265.45	0.66
3:DY:66:ASN:HA	3:DY:190:ALA:HB1	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:116:THR:CG2	3:DV:191:LEU:HD21	2.21	0.66
2:CT:49:ASP:HB2	3:DP:161:SER:HB3	1.76	0.66
2:C0:49:ASP:HB2	3:D1:161:SER:HB3	1.76	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:AA:206:GLY:N	1:AN:121:LEU:HD11	266.97	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:AL:209:LEU:HD13	1:AL:210:ARG:H	1.61	0.66
1:BD:210:ARG:NH1	3:DS:14:PHE:CE1	151.04	0.66
1:BD:40:VAL:HB	1:BD:68:TRP:CZ2	2.30	0.66
3:DU:8:VAL:HB	3:DU:10:GLU:HG2	1.77	0.66
3:EA:8:VAL:HB	3:EA:10:GLU:HG2	1.77	0.66
3:EA:19:PRO:O	3:EA:20:ASP:HB2	1.94	0.66
1:BF:210:ARG:NH1	3:EB:14:PHE:CE1	2.63	0.66
3:ED:8:VAL:HB	3:ED:10:GLU:HG2	1.77	0.66
3:DM:42:ASN:O	3:DM:45:ASP:HB2	1.96	0.66
3:DX:42:ASN:O	3:DX:45:ASP:HB2	1.96	0.66
3:DB:42:ASN:O	3:DB:45:ASP:HB2	1.96	0.66
3:DI:42:ASN:O	3:DI:45:ASP:HB2	1.96	0.66
3:DT:42:ASN:O	3:DT:45:ASP:HB2	1.96	0.66
3:D5:42:ASN:O	3:D5:45:ASP:HB2	1.96	0.66
3:DJ:42:ASN:O	3:DJ:45:ASP:HB2	1.96	0.66
1:A0:206:GLY:HA3	1:AZ:121:LEU:HD21	1.78	0.66
1:A2:209:LEU:HD13	1:A2:210:ARG:H	1.61	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:A1:164:TRP:HZ2	1:A1:187:LEU:HD21	1.58	0.66
2:CC:135:THR:HB	2:CC:139:ALA:HA	1.78	0.66
2:C3:58:LEU:HD22	2:C3:93:SER:HB3	1.78	0.66
2:C8:120:HIS:CD2	2:C8:205:PRO:HD2	2.29	0.66
1:AG:78:PHE:O	1:AG:167:VAL:HB	1.96	0.66
1:AL:78:PHE:O	1:AL:167:VAL:HB	1.96	0.66
1:AD:77:TYR:HD1	1:AD:168:PRO:HA	1.60	0.66
1:A7:78:PHE:O	1:A7:167:VAL:HB	1.96	0.66
1:AT:77:TYR:HD1	1:AT:168:PRO:HA	1.60	0.66
2:CB:65:LYS:HB2	3:DT:135:ARG:HH21	265.45	0.66
2:CS:65:LYS:HB2	3:EA:135:ARG:HH21	163.06	0.66
2:C7:65:LYS:HB2	3:DM:135:ARG:HH21	153.35	0.66
2:CO:65:LYS:HB2	3:DP:135:ARG:HH21	1.61	0.66
2:CZ:223:ASN:H	2:CZ:223:ASN:HD22	1.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:223:ASN:H	2:C3:223:ASN:HD22	1.41	0.66
3:DJ:66:ASN:HA	3:DJ:190:ALA:HB1	1.77	0.66
3:DQ:66:ASN:HA	3:DQ:190:ALA:HB1	1.77	0.66
3:DF:66:ASN:HA	3:DF:190:ALA:HB1	1.77	0.66
3:EC:66:ASN:HA	3:EC:190:ALA:HB1	1.77	0.66
2:CO:49:ASP:HB2	3:DP:161:SER:HB3	34.88	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:AK:209:LEU:HD13	1:AK:210:ARG:H	1.61	0.66
1:AN:83:GLU:HG2	1:AN:157:SER:HA	1.76	0.66
1:AO:206:GLY:N	1:AR:121:LEU:HD11	139.92	0.66
1:AP:206:GLY:HA3	1:AS:121:LEU:HD21	1.78	0.66
1:AU:88:PHE:CZ	1:AU:205:GLY:HA3	2.30	0.66
1:AW:88:PHE:CZ	1:AW:205:GLY:HA3	2.31	0.66
1:BE:206:GLY:HA3	1:BI:121:LEU:HD21	1.78	0.66
1:BI:82:LEU:HD11	1:BI:211:TYR:CD2	2.26	0.66
3:DA:8:VAL:HB	3:DA:10:GLU:HG2	1.77	0.66
3:DL:8:VAL:HB	3:DL:10:GLU:HG2	1.77	0.66
1:AM:210:ARG:NH1	3:DO:14:PHE:CE1	35.87	0.66
3:EE:42:ASN:O	3:EE:45:ASP:HB2	1.96	0.66
3:DW:42:ASN:O	3:DW:45:ASP:HB2	1.96	0.66
1:A3:88:PHE:CZ	1:A3:205:GLY:HA3	2.30	0.66
3:DV:42:ASN:O	3:DV:45:ASP:HB2	1.96	0.66
1:AU:121:LEU:HD21	1:AV:206:GLY:HA3	1.78	0.66
1:BG:121:LEU:HD11	1:BH:206:GLY:N	2.11	0.66
1:A2:210:ARG:NH1	3:D3:14:PHE:CE1	2.63	0.66
1:AZ:209:LEU:HD13	1:AZ:210:ARG:H	1.61	0.66
1:AJ:187:LEU:CD2	1:AJ:188:PRO:HD2	2.25	0.66
2:CV:135:THR:HB	2:CV:139:ALA:HA	1.78	0.66
2:C4:135:THR:HB	2:C4:139:ALA:HA	1.78	0.66
2:CB:58:LEU:HD22	2:CB:93:SER:HB3	1.78	0.66
2:CI:58:LEU:HD22	2:CI:93:SER:HB3	1.78	0.66
2:CV:58:LEU:HD22	2:CV:93:SER:HB3	1.78	0.66
1:A7:130:ILE:CD1	1:A7:135:VAL:HG12	2.25	0.66
2:CS:58:LEU:HD22	2:CS:93:SER:HB3	1.78	0.66
2:CP:13:ARG:HB3	2:CP:27:GLN:OE1	1.95	0.66
2:C7:120:HIS:CD2	2:C7:205:PRO:HD2	2.29	0.66
1:AF:77:TYR:HD1	1:AF:168:PRO:HA	1.60	0.66
1:BG:78:PHE:O	1:BG:167:VAL:HB	1.96	0.66
2:C9:135:THR:HB	2:C9:139:ALA:HA	1.77	0.66
3:DA:83:ALA:O	3:DA:86:HIS:HB3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:83:ALA:O	3:DH:86:HIS:HB3	1.96	0.66
2:C4:223:ASN:HD22	2:C4:223:ASN:H	1.41	0.66
1:A8:57:LEU:HD21	1:A8:195:ILE:HG12	1.76	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
2:CA:65:LYS:HB2	3:DL:135:ARG:HH21	264.71	0.66
2:CA:65:LYS:HB2	3:DW:135:ARG:HH21	1.61	0.66
2:C5:65:LYS:HB2	3:DG:135:ARG:HH21	1.61	0.66
3:D9:66:ASN:HA	3:D9:190:ALA:HB1	1.77	0.66
2:CO:49:ASP:HB2	3:DK:161:SER:HB3	1.76	0.66
1:AC:206:GLY:HA3	1:AG:121:LEU:HD21	190.56	0.66
1:AF:121:LEU:HD11	1:AG:206:GLY:N	2.11	0.66
1:AI:209:LEU:HD13	1:AI:210:ARG:H	1.61	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:AA:206:GLY:HA3	1:AN:121:LEU:HD21	265.65	0.66
1:AP:82:LEU:HD11	1:AP:211:TYR:CD2	2.26	0.66
1:AR:88:PHE:CZ	1:AR:205:GLY:HA3	2.30	0.66
1:AT:121:LEU:HD11	1:AU:206:GLY:N	2.11	0.66
1:BC:121:LEU:HD21	1:BD:206:GLY:HA3	1.78	0.66
1:BE:121:LEU:HD11	1:BF:206:GLY:N	2.11	0.66
1:BE:88:PHE:CZ	1:BE:205:GLY:HA3	2.30	0.66
1:BG:209:LEU:HD13	1:BG:210:ARG:H	1.61	0.66
1:AP:210:ARG:NH1	3:DP:14:PHE:CE1	2.63	0.66
1:BB:210:ARG:NH1	3:DQ:14:PHE:CE1	135.96	0.66
3:DN:42:ASN:O	3:DN:45:ASP:HB2	1.96	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
1:A3:121:LEU:HD11	1:A4:206:GLY:N	2.11	0.66
1:A0:210:ARG:NH1	3:D1:14:PHE:CE1	2.63	0.66
3:DZ:19:PRO:O	3:DZ:20:ASP:HB2	1.94	0.66
1:AZ:88:PHE:CZ	1:AZ:205:GLY:HA3	2.31	0.66
1:AG:187:LEU:CD2	1:AG:188:PRO:HD2	2.25	0.66
1:AR:164:TRP:HZ2	1:AR:187:LEU:HD21	1.58	0.66
2:CJ:209:VAL:HG12	2:CJ:209:VAL:O	1.94	0.66
2:C7:135:THR:HB	2:C7:139:ALA:HA	1.77	0.66
2:CJ:135:THR:HB	2:CJ:139:ALA:HA	1.78	0.66
2:C9:58:LEU:HD22	2:C9:93:SER:HB3	1.78	0.66
2:CN:58:LEU:HD22	2:CN:93:SER:HB3	1.78	0.66
1:AO:130:ILE:CD1	1:AO:135:VAL:HG12	2.24	0.66
2:CP:135:THR:HB	2:CP:139:ALA:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:78:PHE:O	1:AD:167:VAL:HB	1.96	0.66
1:BE:78:PHE:O	1:BE:167:VAL:HB	1.96	0.66
1:AT:78:PHE:O	1:AT:167:VAL:HB	1.96	0.66
2:C3:135:THR:HB	2:C3:139:ALA:HA	1.78	0.66
1:AB:110:GLY:H	1:AC:242:ASN:HD22	1.43	0.66
3:DI:83:ALA:O	3:DI:86:HIS:HB3	1.96	0.66
3:DS:83:ALA:O	3:DS:86:HIS:HB3	1.96	0.66
3:D1:83:ALA:O	3:D1:86:HIS:HB3	1.96	0.66
1:AP:242:ASN:HD22	1:AS:110:GLY:H	1.43	0.66
1:AU:57:LEU:HD21	1:AU:195:ILE:HG12	1.76	0.66
2:C6:65:LYS:HB2	3:DE:135:ARG:HH21	1.61	0.66
3:DY:83:ALA:O	3:DY:86:HIS:HB3	1.96	0.66
1:A3:77:TYR:HD1	1:A3:168:PRO:HA	1.60	0.66
2:C8:223:ASN:H	2:C8:223:ASN:HD22	1.41	0.66
1:AR:57:LEU:HD21	1:AR:195:ILE:HG12	1.76	0.66
3:DE:66:ASN:HA	3:DE:190:ALA:HB1	1.77	0.66
2:CU:49:ASP:HB2	3:DV:161:SER:HB3	1.76	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:AF:88:PHE:CZ	1:AF:205:GLY:HA3	2.30	0.66
1:AG:121:LEU:HD21	1:AH:206:GLY:HA3	1.78	0.66
1:AM:88:PHE:CZ	1:AM:205:GLY:HA3	2.31	0.66
1:AO:88:PHE:CZ	1:AO:205:GLY:HA3	2.31	0.66
1:AO:206:GLY:HA3	1:AR:121:LEU:HD21	137.52	0.66
1:AP:209:LEU:HD13	1:AP:210:ARG:H	1.61	0.66
1:AP:206:GLY:N	1:AS:121:LEU:HD11	2.11	0.66
1:AT:206:GLY:N	1:AX:121:LEU:HD11	2.11	0.66
1:AM:206:GLY:N	1:BD:121:LEU:HD11	251.93	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
3:DF:42:ASN:O	3:DF:45:ASP:HB2	1.96	0.66
1:A4:121:LEU:HD21	1:A5:206:GLY:HA3	1.78	0.66
1:A1:121:LEU:HD11	1:A2:206:GLY:N	2.11	0.66
1:AF:187:LEU:CD2	1:AF:188:PRO:HD2	2.25	0.66
1:A6:88:PHE:CZ	1:A6:205:GLY:HA3	2.31	0.66
2:CF:135:THR:HB	2:CF:139:ALA:HA	1.78	0.66
2:CH:58:LEU:HD22	2:CH:93:SER:HB3	1.78	0.66
2:CW:135:THR:HB	2:CW:139:ALA:HA	1.78	0.66
1:BB:78:PHE:O	1:BB:167:VAL:HB	1.96	0.66
1:BD:78:PHE:O	1:BD:167:VAL:HB	1.96	0.66
1:AB:78:PHE:O	1:AB:167:VAL:HB	1.96	0.66

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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	0.66
1:AW:78:PHE:O	1:AW:167:VAL:HB	1.96	0.66
1:A9:110:GLY:H	1:AN:242:ASN:HD22	139.05	0.66
3:DL:83:ALA:O	3:DL:86:HIS:HB3	1.96	0.66
2:CP:65:LYS:HB2	3:D0:135:ARG:HH21	90.79	0.66
1:BC:77:TYR:HD1	1:BC:168:PRO:HA	1.60	0.66
3:DX:66:ASN:HA	3:DX:190:ALA:HB1	1.77	0.65
3:EB:66:ASN:HA	3:EB:190:ALA:HB1	1.77	0.65
1:AA:209:LEU:HD13	1:AA:210:ARG:H	1.61	0.65
1:AD:121:LEU:HD11	1:AE:206:GLY:N	2.11	0.65
1:AE:121:LEU:HD21	1:AF:206:GLY:HA3	135.32	0.65
1:AJ:121:LEU:HD11	1:AK:206:GLY:N	294.19	0.65
1:AH:206:GLY:N	1:AL:121:LEU:HD11	296.04	0.65
1:AL:121:LEU:HD21	1:AM:206:GLY:HA3	1.78	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:88:PHE:CZ	1:AX:205:GLY:HA3	2.30	0.65
1:AM:121:LEU:HD21	1:BA:206:GLY:HA3	228.43	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
3:DS:8:VAL:HB	3:DS:10:GLU:HG2	1.77	0.65
3:DV:19:PRO:O	3:DV:20:ASP:HB2	1.94	0.65
3:D8:42:ASN:O	3:D8:45:ASP:HB2	1.96	0.65
1:A7:88:PHE:CZ	1:A7:205:GLY:HA3	2.31	0.65
2:CA:135:THR:HB	2:CA:139:ALA:HA	1.78	0.65
2:CI:135:THR:HB	2:CI:139:ALA:HA	1.78	0.65
2:CK:58:LEU:HD22	2:CK:93:SER:HB3	1.78	0.65
2:CP:58:LEU:HD22	2:CP:93:SER:HB3	1.78	0.65
1:A0:130:ILE:CD1	1:A0:135:VAL:HG12	2.24	0.65
1:AL:59:PRO:O	1:AL:72:LEU:HD13	1.97	0.65
2:CZ:13:ARG:HB3	2:CZ:27:GLN:OE1	1.95	0.65
1:A4:59:PRO:O	1:A4:72:LEU:HD13	1.97	0.65
1:BA:59:PRO:O	1:BA:72:LEU:HD13	1.97	0.65
1:AX:59:PRO:O	1:AX:72:LEU:HD13	1.97	0.65
1:AC:78:PHE:O	1:AC:167:VAL:HB	1.96	0.65
1:AI:78:PHE:O	1:AI:167:VAL:HB	1.96	0.65
1:AO:78:PHE:O	1:AO:167:VAL:HB	1.96	0.65
1:AH:78:PHE:O	1:AH:167:VAL:HB	1.96	0.65
1:AP:78:PHE:O	1:AP:167:VAL:HB	1.96	0.65
1:BA:78:PHE:O	1:BA:167:VAL:HB	1.96	0.65
1:AX:78:PHE:O	1:AX:167:VAL:HB	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:78:PHE:O	1:A0:167:VAL:HB	1.96	0.65
1:A2:77:TYR:HD1	1:A2:168:PRO:HA	1.60	0.65
2:C5:135:THR:HB	2:C5:139:ALA:HA	1.77	0.65
1:A5:77:TYR:HD1	1:A5:168:PRO:HA	1.60	0.65
1:AC:242:ASN:HD22	1:AG:110:GLY:H	194.48	0.65
1:AG:110:GLY:H	1:AH:242:ASN:HD22	1.43	0.65
3:DK:83:ALA:O	3:DK:86:HIS:HB3	1.96	0.65
3:DM:83:ALA:O	3:DM:86:HIS:HB3	1.96	0.65
3:DF:83:ALA:O	3:DF:86:HIS:HB3	1.96	0.65
2:CS:65:LYS:HB2	3:DC:135:ARG:HH21	265.45	0.65
3:D9:83:ALA:O	3:D9:86:HIS:HB3	1.96	0.65
3:DT:83:ALA:O	3:DT:86:HIS:HB3	1.96	0.65
2:C8:65:LYS:HB2	3:D9:135:ARG:HH21	1.61	0.65
2:CF:65:LYS:HB2	3:DV:135:ARG:HH21	199.26	0.65
3:D8:83:ALA:O	3:D8:86:HIS:HB3	1.96	0.65
1:A8:121:LEU:HD11	1:A9:206:GLY:N	2.11	0.65
1:AB:209:LEU:HD13	1:AB:210:ARG:H	1.61	0.65
1:AB:121:LEU:HD21	1:AC:206:GLY:HA3	1.78	0.65
1:AH:121:LEU:HD11	1:AI:206:GLY:N	2.11	0.65
1:AQ:121:LEU:HD21	1:AR:206:GLY:HA3	1.78	0.65
1:BC:209:LEU:HD13	1:BC:210:ARG:H	1.61	0.65
1:BC:40:VAL:HB	1:BC:68:TRP:CZ2	2.30	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
3:DI:8:VAL:HB	3:DI:10:GLU:HG2	1.77	0.65
3:DE:42:ASN:O	3:DE:45:ASP:HB2	1.96	0.65
1:AM:164:TRP:HZ2	1:AM:187:LEU:HD21	1.58	0.65
2:CG:58:LEU:HD22	2:CG:93:SER:HB3	1.78	0.65
2:C1:13:ARG:HB3	2:C1:27:GLN:OE1	1.95	0.65
1:A5:59:PRO:O	1:A5:72:LEU:HD13	1.97	0.65
1:A3:59:PRO:O	1:A3:72:LEU:HD13	1.96	0.65
1:AA:78:PHE:O	1:AA:167:VAL:HB	1.96	0.65
1:AF:78:PHE:O	1:AF:167:VAL:HB	1.96	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:A8:77:TYR:HD1	1:A8:168:PRO:HA	1.60	0.65
3:EB:132:PRO:HG2	3:EB:184:GLN:HE22	1.62	0.65
1:A1:78:PHE:O	1:A1:167:VAL:HB	1.96	0.65
2:CJ:65:LYS:HB2	3:DM:135:ARG:HH21	240.00	0.65
2:CR:65:LYS:HB2	3:DI:135:ARG:HH21	163.88	0.65
2:CK:65:LYS:HB2	3:DB:135:ARG:HH21	264.71	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:65:LYS:HB2	3:DX:135:ARG:HH21	1.61	0.65
2:CI:65:LYS:HB2	3:DJ:135:ARG:HH21	46.97	0.65
3:EB:83:ALA:O	3:EB:86:HIS:HB3	1.96	0.65
3:DZ:83:ALA:O	3:DZ:86:HIS:HB3	1.96	0.65
2:CD:65:LYS:HB2	3:D4:135:ARG:HH21	146.74	0.65
3:DS:119:LYS:HA	3:DS:147:ASP:HA	1.79	0.65
3:D4:119:LYS:HA	3:D4:147:ASP:HA	1.79	0.65
3:DC:119:LYS:HA	3:DC:147:ASP:HA	1.79	0.65
3:D6:119:LYS:HA	3:D6:147:ASP:HA	1.79	0.65
1:AO:210:ARG:NH1	3:DS:14:PHE:CE1	133.10	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:BB:82:LEU:HD11	1:BB:211:TYR:CD2	2.26	0.65
1:BF:121:LEU:HD21	1:BG:206:GLY:HA3	1.78	0.65
3:DC:42:ASN:O	3:DC:45:ASP:HB2	1.96	0.65
3:DL:42:ASN:O	3:DL:45:ASP:HB2	1.96	0.65
3:EC:42:ASN:O	3:EC:45:ASP:HB2	1.96	0.65
1:BH:40:VAL:HB	1:BH:68:TRP:CZ2	2.30	0.65
1:A0:121:LEU:HD21	1:A1:206:GLY:HA3	1.78	0.65
3:D3:19:PRO:O	3:D3:20:ASP:HB2	1.94	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:A4:187:LEU:CD2	1:A4:188:PRO:HD2	2.25	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:CQ:58:LEU:HD22	2:CQ:93:SER:HB3	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
2:C8:13:ARG:HB3	2:C8:27:GLN:OE1	1.95	0.65
1:BG:59:PRO:O	1:BG:72:LEU:HD13	1.97	0.65
1:AV:59:PRO:O	1:AV:72:LEU:HD13	1.96	0.65
1:BI:59:PRO:O	1:BI:72:LEU:HD13	1.97	0.65
1:AM:78:PHE:O	1:AM:167:VAL:HB	1.96	0.65
1:AJ:78:PHE:O	1:AJ:167:VAL:HB	1.96	0.65
1:A4:78:PHE:O	1:A4:167:VAL:HB	1.96	0.65
1:BH:78:PHE:O	1:BH:167:VAL:HB	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:ED:132:PRO:HG2	3:ED:184:GLN:HE22	1.62	0.65
2:C0:135:THR:HB	2:C0:139:ALA:HA	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:77:TYR:HD1	1:BF:168:PRO:HA	1.60	0.65
1:AF:242:ASN:HD22	1:AJ:110:GLY:H	1.43	0.65
2:CQ:65:LYS:HB2	3:DP:135:ARG:HH21	122.40	0.65
2:CN:65:LYS:HB2	3:D2:135:ARG:HH21	1.61	0.65
2:CW:65:LYS:HB2	3:DS:135:ARG:HH21	246.91	0.65
2:CH:65:LYS:HB2	3:DN:135:ARG:HH21	265.45	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
3:DW:83:ALA:O	3:DW:86:HIS:HB3	1.96	0.65
1:AP:77:TYR:HD1	1:AP:168:PRO:HA	1.60	0.65
1:A0:242:ASN:HD22	1:AZ:110:GLY:H	1.43	0.65
1:AY:110:GLY:H	1:AZ:242:ASN:HD22	1.43	0.65
3:DJ:119:LYS:HA	3:DJ:147:ASP:HA	1.79	0.65
3:DA:119:LYS:HA	3:DA:147:ASP:HA	1.79	0.65
3:DB:119:LYS:HA	3:DB:147:ASP:HA	1.79	0.65
3:DI:119:LYS:HA	3:DI:147:ASP:HA	1.79	0.65
3:D2:119:LYS:HA	3:D2:147:ASP:HA	1.79	0.65
3:DC:66:ASN:HA	3:DC:190:ALA:HB1	1.77	0.65
3:DF:119:LYS:HA	3:DF:147:ASP:HA	1.79	0.65
1:AI:121:LEU:HD11	1:AJ:206:GLY:N	2.11	0.65
1:AO:121:LEU:HD21	1:AS:206:GLY:HA3	122.64	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
3:EC:8:VAL:HB	3:EC:10:GLU:HG2	1.77	0.65
1:A3:206:GLY:HA3	1:A7:121:LEU:HD21	1.78	0.65
1:A3:82:LEU:HD11	1:A3:211:TYR:CD2	2.26	0.65
1:AV:209:LEU:HD13	1:AV:210:ARG:H	1.61	0.65
1:A2:121:LEU:HD11	1:AY:206:GLY:N	2.11	0.65
1:BB:187:LEU:CD2	1:BB:188:PRO:HD2	2.25	0.65
2:CP:209:VAL:H	2:CP:210:PRO:CD	2.07	0.65
2:CM:209:VAL:H	2:CM:210:PRO:CD	2.07	0.65
2:C4:58:LEU:HD22	2:C4:93:SER:HB3	1.78	0.65
1:AK:59:PRO:O	1:AK:72:LEU:HD13	1.96	0.65
1:AO:59:PRO:O	1:AO:72:LEU:HD13	1.97	0.65
3:D5:53:PHE:CE2	3:D5:205:LEU:HB3	2.31	0.65
1:AD:59:PRO:O	1:AD:72:LEU:HD13	1.97	0.65
1:AJ:59:PRO:O	1:AJ:72:LEU:HD13	1.97	0.65
2:C1:120:HIS:CD2	2:C1:205:PRO:HD2	2.29	0.65
1:AQ:59:PRO:O	1:AQ:72:LEU:HD13	1.97	0.65
2:CT:135:THR:HB	2:CT:139:ALA:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:78:PHE:O	1:AS:167:VAL:HB	1.96	0.65
1:AU:78:PHE:O	1:AU:167:VAL:HB	1.96	0.65
1:A5:78:PHE:O	1:A5:167:VAL:HB	1.96	0.65
3:DO:132:PRO:HG2	3:DO:184:GLN:HE22	1.62	0.65
1:A2:78:PHE:O	1:A2:167:VAL:HB	1.96	0.65
2:CR:65:LYS:HB2	3:EE:135:ARG:HH21	1.61	0.65
1:BB:110:GLY:H	1:BC:242:ASN:HD22	1.43	0.65
3:DL:119:LYS:HA	3:DL:147:ASP:HA	1.79	0.65
3:DE:119:LYS:HA	3:DE:147:ASP:HA	1.79	0.65
1:AA:121:LEU:HD11	1:AB:206:GLY:N	2.11	0.65
1:AD:209:LEU:HD13	1:AD:210:ARG:H	1.61	0.65
1:AM:121:LEU:HD11	1:AN:206:GLY:N	2.11	0.65
1:AK:206:GLY:N	1:AO:121:LEU:HD11	2.11	0.65
3:D6:42:ASN:O	3:D6:45:ASP:HB2	1.96	0.65
3:EA:42:ASN:O	3:EA:45:ASP:HB2	1.96	0.65
1:A3:209:LEU:HD13	1:A3:210:ARG:H	1.61	0.65
1:A3:206:GLY:N	1:A7:121:LEU:HD11	2.11	0.65
3:D9:42:ASN:O	3:D9:45:ASP:HB2	1.96	0.65
1:BH:88:PHE:CZ	1:BH:205:GLY:HA3	2.30	0.65
1:A0:164:TRP:HZ2	1:A0:187:LEU:HD21	1.58	0.65
1:AV:164:TRP:HZ2	1:AV:187:LEU:HD21	1.58	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:CZ:58:LEU:HD22	2:CZ:93:SER:HB3	1.78	0.65
3:DM:53:PHE:CE2	3:DM:205:LEU:HB3	2.31	0.65
1:AC:59:PRO:O	1:AC:72:LEU:HD13	1.96	0.65
1:AF:59:PRO:O	1:AF:72:LEU:HD13	1.97	0.65
1:AP:59:PRO:O	1:AP:72:LEU:HD13	1.97	0.65
1:AE:78:PHE:O	1:AE:167:VAL:HB	1.96	0.65
1:BF:78:PHE:O	1:BF:167:VAL:HB	1.96	0.65
3:DG:132:PRO:HG2	3:DG:184:GLN:HE22	1.62	0.65
1:A8:78:PHE:O	1:A8:167:VAL:HB	1.96	0.65
3:DM:132:PRO:HG2	3:DM:184:GLN:HE22	1.62	0.65
1:AA:242:ASN:HD22	1:AE:110:GLY:H	1.43	0.65
1:AO:242:ASN:HD22	1:AR:110:GLY:N	157.04	0.65
2:C4:65:LYS:HB2	3:EC:135:ARG:HH21	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
3:ED:119:LYS:HA	3:ED:147:ASP:HA	1.79	0.65
3:DO:119:LYS:HA	3:DO:147:ASP:HA	1.79	0.65
3:DR:119:LYS:HA	3:DR:147:ASP:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:119:LYS:HA	3:DZ:147:ASP:HA	1.79	0.65
3:EA:66:ASN:HA	3:EA:190:ALA:HB1	1.77	0.65
1:A8:206:GLY:HA3	1:AB:121:LEU:HD21	228.43	0.65
1:A8:209:LEU:HD13	1:A8:210:ARG:H	1.61	0.65
1:A8:88:PHE:CZ	1:A8:205:GLY:HA3	2.31	0.65
1:AA:206:GLY:N	1:AE:121:LEU:HD11	2.11	0.65
1:AQ:121:LEU:HD11	1:AR:206:GLY:N	2.11	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:AM:121:LEU:HD11	1:BA:206:GLY:N	232.34	0.65
1:BE:209:LEU:HD13	1:BE:210:ARG:H	1.61	0.65
3:DD:42:ASN:O	3:DD:45:ASP:HB2	1.96	0.65
3:D7:42:ASN:O	3:D7:45:ASP:HB2	1.96	0.65
3:ED:42:ASN:O	3:ED:45:ASP:HB2	1.96	0.65
1:A5:209:LEU:HD13	1:A5:210:ARG:H	1.61	0.65
1:A1:209:LEU:HD13	1:A1:210:ARG:H	1.61	0.65
1:A1:121:LEU:HD21	1:A2:206:GLY:HA3	1.78	0.65
1:AS:164:TRP:HZ2	1:AS:187:LEU:HD21	1.58	0.65
2:C4:209:VAL:H	2:C4:210:PRO:CD	2.07	0.65
2:CE:135:THR:HB	2:CE:139:ALA:HA	1.78	0.65
2:CH:135:THR:HB	2:CH:139:ALA:HA	1.78	0.65
1:AI:59:PRO:O	1:AI:72:LEU:HD13	1.97	0.65
3:DZ:53:PHE:CE2	3:DZ:205:LEU:HB3	2.31	0.65
1:AN:59:PRO:O	1:AN:72:LEU:HD13	1.96	0.65
3:DO:53:PHE:CE2	3:DO:205:LEU:HB3	2.31	0.65
1:BH:59:PRO:O	1:BH:72:LEU:HD13	1.97	0.65
1:A7:59:PRO:O	1:A7:72:LEU:HD13	1.97	0.65
1:A9:78:PHE:O	1:A9:167:VAL:HB	1.96	0.65
1:BI:78:PHE:O	1:BI:167:VAL:HB	1.96	0.65
1:AV:78:PHE:O	1:AV:167:VAL:HB	1.96	0.65
3:D2:56:ILE:O	3:D2:59:LYS:HG2	1.94	0.65
3:D1:132:PRO:HG2	3:D1:184:GLN:HE22	1.62	0.65
1:AZ:78:PHE:O	1:AZ:167:VAL:HB	1.96	0.65
2:CZ:135:THR:HB	2:CZ:139:ALA:HA	1.78	0.65
1:AV:110:GLY:N	1:AW:242:ASN:HD22	1.95	0.65
1:AH:110:GLY:N	1:AI:242:ASN:HD22	1.95	0.65
1:AC:242:ASN:HD22	1:AG:110:GLY:N	194.30	0.65
1:AM:242:ASN:HD22	1:BD:110:GLY:N	246.52	0.65
1:AP:110:GLY:N	1:AQ:242:ASN:HD22	1.95	0.65
2:CO:65:LYS:HB2	3:DR:135:ARG:HH21	146.74	0.65
2:CX:65:LYS:HB2	3:DO:135:ARG:HH21	213.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:65:LYS:HB2	3:DJ:135:ARG:HH21	1.61	0.65
2:CZ:65:LYS:HB2	3:DQ:135:ARG:HH21	89.00	0.65
1:A0:77:TYR:HD1	1:A0:168:PRO:HA	1.60	0.65
3:DM:119:LYS:HA	3:DM:147:ASP:HA	1.79	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:BB:88:PHE:CZ	1:BB:205:GLY:HA3	2.30	0.65
1:BF:121:LEU:HD11	1:BG:206:GLY:N	2.11	0.65
3:DH:42:ASN:O	3:DH:45:ASP:HB2	1.96	0.65
1:BH:82:LEU:HD11	1:BH:211:TYR:CD2	2.26	0.65
1:A0:209:LEU:HD13	1:A0:210:ARG:H	1.61	0.65
1:AY:121:LEU:HD11	1:AZ:206:GLY:N	2.11	0.65
1:AC:187:LEU:CD2	1:AC:188:PRO:HD2	2.25	0.65
2:CK:135:THR:HB	2:CK:139:ALA:HA	1.78	0.65
2:CB:135:THR:HB	2:CB:139:ALA:HA	1.78	0.65
2:CE:58:LEU:HD22	2:CE:93:SER:HB3	1.78	0.65
3:DS:53:PHE:CE2	3:DS:205:LEU:HB3	2.31	0.65
1:AB:59:PRO:O	1:AB:72:LEU:HD13	1.96	0.65
1:BE:59:PRO:O	1:BE:72:LEU:HD13	1.97	0.65
1:A6:59:PRO:O	1:A6:72:LEU:HD13	1.97	0.65
3:D9:132:PRO:HG2	3:D9:184:GLN:HE22	1.62	0.65
3:DT:132:PRO:HG2	3:DT:184:GLN:HE22	1.62	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
2:C0:65:LYS:HB2	3:DQ:135:ARG:HH21	1.61	0.65
2:CG:65:LYS:HB2	3:D3:135:ARG:HH21	264.71	0.65
3:DP:83:ALA:O	3:DP:86:HIS:HB3	1.96	0.65
3:DN:119:LYS:HA	3:DN:147:ASP:HA	1.79	0.65
1:A9:121:LEU:HD11	1:AN:206:GLY:N	160.79	0.65
1:AC:206:GLY:N	1:AG:121:LEU:HD11	189.88	0.65
1:AW:209:LEU:HD13	1:AW:210:ARG:H	1.61	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
3:DR:42:ASN:O	3:DR:45:ASP:HB2	1.96	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
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:A2:121:LEU:HD21	1:AY:206:GLY:HA3	1.78	0.65
1:A5:164:TRP:HZ2	1:A5:187:LEU:HD21	1.58	0.65
1:A0:187:LEU:CD2	1:A0:188:PRO:HD2	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:164:TRP:HZ2	1:BA:187:LEU:HD21	1.58	0.65
2:CH:209:VAL:H	2:CH:210:PRO:CD	2.07	0.65
1:AM:59:PRO:O	1:AM:72:LEU:HD13	1.96	0.65
1:BD:59:PRO:O	1:BD:72:LEU:HD13	1.97	0.65
3:DK:132:PRO:HG2	3:DK:184:GLN:HE22	1.62	0.65
3:DP:132:PRO:HG2	3:DP:184:GLN:HE22	1.62	0.65
3:D8:132:PRO:HG2	3:D8:184:GLN:HE22	1.62	0.65
3:D7:132:PRO:HG2	3:D7:184:GLN:HE22	1.62	0.65
2:C6:135:THR:HB	2:C6:139:ALA:HA	1.78	0.65
3:DD:132:PRO:HG2	3:DD:184:GLN:HE22	1.62	0.65
1:AF:110:GLY:N	1:AG:242:ASN:HD22	1.95	0.65
1:A8:242:ASN:HD22	1:AB:110:GLY:N	215.09	0.65
1:BA:110:GLY:N	1:BB:242:ASN:HD22	1.95	0.65
1:AK:242:ASN:HD22	1:AO:110:GLY:N	1.95	0.65
1:AN:110:GLY:N	1:AO:242:ASN:HD22	1.95	0.65
1:BG:110:GLY:N	1:BH:242:ASN:HD22	1.95	0.65
1:A9:110:GLY:N	1:AN:242:ASN:HD22	138.56	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	153.35	0.65
1:A9:77:TYR:HD1	1:A9:168:PRO:HA	1.60	0.65
2:CH:115:ASN:C	3:DS:119:LYS:HZ3	160.79	0.65
3:DX:119:LYS:HA	3:DX:147:ASP:HA	1.79	0.65
3:DP:119:LYS:HA	3:DP:147:ASP:HA	1.79	0.65
3:DY:119:LYS:HA	3:DY:147:ASP:HA	1.79	0.65
1:AB:143:VAL:H	3:D9:14:PHE:HB3	220.18	0.65
1:AR:209:LEU:HD13	1:AR:210:ARG:H	1.61	0.65
1:AO:121:LEU:HD11	1:AS:206:GLY:N	125.81	0.65
1:AS:209:LEU:HD13	1:AS:210:ARG:H	1.61	0.65
1:AT:121:LEU:HD21	1:AU:206:GLY:HA3	1.78	0.65
1:AV:121:LEU:HD11	1:AW:206:GLY:N	2.11	0.65
1:AK:143:VAL:H	3:DL:14:PHE:HB3	1.62	0.65
1:AU:187:LEU:CD2	1:AU:188:PRO:HD2	2.25	0.65
1:AA:164:TRP:HZ2	1:AA:187:LEU:HD21	1.58	0.65
1:A5:121:LEU:HD11	1:A6:206:GLY:N	2.11	0.65
1:A2:187:LEU:CD2	1:A2:188:PRO:HD2	2.25	0.65
2:CS:135:THR:HB	2:CS:139:ALA:HA	1.78	0.65
2:CF:58:LEU:HD22	2:CF:93:SER:HB3	1.78	0.65
2:CX:135:THR:HB	2:CX:139:ALA:HA	1.78	0.65
3:EE:53:PHE:CE2	3:EE:205:LEU:HB3	2.31	0.65
3:DG:53:PHE:CE2	3:DG:205:LEU:HB3	2.31	0.65
1:AA:59:PRO:O	1:AA:72:LEU:HD13	1.97	0.65

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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	0.65
1:BF:59:PRO:O	1:BF:72:LEU:HD13	1.97	0.65
3:DA:132:PRO:HG2	3:DA:184:GLN:HE22	1.62	0.65
3:EC:132:PRO:HG2	3:EC:184:GLN:HE22	1.62	0.65
3:D2:132:PRO:HG2	3:D2:184:GLN:HE22	1.62	0.65
3:DH:132:PRO:HG2	3:DH:184:GLN:HE22	1.62	0.65
3:DL:132:PRO:HG2	3:DL:184:GLN:HE22	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
2:C1:65:LYS:HB2	3:DO:135:ARG:HH21	1.61	0.65
1:AY:110:GLY:N	1:AZ:242:ASN:HD22	1.95	0.65
2:C3:65:LYS:HB2	3:DU:135:ARG:HH21	1.61	0.65
3:DW:119:LYS:HA	3:DW:147:ASP:HA	1.79	0.65
1:AF:206:GLY:HA3	1:AJ:121:LEU:HD21	1.78	0.65
1:AG:82:LEU:HD11	1:AG:211:TYR:CD2	2.26	0.65
1:AJ:209:LEU:HD13	1:AJ:210:ARG:H	1.61	0.65
1:AK:121:LEU:HD11	1:AL:206:GLY:N	2.11	0.65
1:AQ:143:VAL:H	3:DR:14:PHE:HB3	1.62	0.65
1:BA:209:LEU:HD13	1:BA:210:ARG:H	1.61	0.65
1:AK:143:VAL:H	3:DN:14:PHE:HB3	33.16	0.65
1:AW:187:LEU:CD2	1:AW:188:PRO:HD2	2.25	0.65
2:CI:209:VAL:H	2:CI:210:PRO:CD	2.07	0.65
2:C1:58:LEU:HD22	2:C1:93:SER:HB3	1.78	0.65
3:DJ:53:PHE:CE2	3:DJ:205:LEU:HB3	2.31	0.65
1:A9:59:PRO:O	1:A9:72:LEU:HD13	1.97	0.65
1:AW:59:PRO:O	1:AW:72:LEU:HD13	1.96	0.65
1:AS:59:PRO:O	1:AS:72:LEU:HD13	1.96	0.65
1:AQ:78:PHE:O	1:AQ:167:VAL:HB	1.96	0.65
1:BC:78:PHE:O	1:BC:167:VAL:HB	1.96	0.65
3:DN:132:PRO:HG2	3:DN:184:GLN:HE22	1.62	0.65
1:AA:242:ASN:HD22	1:AN:110:GLY:N	249.46	0.65
1:AT:242:ASN:HD22	1:AX:110:GLY:N	1.95	0.65
2:CJ:65:LYS:HB2	3:DA:135:ARG:HH21	1.61	0.65
1:A0:110:GLY:H	1:A1:242:ASN:HD22	1.43	0.65
3:DI:115:ALA:HB1	3:DI:194:THR:OG1	1.97	0.65
3:EE:119:LYS:HA	3:EE:147:ASP:HA	1.79	0.64
3:DU:119:LYS:HA	3:DU:147:ASP:HA	1.79	0.64
3:D0:119:LYS:HA	3:D0:147:ASP:HA	1.79	0.64
1:A8:206:GLY:N	1:AB:121:LEU:HD11	232.34	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	291.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:143:VAL:H	3:DP:14:PHE:HB3	136.49	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:BB:121:LEU:HD11	1:BC:206:GLY:N	2.11	0.64
3:D1:42:ASN:O	3:D1:45:ASP:HB2	1.96	0.64
1:A4:121:LEU:HD11	1:A5:206:GLY:N	2.11	0.64
1:A0:121:LEU:HD11	1:A1:206:GLY:N	2.11	0.64
1:AZ:143:VAL:H	3:D1:14:PHE:HB3	1.62	0.64
1:A2:143:VAL:H	3:DZ:14:PHE:HB3	1.62	0.64
2:CY:209:VAL:H	2:CY:210:PRO:CD	2.07	0.64
2:CX:58:LEU:HD22	2:CX:93:SER:HB3	1.78	0.64
1:AS:130:ILE:CD1	1:AS:135:VAL:HG12	2.24	0.64
2:CY:58:LEU:HD22	2:CY:93:SER:HB3	1.78	0.64
3:EC:53:PHE:CE2	3:EC:205:LEU:HB3	2.31	0.64
2:CF:120:HIS:HA	2:CF:203:THR:O	1.98	0.64
2:CD:120:HIS:HA	2:CD:203:THR:O	1.98	0.64
1:BB:59:PRO:O	1:BB:72:LEU:HD13	1.96	0.64
1:BD:77:TYR:HD1	1:BD:168:PRO:HA	1.60	0.64
1:A6:78:PHE:O	1:A6:167:VAL:HB	1.96	0.64
2:CY:135:THR:HB	2:CY:139:ALA:HA	1.78	0.64
1:AL:110:GLY:H	1:AM:242:ASN:HD22	1.43	0.64
2:CL:65:LYS:HB2	3:D8:135:ARG:HH21	124.37	0.64
1:A6:110:GLY:N	1:A7:242:ASN:HD22	1.95	0.64
3:DP:115:ALA:HB1	3:DP:194:THR:OG1	1.98	0.64
3:DA:115:ALA:HB1	3:DA:194:THR:OG1	1.98	0.64
3:DD:119:LYS:HA	3:DD:147:ASP:HA	1.79	0.64
3:DG:119:LYS:HA	3:DG:147:ASP:HA	1.79	0.64
3:DL:66:ASN:HA	3:DL:190:ALA:HB1	1.77	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:AN:143:VAL:H	3:DO:14:PHE:HB3	1.62	0.64
1:AY:82:LEU:HD11	1:AY:211:TYR:CD2	2.26	0.64
1:AK:187:LEU:CD2	1:AK:188:PRO:HD2	2.25	0.64
1:A8:164:TRP:HZ2	1:A8:187:LEU:HD21	1.58	0.64
2:CB:209:VAL:H	2:CB:210:PRO:CD	2.07	0.64
2:C8:58:LEU:HD22	2:C8:93:SER:HB3	1.78	0.64
2:CT:58:LEU:HD22	2:CT:93:SER:HB3	1.78	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
1:AY:59:PRO:O	1:AY:72:LEU:HD13	1.96	0.64
3:D6:53:PHE:CE2	3:D6:205:LEU:HB3	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:59:PRO:O	1:A1:72:LEU:HD13	1.97	0.64
1:AT:59:PRO:O	1:AT:72:LEU:HD13	1.97	0.64
1:AK:78:PHE:O	1:AK:167:VAL:HB	1.96	0.64
3:DF:132:PRO:HG2	3:DF:184:GLN:HE22	1.62	0.64
1:AA:110:GLY:N	1:AB:242:ASN:HD22	1.95	0.64
1:AE:110:GLY:N	1:AF:242:ASN:HD22	75.63	0.64
1:AO:110:GLY:H	1:AS:242:ASN:HD22	95.30	0.64
1:AU:110:GLY:N	1:AV:242:ASN:HD22	1.95	0.64
1:AK:110:GLY:N	1:AL:242:ASN:HD22	1.95	0.64
2:CQ:65:LYS:HB2	3:DY:135:ARG:HH21	124.37	0.64
2:CU:65:LYS:HB2	3:D5:135:ARG:HH21	264.71	0.64
3:D4:115:ALA:HB1	3:D4:194:THR:OG1	1.97	0.64
3:D6:115:ALA:HB1	3:D6:194:THR:OG1	1.98	0.64
3:DG:115:ALA:HB1	3:DG:194:THR:OG1	1.98	0.64
3:EE:83:ALA:O	3:EE:86:HIS:HB3	1.96	0.64
3:DS:115:ALA:HB1	3:DS:194:THR:OG1	1.98	0.64
3:D8:119:LYS:HA	3:D8:147:ASP:HA	1.79	0.64
3:D3:119:LYS:HA	3:D3:147:ASP:HA	1.79	0.64
3:DQ:119:LYS:HA	3:DQ:147:ASP:HA	1.79	0.64
1:AF:121:LEU:HD21	1:AG:206:GLY:HA3	1.78	0.64
1:AQ:88:PHE:CZ	1:AQ:205:GLY:HA3	2.31	0.64
1:AS:143:VAL:H	3:DP:14:PHE:HB3	1.62	0.64
1:AT:143:VAL:H	3:DV:14:PHE:HB3	1.62	0.64
1:BA:82:LEU:HD11	1:BA:211:TYR:CD2	2.26	0.64
1:AI:143:VAL:H	3:DL:14:PHE:HB3	271.16	0.64
1:A7:143:VAL:H	3:D4:14:PHE:HB3	1.62	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:A5:143:VAL:H	3:D7:14:PHE:HB3	1.62	0.64
3:DP:53:PHE:CE2	3:DP:205:LEU:HB3	2.31	0.64
3:DN:53:PHE:CE2	3:DN:205:LEU:HB3	2.31	0.64
1:BC:59:PRO:O	1:BC:72:LEU:HD13	1.97	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:AR:78:PHE:O	1:AR:167:VAL:HB	1.96	0.64
2:CR:135:THR:HB	2:CR:139:ALA:HA	1.78	0.64
1:AI:110:GLY:N	1:AJ:242:ASN:HD22	1.95	0.64
1:AO:110:GLY:N	1:AS:242:ASN:HD22	94.71	0.64
1:AM:110:GLY:N	1:AN:242:ASN:HD22	1.95	0.64
2:CN:65:LYS:HB2	3:DE:135:ARG:HH21	264.84	0.64
2:CC:65:LYS:HB2	3:ED:135:ARG:HH21	246.90	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:110:GLY:N	1:BC:242:ASN:HD22	1.95	0.64
1:A5:110:GLY:N	1:A6:242:ASN:HD22	1.95	0.64
1:A0:110:GLY:N	1:A1:242:ASN:HD22	1.95	0.64
3:DF:115:ALA:HB1	3:DF:194:THR:OG1	1.98	0.64
3:DO:115:ALA:HB1	3:DO:194:THR:OG1	1.98	0.64
3:DV:115:ALA:HB1	3:DV:194:THR:OG1	1.97	0.64
3:DU:115:ALA:HB1	3:DU:194:THR:OG1	1.97	0.64
1:BE:110:GLY:H	1:BF:242:ASN:HD22	1.43	0.64
2:CH:117:SER:HB3	3:DS:192:THR:HG22	161.55	0.64
3:DH:119:LYS:HA	3:DH:147:ASP:HA	1.79	0.64
2:C5:117:SER:HB3	3:DG:192:THR:HG22	1.80	0.64
2:CN:117:SER:HB3	3:DE:192:THR:HG22	262.48	0.64
2:CS:117:SER:HB3	3:DC:192:THR:HG22	263.54	0.64
2:CB:117:SER:HB3	3:DF:192:THR:HG22	151.68	0.64
3:EC:119:LYS:HA	3:EC:147:ASP:HA	1.79	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:AC:143:VAL:H	3:DF:14:PHE:HB3	136.50	0.64
1:AV:143:VAL:H	3:DX:14:PHE:HB3	1.62	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
2:C0:58:LEU:HD22	2:C0:93:SER:HB3	1.78	0.64
2:CP:120:HIS:HA	2:CP:203:THR:O	1.98	0.64
2:CT:120:HIS:HA	2:CT:203:THR:O	1.98	0.64
2:CG:120:HIS:HA	2:CG:203:THR:O	1.98	0.64
2:CR:120:HIS:HA	2:CR:203:THR:O	1.98	0.64
2:C8:120:HIS:HA	2:C8:203:THR:O	1.98	0.64
2:C1:120:HIS:HA	2:C1:203:THR:O	1.98	0.64
2:CO:120:HIS:HA	2:CO:203:THR:O	1.98	0.64
1:AZ:59:PRO:O	1:AZ:72:LEU:HD13	1.97	0.64
3:D4:132:PRO:HG2	3:D4:184:GLN:HE22	1.62	0.64
3:DX:132:PRO:HG2	3:DX:184:GLN:HE22	1.62	0.64
3:DI:132:PRO:HG2	3:DI:184:GLN:HE22	1.62	0.64
2:C2:65:LYS:HB2	3:DH:135:ARG:HH21	264.71	0.64
1:AQ:110:GLY:N	1:AR:242:ASN:HD22	1.95	0.64
2:CG:65:LYS:HB2	3:EB:135:ARG:HH21	1.61	0.64
1:BE:110:GLY:N	1:BF:242:ASN:HD22	1.95	0.64
3:DN:115:ALA:HB1	3:DN:194:THR:OG1	1.98	0.64
3:ED:115:ALA:HB1	3:ED:194:THR:OG1	1.98	0.64
3:DR:115:ALA:HB1	3:DR:194:THR:OG1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DK:115:ALA:HB1	3:DK:194:THR:OG1	1.98	0.64
2:CV:117:SER:HB3	3:DD:192:THR:HG22	155.69	0.64
2:CX:117:SER:HB3	3:DO:192:THR:HG22	223.39	0.64
2:CX:117:SER:HB3	3:DR:192:THR:HG22	159.41	0.64
2:CZ:117:SER:HB3	3:DQ:192:THR:HG22	95.45	0.64
2:CE:117:SER:HB3	3:DF:192:THR:HG22	1.80	0.64
2:CS:117:SER:HB3	3:EA:192:THR:HG22	161.16	0.64
1:A9:143:VAL:H	3:DB:14:PHE:HB3	243.41	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:BI:87:GLN:O	1:BI:88:PHE:HB3	1.98	0.64
1:AE:143:VAL:H	3:DA:14:PHE:HB3	1.62	0.64
1:BH:143:VAL:H	3:EE:14:PHE:HB3	1.62	0.64
1:BG:143:VAL:H	3:ED:14:PHE:HB3	1.62	0.64
1:A4:143:VAL:H	3:D6:14:PHE:HB3	1.62	0.64
1:AE:187:LEU:CD2	1:AE:188:PRO:HD2	2.25	0.64
1:A6:87:GLN:O	1:A6:88:PHE:HB3	1.98	0.64
1:BC:164:TRP:HZ2	1:BC:187:LEU:HD21	1.58	0.64
1:AX:187:LEU:CD2	1:AX:188:PRO:HD2	2.25	0.64
2:CI:120:HIS:HA	2:CI:203:THR:O	1.98	0.64
2:CA:120:HIS:HA	2:CA:203:THR:O	1.98	0.64
2:CW:120:HIS:HA	2:CW:203:THR:O	1.98	0.64
1:A8:59:PRO:O	1:A8:72:LEU:HD13	1.97	0.64
3:DD:53:PHE:CE2	3:DD:205:LEU:HB3	2.31	0.64
2:C7:120:HIS:HA	2:C7:203:THR:O	1.98	0.64
1:A0:59:PRO:O	1:A0:72:LEU:HD13	1.97	0.64
1:BC:110:GLY:N	1:BD:242:ASN:HD22	1.95	0.64
2:CL:65:LYS:HB2	3:DK:135:ARG:HH21	122.40	0.64
2:CD:65:LYS:HB2	3:D7:135:ARG:HH21	1.61	0.64
3:D2:115:ALA:HB1	3:D2:194:THR:OG1	1.98	0.64
3:DD:115:ALA:HB1	3:DD:194:THR:OG1	1.97	0.64
3:DM:115:ALA:HB1	3:DM:194:THR:OG1	1.98	0.64
3:DW:115:ALA:HB1	3:DW:194:THR:OG1	1.98	0.64
3:DH:115:ALA:HB1	3:DH:194:THR:OG1	1.98	0.64
2:CP:32:THR:HG23	2:CP:172:HIS:CE1	2.33	0.64
2:CW:117:SER:HB3	3:DJ:192:THR:HG22	1.80	0.64
2:CJ:117:SER:HB3	3:DA:192:THR:HG22	1.80	0.64
2:CE:117:SER:HB3	3:DC:192:THR:HG22	157.87	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	233.75	0.64
1:AN:121:LEU:HD11	1:AO:206:GLY:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:87:GLN:O	1:AW:88:PHE:HB3	1.98	0.64
1:BH:121:LEU:HD11	1:BI:206:GLY:N	2.11	0.64
1:AX:143:VAL:H	3:DU:14:PHE:HB3	1.62	0.64
1:A7:88:PHE:CE1	1:A7:205:GLY:CA	2.81	0.64
1:AU:121:LEU:HD11	1:AV:206:GLY:N	2.11	0.64
1:A0:87:GLN:O	1:A0:88:PHE:HB3	1.98	0.64
1:AS:187:LEU:CD2	1:AS:188:PRO:HD2	2.25	0.64
2:C7:58:LEU:HD22	2:C7:93:SER:HB3	1.78	0.64
3:DQ:53:PHE:CE2	3:DQ:205:LEU:HB3	2.31	0.64
2:C9:120:HIS:HA	2:C9:203:THR:O	1.98	0.64
2:CQ:120:HIS:HA	2:CQ:203:THR:O	1.98	0.64
3:DR:53:PHE:CE2	3:DR:205:LEU:HB3	2.31	0.64
2:CU:120:HIS:HA	2:CU:203:THR:O	1.98	0.64
1:AR:59:PRO:O	1:AR:72:LEU:HD13	1.97	0.64
1:AU:59:PRO:O	1:AU:72:LEU:HD13	1.97	0.64
3:DV:132:PRO:HG2	3:DV:184:GLN:HE22	1.62	0.64
3:DR:132:PRO:HG2	3:DR:184:GLN:HE22	1.62	0.64
3:D0:132:PRO:HG2	3:D0:184:GLN:HE22	1.62	0.64
1:AO:104:VAL:HG22	1:AO:197:LEU:HD23	1.80	0.64
1:AB:110:GLY:N	1:AC:242:ASN:HD22	1.95	0.64
1:A4:110:GLY:N	1:A5:242:ASN:HD22	1.95	0.64
1:AP:242:ASN:HD22	1:AS:110:GLY:N	1.95	0.64
2:CC:65:LYS:HB2	3:DN:135:ARG:HH21	163.88	0.64
2:C7:32:THR:HG23	2:C7:172:HIS:CE1	2.33	0.64
3:D7:115:ALA:HB1	3:D7:194:THR:OG1	1.98	0.64
3:DZ:115:ALA:HB1	3:DZ:194:THR:OG1	1.98	0.64
2:CN:32:THR:HG23	2:CN:172:HIS:CE1	2.33	0.64
2:CF:32:THR:HG23	2:CF:172:HIS:CE1	2.33	0.64
3:D1:115:ALA:HB1	3:D1:194:THR:OG1	1.98	0.64
3:DB:115:ALA:HB1	3:DB:194:THR:OG1	1.97	0.64
2:C5:32:THR:HG23	2:C5:172:HIS:CE1	2.33	0.64
2:CQ:117:SER:HB3	3:DP:192:THR:HG22	108.21	0.64
2:CG:117:SER:HB3	3:D3:192:THR:HG22	262.58	0.64
3:DG:101:ARG:NH1	3:DG:165:ASP:HB3	2.13	0.64
3:DP:101:ARG:NH1	3:DP:165:ASP:HB3	2.13	0.64
1:AC:87:GLN:O	1:AC:88:PHE:HB3	1.98	0.64
1:AE:88:PHE:CE1	1:AE:205:GLY:CA	2.81	0.64
1:AF:143:VAL:H	3:DG:14:PHE:HB3	1.62	0.64
1:AI:88:PHE:CE1	1:AI:205:GLY:CA	2.81	0.64
1:AW:143:VAL:H	3:DY:14:PHE:HB3	1.62	0.64
1:AW:88:PHE:CE1	1:AW:205:GLY:CA	2.81	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A7:209:LEU:HD13	1:A7:210:ARG:H	1.61	0.64
2:C1:209:VAL:H	2:C1:210:PRO:CD	2.07	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
3:DW:53:PHE:CE2	3:DW:205:LEU:HB3	2.31	0.64
2:CK:120:HIS:HA	2:CK:203:THR:O	1.98	0.64
2:CB:120:HIS:HA	2:CB:203:THR:O	1.98	0.64
2:CE:120:HIS:HA	2:CE:203:THR:O	1.98	0.64
1:AY:78:PHE:O	1:AY:167:VAL:HB	1.96	0.64
3:DQ:132:PRO:HG2	3:DQ:184:GLN:HE22	1.62	0.64
3:DS:132:PRO:HG2	3:DS:184:GLN:HE22	1.62	0.64
1:AC:104:VAL:HG22	1:AC:197:LEU:HD23	1.80	0.64
1:AG:104:VAL:HG22	1:AG:197:LEU:HD23	1.80	0.64
1:AF:104:VAL:HG22	1:AF:197:LEU:HD23	1.80	0.64
1:A8:104:VAL:HG22	1:A8:197:LEU:HD23	1.80	0.64
1:AE:110:GLY:H	1:AF:242:ASN:HD22	75.98	0.64
2:CK:65:LYS:HB2	3:DA:135:ARG:HH21	275.88	0.64
2:CM:65:LYS:HB2	3:DD:135:ARG:HH21	163.88	0.64
2:CP:65:LYS:HB2	3:D1:135:ARG:HH21	1.61	0.64
1:A0:242:ASN:HD22	1:AZ:110:GLY:N	1.95	0.64
2:CQ:32:THR:HG23	2:CQ:172:HIS:CE1	2.33	0.64
2:C1:32:THR:HG23	2:C1:172:HIS:CE1	2.33	0.64
3:DL:115:ALA:HB1	3:DL:194:THR:OG1	1.97	0.64
3:EB:115:ALA:HB1	3:EB:194:THR:OG1	1.97	0.64
2:CI:117:SER:HB3	3:DJ:192:THR:HG22	80.38	0.64
2:CW:117:SER:HB3	3:DS:192:THR:HG22	256.98	0.64
2:CH:117:SER:HB3	3:DN:192:THR:HG22	263.54	0.64
2:CK:63:THR:H	3:DA:139:MET:HG3	261.32	0.64
3:DK:119:LYS:HA	3:DK:147:ASP:HA	1.79	0.64
2:CO:117:SER:HB3	3:DR:192:THR:HG22	155.69	0.64
2:CG:63:THR:H	3:EB:139:MET:HG3	1.63	0.64
2:CA:117:SER:HB3	3:DL:192:THR:HG22	262.58	0.64
2:CA:117:SER:HB3	3:DW:192:THR:HG22	1.80	0.64
2:C3:117:SER:HB3	3:DU:192:THR:HG22	1.80	0.64
3:DT:119:LYS:HA	3:DT:147:ASP:HA	1.79	0.64
3:D1:119:LYS:HA	3:D1:147:ASP:HA	1.79	0.64
3:DH:101:ARG:NH1	3:DH:165:ASP:HB3	2.13	0.64
3:DU:101:ARG:NH1	3:DU:165:ASP:HB3	2.13	0.64
1:AA:87:GLN:O	1:AA:88:PHE:HB3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:87:GLN:O	1:AE: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:AS:87:GLN:O	1:AS:88:PHE:HB3	1.98	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:BI:143:VAL:H	3:EA:14:PHE:HB3	1.62	0.64
3:DH:42:ASN:HD22	3:DH:44:ILE:H	1.46	0.64
1:A4:164:TRP:HZ2	1:A4:187:LEU:HD21	1.58	0.64
2:C2:58:LEU:HD22	2:C2:93:SER:HB3	1.78	0.64
3:DE:53:PHE:CE2	3:DE:205:LEU:HB3	2.31	0.64
3:D0:53:PHE:CE2	3:D0:205:LEU:HB3	2.31	0.64
2:C2:120:HIS:HA	2:C2:203:THR:O	1.98	0.64
3:DU:132:PRO:HG2	3:DU:184:GLN:HE22	1.62	0.64
3:D3:132:PRO:HG2	3:D3:184:GLN:HE22	1.62	0.64
3:DW:132:PRO:HG2	3:DW:184:GLN:HE22	1.62	0.64
1:A5:104:VAL:HG22	1:A5:197:LEU:HD23	1.80	0.64
1:AJ:104:VAL:HG22	1:AJ:197:LEU:HD23	1.80	0.64
1:BB:104:VAL:HG22	1:BB:197:LEU:HD23	1.80	0.64
1:AF:242:ASN:HD22	1:AJ:110:GLY:N	1.95	0.64
1:BE:242:ASN:HD22	1:BI:110:GLY:N	1.95	0.64
2:CT:65:LYS:HB2	3:DH:135:ARG:HH21	233.28	0.64
2:CE:65:LYS:HB2	3:DC:135:ARG:HH21	151.38	0.64
2:CU:65:LYS:HB2	3:DG:135:ARG:HH21	246.15	0.64
2:CR:32:THR:HG23	2:CR:172:HIS:CE1	2.33	0.64
2:C8:32:THR:HG23	2:C8:172:HIS:CE1	2.33	0.64
3:DE:115:ALA:HB1	3:DE:194:THR:OG1	1.97	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:CR:117:SER:HB3	3:DI:192:THR:HG22	161.55	0.64
2:CU:63:THR:H	3:DG:139:MET:HG3	230.56	0.64
2:C1:63:THR:H	3:DO:139:MET:HG3	1.63	0.64
3:EB:119:LYS:HA	3:EB:147:ASP:HA	1.79	0.64
2:C0:117:SER:HB3	3:DQ:192:THR:HG22	1.80	0.64
3:DL:101:ARG:NH1	3:DL:165:ASP:HB3	2.13	0.64
3:EC:101:ARG:NH1	3:EC:165:ASP:HB3	2.13	0.64
3:DR:101:ARG:NH1	3:DR:165:ASP:HB3	2.13	0.64
1:A8:87:GLN:O	1:A8:88:PHE:HB3	1.98	0.64
1:AF:87:GLN:O	1:AF:88:PHE:HB3	1.98	0.64
1:AH:87:GLN:O	1:AH:88:PHE:HB3	1.98	0.64
1:AK:87:GLN:O	1:AK:88:PHE:HB3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:87:GLN:O	1:AM:88:PHE:HB3	1.98	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:AH:143:VAL:H	3:DK:14:PHE:HB3	270.53	0.64
3:DG:42:ASN:HD22	3:DG:44:ILE:H	1.46	0.64
3:DD:42:ASN:HD22	3:DD:44:ILE:H	1.46	0.64
3:DL:42:ASN:HD22	3:DL:44:ILE:H	1.46	0.64
3:DS:42:ASN:HD22	3:DS:44:ILE:H	1.46	0.64
3:DF:42:ASN:HD22	3:DF:44:ILE:H	1.46	0.64
1:A6:121:LEU:HD11	1:A7:206:GLY:N	2.11	0.64
3:D9:42:ASN:HD22	3:D9:44:ILE:H	1.46	0.64
1:BG:121:LEU:HD21	1:BH:206:GLY:HA3	1.78	0.64
1:AN:187:LEU:CD2	1:AN:188:PRO:HD2	2.25	0.64
3:DI:53:PHE:CE2	3:DI:205:LEU:HB3	2.31	0.64
2:CC:120:HIS:HA	2:CC:203:THR:O	1.98	0.64
2:CM:120:HIS:HA	2:CM:203:THR:O	1.98	0.64
1:AE:104:VAL:HG22	1:AE:197:LEU:HD23	1.80	0.64
1:AN:104:VAL:HG22	1:AN:197:LEU:HD23	1.80	0.64
1:AT:104:VAL:HG22	1:AT:197:LEU:HD23	1.80	0.64
1:AM:104:VAL:HG22	1:AM:197:LEU:HD23	1.80	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:AH:242:ASN:HD22	1:AL:110:GLY:N	266.71	0.64
1:AL:110:GLY:N	1:AM:242:ASN:HD22	1.95	0.64
1:AA:242:ASN:HD22	1:AE:110:GLY:N	1.95	0.64
1:AJ:110:GLY:N	1:AK:242:ASN:HD22	268.43	0.64
3:D3:115:ALA:HB1	3:D3:194:THR:OG1	1.98	0.64
2:C0:32:THR:HG23	2:C0:172:HIS:CE1	2.33	0.64
2:CC:32:THR:HG23	2:CC:172:HIS:CE1	2.33	0.64
2:CO:32:THR:HG23	2:CO:172:HIS:CE1	2.33	0.64
3:DC:115:ALA:HB1	3:DC:194:THR:OG1	1.98	0.64
2:CK:117:SER:HB3	3:DB:192:THR:HG22	262.58	0.64
2:CR:117:SER:HB3	3:EE:192:THR:HG22	1.80	0.64
2:CJ:63:THR:H	3:DA:139:MET:HG3	1.63	0.64
2:C7:117:SER:HB3	3:DM:192:THR:HG22	159.42	0.64
2:CJ:117:SER:HB3	3:DM:192:THR:HG22	234.03	0.64
2:CT:117:SER:HB3	3:DH:192:THR:HG22	228.52	0.64
2:C5:115:ASN:C	3:DG:119:LYS:HZ3	2.01	0.64
2:CD:117:SER:HB3	3:D4:192:THR:HG22	155.69	0.64
3:D7:119:LYS:HA	3:D7:147:ASP:HA	1.79	0.64
2:CQ:63:THR:H	3:DY:139:MET:HG3	123.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:63:THR:H	3:DQ:139:MET:HG3	1.63	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:CB:117:SER:HB3	3:DT:192:THR:HG22	263.54	0.64
2:CE:63:THR:H	3:DC:139:MET:HG3	141.57	0.64
2:CS:63:THR:H	3:DC:139:MET:HG3	253.74	0.64
3:DD:101:ARG:NH1	3:DD:165:ASP:HB3	2.13	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:DY:101:ARG:NH1	3:DY:165:ASP:HB3	2.13	0.64
3:ED:101:ARG:NH1	3:ED:165:ASP:HB3	2.13	0.64
3:D2:101:ARG:NH1	3:D2:165:ASP:HB3	2.13	0.64
1:BB:143:VAL:H	3:DR:14:PHE:HB3	144.63	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:AG:143:VAL:H	3:DE:14:PHE:HB3	146.36	0.64
3:DP:42:ASN:HD22	3:DP:44:ILE:H	1.46	0.64
1:A7:87:GLN:O	1:A7:88:PHE:HB3	1.98	0.64
3:DY:42:ASN:HD22	3:DY:44:ILE:H	1.46	0.64
1:AV:87:GLN:O	1:AV:88:PHE:HB3	1.98	0.64
2:CJ:120:HIS:HA	2:CJ:203:THR:O	1.98	0.64
3:DA:53:PHE:CE2	3:DA:205:LEU:HB3	2.31	0.64
2:C5:120:HIS:HA	2:C5:203:THR:O	1.98	0.64
1:AR:104:VAL:HG22	1:AR:197:LEU:HD23	1.80	0.64
1:AW:110:GLY:N	1:AX:242:ASN:HD22	1.95	0.64
1:BH:110:GLY:N	1:BI:242:ASN:HD22	1.95	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	163.88	0.64
2:CZ:32:THR:HG23	2:CZ:172:HIS:CE1	2.33	0.64
3:EE:115:ALA:HB1	3:EE:194:THR:OG1	1.98	0.64
2:CS:32:THR:HG23	2:CS:172:HIS:CE1	2.33	0.64
2:C3:32:THR:HG23	2:C3:172:HIS:CE1	2.33	0.64
2:CE:32:THR:HG23	2:CE:172:HIS:CE1	2.33	0.64
3:DJ:115:ALA:HB1	3:DJ:194:THR:OG1	1.98	0.64
2:CY:32:THR:HG23	2:CY:172:HIS:CE1	2.33	0.64
2:CH:63:THR:H	3:DS:139:MET:HG3	156.73	0.63
2:CJ:63:THR:H	3:DM:139:MET:HG3	230.39	0.63
2:CM:63:THR:H	3:DI:139:MET:HG3	253.74	0.63
2:C2:63:THR:H	3:DH:139:MET:HG3	253.20	0.63
2:CL:63:THR:H	3:DK:139:MET:HG3	120.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CU:117:SER:HB3	3:DG:192:THR:HG22	256.39	0.63
3:D5:119:LYS:HA	3:D5:147:ASP:HA	1.79	0.63
2:CU:117:SER:HB3	3:D5:192:THR:HG22	262.58	0.63
2:CD:63:THR:H	3:D7:139:MET:HG3	1.63	0.63
2:CA:63:THR:H	3:DW:139:MET:HG3	1.63	0.63
2:CE:63:THR:H	3:DF:139:MET:HG3	1.63	0.63
2:CB:63:THR:H	3:DT:139:MET:HG3	253.74	0.63
3:DV:119:LYS:HA	3:DV:147:ASP:HA	1.79	0.63
2:CF:117:SER:HB3	3:DV:192:THR:HG22	176.05	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:DQ:101:ARG:NH1	3:DQ:165:ASP:HB3	2.13	0.63
3:D4:101:ARG:NH1	3:D4:165:ASP:HB3	2.13	0.63
3:EA:101:ARG:NH1	3:EA:165:ASP:HB3	2.13	0.63
3:D8:101:ARG:NH1	3:D8:165:ASP:HB3	2.13	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:BF:88:PHE:CE1	1:BF:205:GLY:CA	2.81	0.63
3:DB:42:ASN:HD22	3:DB:44:ILE:H	1.46	0.63
3:DJ:42:ASN:HD22	3:DJ:44:ILE:H	1.46	0.63
1:AQ:187:LEU:CD2	1:AQ:188:PRO:HD2	2.25	0.63
1:A3:164:TRP:HZ2	1:A3:187:LEU:HD21	1.58	0.63
2:C5:209:VAL:H	2:C5:210:PRO:CD	2.07	0.63
2:CV:120:HIS:HA	2:CV:203:THR:O	1.98	0.63
2:C0:120:HIS:HA	2:C0:203:THR:O	1.98	0.63
3:EA:132:PRO:HG2	3:EA:184:GLN:HE22	1.62	0.63
1:AK:104:VAL:HG22	1:AK:197:LEU:HD23	1.80	0.63
1:AA:104:VAL:HG22	1:AA:197:LEU:HD23	1.80	0.63
1:AY:104:VAL:HG22	1:AY:197:LEU:HD23	1.80	0.63
1:AQ:104:VAL:HG22	1:AQ:197:LEU:HD23	1.80	0.63
2:CF:65:LYS:HB2	3:D6:135:ARG:HH21	1.61	0.63
2:CA:32:THR:HG23	2:CA:172:HIS:CE1	2.33	0.63
2:CJ:32:THR:HG23	2:CJ:172:HIS:CE1	2.33	0.63
3:D5:110:PHE:CB	3:D5:148:VAL:HG11	2.29	0.63
2:CV:117:SER:HB3	3:DB:192:THR:HG22	1.80	0.63
2:C3:63:THR:H	3:DU:139:MET:HG3	1.63	0.63
3:DK:101:ARG:NH1	3:DK:165:ASP:HB3	2.13	0.63
3:EE:101:ARG:NH1	3:EE:165:ASP:HB3	2.13	0.63
1:A9:87:GLN:O	1:A9:88:PHE:HB3	1.98	0.63
1:AD:87:GLN:O	1:AD:88:PHE:HB3	1.98	0.63
1:AH:88:PHE:CE1	1:AH:205:GLY:CA	2.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:143:VAL:H	3:DN:14:PHE:HB3	1.62	0.63
1:AR:87:GLN:O	1:AR:88:PHE:HB3	1.98	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	117.75	0.63
1:A3:87:GLN:O	1:A3:88:PHE:HB3	1.98	0.63
1:A6:143:VAL:H	3:D8:14:PHE:HB3	1.62	0.63
3:DQ:42:ASN:HD22	3:DQ:44:ILE:H	1.46	0.63
1:A5:88:PHE:CE1	1:A5:205:GLY:CA	2.81	0.63
1:A1:88:PHE:CE1	1:A1:205:GLY:CA	2.81	0.63
1:A1:87:GLN:O	1:A1:88:PHE:HB3	1.98	0.63
1:AZ:87:GLN:O	1:AZ:88:PHE:HB3	1.98	0.63
2:C3:208:THR:O	2:C3:209:VAL:HG23	1.99	0.63
1:BE:187:LEU:CD2	1:BE:188:PRO:HD2	2.25	0.63
2:CX:120:HIS:HA	2:CX:203:THR:O	1.98	0.63
3:DK:53:PHE:CE2	3:DK:205:LEU:HB3	2.31	0.63
1:AG:110:GLY:N	1:AH:242:ASN:HD22	1.95	0.63
1:A8:110:GLY:N	1:A9:242:ASN:HD22	1.95	0.63
2:C9:65:LYS:HB2	3:DL:135:ARG:HH21	89.00	0.63
3:DR:110:PHE:CB	3:DR:148:VAL:HG11	2.29	0.63
2:CH:32:THR:HG23	2:CH:172:HIS:CE1	2.33	0.63
3:DO:110:PHE:CB	3:DO:148:VAL:HG11	2.29	0.63
3:D1:110:PHE:CB	3:D1:148:VAL:HG11	2.28	0.63
3:DF:110:PHE:CB	3:DF:148:VAL:HG11	2.29	0.63
2:CK:32:THR:HG23	2:CK:172:HIS:CE1	2.33	0.63
2:CU:32:THR:HG23	2:CU:172:HIS:CE1	2.33	0.63
3:DH:110:PHE:CB	3:DH:148:VAL:HG11	2.29	0.63
3:D9:115:ALA:HB1	3:D9:194:THR:OG1	1.97	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
2:CH:63:THR:H	3:DN:139:MET:HG3	253.74	0.63
2:CM:117:SER:HB3	3:DD:192:THR:HG22	161.55	0.63
2:CM:63:THR:H	3:DD:139:MET:HG3	156.73	0.63
2:CQ:117:SER:HB3	3:DY:192:THR:HG22	109.78	0.63
3:D9:101:ARG:NH1	3:D9:165:ASP:HB3	2.13	0.63
1:AB:87:GLN:O	1:AB:88:PHE:HB3	1.98	0.63
1:BE:88:PHE:CE1	1:BE:205:GLY:CA	2.81	0.63
3:DC:42:ASN:HD22	3:DC:44:ILE:H	1.46	0.63
3:ED:42:ASN:HD22	3:ED:44:ILE:H	1.46	0.63
2:CB:208:THR:O	2:CB:209:VAL:HG23	1.99	0.63
3:ED:53:PHE:CE2	3:ED:205:LEU:HB3	2.31	0.63
3:D6:132:PRO:HG2	3:D6:184:GLN:HE22	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:104:VAL:HG22	1:BI:197:LEU:HD23	1.80	0.63
1:AT:110:GLY:N	1:AU:242:ASN:HD22	1.95	0.63
1:A3:242:ASN:HD22	1:A7:110:GLY:N	1.95	0.63
2:CL:32:THR:HG23	2:CL:172:HIS:CE1	2.33	0.63
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:D8:110:PHE:CB	3:D8:148:VAL:HG11	2.29	0.63
3:DA:110:PHE:CB	3:DA:148:VAL:HG11	2.29	0.63
2:CW:32:THR:HG23	2:CW:172:HIS:CE1	2.33	0.63
2:CC:63:THR:H	3:DN:139:MET:HG3	156.73	0.63
2:CC:63:THR:H	3:ED:139:MET:HG3	231.48	0.63
3:DA:66:ASN:HB3	3:DA:191:LEU:O	1.99	0.63
2:C7:63:THR:H	3:DM:139:MET:HG3	143.99	0.63
2:CL:117:SER:HB3	3:DK:192:THR:HG22	108.21	0.63
3:DK:66:ASN:HB3	3:DK:191:LEU:O	1.99	0.63
2:CX:63:THR:H	3:DO:139:MET:HG3	200.78	0.63
2:CO:63:THR:H	3:DR:139:MET:HG3	136.55	0.63
2:CB:63:THR:H	3:DF:139:MET:HG3	135.46	0.63
3:EA:119:LYS:HA	3:EA:147:ASP:HA	1.79	0.63
3:EA:66:ASN:HB3	3:EA:191:LEU:O	1.99	0.63
3:DJ:101:ARG:NH1	3:DJ:165:ASP:HB3	2.13	0.63
3:EB:101:ARG:NH1	3:EB:165:ASP:HB3	2.13	0.63
3:D1:101:ARG:NH1	3:D1:165:ASP:HB3	2.13	0.63
1:AC:207:CYS:H	1:AG:121:LEU:CD2	189.88	0.63
1:AG:87:GLN:O	1:AG:88:PHE:HB3	1.98	0.63
1:AJ:88:PHE:CE1	1:AJ:205:GLY:CA	2.81	0.63
1:AN:88:PHE:CE1	1:AN:205:GLY:CA	2.81	0.63
1:AO:87:GLN:O	1:AO:88:PHE:HB3	1.98	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:BB:87:GLN:O	1:BB:88:PHE:HB3	1.98	0.63
1:BF:87:GLN:O	1:BF:88:PHE:HB3	1.98	0.63
1:AE:143:VAL:H	3:DH:14:PHE:HB3	144.37	0.63
1:BC:143:VAL:H	3:DS:14:PHE:HB3	151.49	0.63
3:DU:42:ASN:HD22	3:DU:44:ILE:H	1.46	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
2:CS:208:THR:O	2:CS:209:VAL:HG23	1.99	0.63
2:CF:208:THR:O	2:CF:209:VAL:HG23	1.99	0.63
2:CC:208:THR:O	2:CC:209:VAL:HG23	1.99	0.63
2:CM:208:THR:O	2:CM:209:VAL:HG23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:58:LEU:HD22	2:C6:93:SER:HB3	1.78	0.63
3:D5:132:PRO:HG2	3:D5:184:GLN:HE22	1.62	0.63
3:DJ:132:PRO:HG2	3:DJ:184:GLN:HE22	1.62	0.63
1:AZ:104:VAL:HG22	1:AZ:197:LEU:HD23	1.80	0.63
1:AM:110:GLY:N	1:BA:242:ASN:HD22	215.09	0.63
1:AG:230:ARG:NH2	3:DI:83:ALA:HB1	106.93	0.63
1:BF:110:GLY:N	1:BG:242:ASN:HD22	1.95	0.63
1:AJ:230:ARG:NH2	3:DJ:83:ALA:HB1	2.14	0.63
1:BA:230:ARG:NH2	3:DP:83:ALA:HB1	126.29	0.63
3:ED:110:PHE:CB	3:ED:148:VAL:HG11	2.29	0.63
3:DC:110:PHE:CB	3:DC:148:VAL:HG11	2.29	0.63
2:CT:32:THR:HG23	2:CT:172:HIS:CE1	2.33	0.63
3:EA:115:ALA:HB1	3:EA:194:THR:OG1	1.98	0.63
3:EB:110:PHE:CB	3:EB:148:VAL:HG11	2.29	0.63
2:C9:32:THR:HG23	2:C9:172:HIS:CE1	2.33	0.63
3:DY:115:ALA:HB1	3:DY:194:THR:OG1	1.98	0.63
3:DQ:110:PHE:CB	3:DQ:148:VAL:HG11	2.29	0.63
2:C4:32:THR:HG23	2:C4:172:HIS:CE1	2.33	0.63
2:CM:32:THR:HG23	2:CM:172:HIS:CE1	2.33	0.63
2:CY:65:LYS:HB2	3:DZ:135:ARG:HH21	1.61	0.63
3:DJ:110:PHE:CB	3:DJ:148:VAL:HG11	2.29	0.63
2:CX:32:THR:HG23	2:CX:172:HIS:CE1	2.33	0.63
3:DI:110:PHE:CB	3:DI:148:VAL:HG11	2.29	0.63
3:D9:119:LYS:HA	3:D9:147:ASP:HA	1.79	0.63
2:CC:117:SER:HB3	3:ED:192:THR:HG22	256.98	0.63
3:DJ:66:ASN:HB3	3:DJ:191:LEU:O	1.99	0.63
3:DN:66:ASN:HB3	3:DN:191:LEU:O	1.99	0.63
3:DX:66:ASN:HB3	3:DX:191:LEU:O	1.99	0.63
2:C7:115:ASN:C	3:DM:119:LYS:HZ3	155.97	0.63
2:CK:115:ASN:C	3:DB:119:LYS:HZ3	258.08	0.63
3:DO:66:ASN:HB3	3:DO:191:LEU:O	1.99	0.63
2:CX:63:THR:H	3:DR:139:MET:HG3	143.99	0.63
3:DY:66:ASN:HB3	3:DY:191:LEU:O	1.99	0.63
2:CN:117:SER:HB3	3:D2:192:THR:HG22	1.80	0.63
3:DZ:66:ASN:HB3	3:DZ:191:LEU:O	1.99	0.63
1:AA:121:LEU:CD2	1:AB:207:CYS:H	2.12	0.63
1:AF:121:LEU:CD2	1:AG:207:CYS:H	2.12	0.63
1:AI:87:GLN:O	1:AI:88:PHE:HB3	1.98	0.63
1:AL:143:VAL:H	3:DM:14:PHE:HB3	1.62	0.63
1:AL:88:PHE:CE1	1:AL:205:GLY:CA	2.81	0.63
1:AN:87:GLN:O	1:AN:88:PHE:HB3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:143:VAL:H	3:DQ:14:PHE:HB3	133.12	0.63
1:A4:87:GLN:O	1:A4:88:PHE:HB3	1.98	0.63
1:AY:88:PHE:CE1	1:AY:205:GLY:CA	2.81	0.63
1:A3:187:LEU:CD2	1:A3:188:PRO:HD2	2.25	0.63
2:CN:208:THR:O	2:CN:209:VAL:HG23	1.99	0.63
2:C0:208:THR:O	2:C0:209:VAL:HG23	1.99	0.63
2:CJ:208:THR:O	2:CJ:209:VAL:HG23	1.99	0.63
2:CD:208:THR:O	2:CD:209:VAL:HG23	1.99	0.63
2:CR:208:THR:O	2:CR:209:VAL:HG23	1.99	0.63
2:C7:208:THR:O	2:C7:209:VAL:HG23	1.99	0.63
2:CY:208:THR:O	2:CY:209:VAL:HG23	1.99	0.63
2:C4:120:HIS:HA	2:C4:203:THR:O	1.98	0.63
1:A6:104:VAL:HG22	1:A6:197:LEU:HD23	1.80	0.63
1:AD:104:VAL:HG22	1:AD:197:LEU:HD23	1.80	0.63
1:A2:110:GLY:N	1:AY:242:ASN:HD22	1.95	0.63
1:A1:110:GLY:N	1:A2:242:ASN:HD22	1.95	0.63
1:AH:230:ARG:NH2	3:DJ:83:ALA:HB1	106.93	0.63
1:AL:230:ARG:NH2	3:DL:83:ALA:HB1	2.14	0.63
1:BG:230:ARG:NH2	3:EC:83:ALA:HB1	2.14	0.63
1:AP:230:ARG:NH2	3:DP:83:ALA:HB1	2.14	0.63
3:DX:115:ALA:HB1	3:DX:194:THR:OG1	1.98	0.63
3:D9:110:PHE:CB	3:D9:148:VAL:HG11	2.29	0.63
3:DL:110:PHE:CB	3:DL:148:VAL:HG11	2.29	0.63
2:CD:32:THR:HG23	2:CD:172:HIS:CE1	2.33	0.63
2:C2:32:THR:HG23	2:C2:172:HIS:CE1	2.33	0.63
3:DB:110:PHE:CB	3:DB:148:VAL:HG11	2.29	0.63
2:CC:117:SER:HB3	3:DN:192:THR:HG22	161.55	0.63
3:DI:66:ASN:HB3	3:DI:191:LEU:O	1.99	0.63
3:DM:66:ASN:HB3	3:DM:191:LEU:O	1.99	0.63
3:DH:66:ASN:HB3	3:DH:191:LEU:O	1.99	0.63
2:CZ:63:THR:H	3:DQ:139:MET:HG3	84.65	0.63
3:DL:66:ASN:HB3	3:DL:191:LEU:O	1.99	0.63
2:C4:117:SER:HB3	3:EC:192:THR:HG22	1.80	0.63
1:AD:143:VAL:H	3:DE:14:PHE:HB3	1.62	0.63
1:AF:88:PHE:CE1	1:AF:205:GLY:CA	2.81	0.63
1:AG:143:VAL:H	3:DH:14:PHE:HB3	1.62	0.63
1:AJ:143:VAL:H	3:DF:14:PHE:HB3	1.62	0.63
1:AT:87:GLN:O	1:AT:88:PHE:HB3	1.98	0.63
1:AX:88:PHE:CE1	1:AX:205:GLY:CA	2.81	0.63
1:BH:121:LEU:CD2	1:BI:207:CYS:H	2.12	0.63
3:EB:42:ASN:HD22	3:EB:44:ILE:H	1.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:143:VAL:H	3:D3:14:PHE:HB3	1.62	0.63
1:AB:164:TRP:HZ2	1:AB:187:LEU:HD21	1.58	0.63
1:AI:187:LEU:CD2	1:AI:188:PRO:HD2	2.25	0.63
2:CX:208:THR:O	2:CX:209:VAL:HG23	1.99	0.63
2:CQ:208:THR:O	2:CQ:209:VAL:HG23	1.99	0.63
2:CO:208:THR:O	2:CO:209:VAL:HG23	1.99	0.63
3:EB:53:PHE:CE2	3:EB:205:LEU:HB3	2.31	0.63
3:DT:53:PHE:CE2	3:DT:205:LEU:HB3	2.31	0.63
2:CH:120:HIS:HA	2:CH:203:THR:O	1.98	0.63
3:DB:132:PRO:HG2	3:DB:184:GLN:HE22	1.62	0.63
1:AW:104:VAL:HG22	1:AW:197:LEU:HD23	1.80	0.63
1:AI:230:ARG:NH2	3:DK:83:ALA:HB1	272.66	0.63
1:AK:230:ARG:NH2	3:DM:83:ALA:HB1	106.93	0.63
1:AR:230:ARG:NH2	3:DR:83:ALA:HB1	2.14	0.63
1:BH:230:ARG:NH2	3:ED:83:ALA:HB1	2.14	0.63
1:AN:230:ARG:NH2	3:DB:83:ALA:HB1	205.64	0.63
1:A5:230:ARG:NH2	3:D6:83:ALA:HB1	2.14	0.63
1:A0:230:ARG:NH2	3:D1:83:ALA:HB1	2.14	0.63
2:CI:32:THR:HG23	2:CI:172:HIS:CE1	2.33	0.63
3:DD:110:PHE:CB	3:DD: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:DM:110:PHE:CB	3:DM:148:VAL:HG11	2.29	0.63
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
2:CL:63:THR:H	3:D8:139:MET:HG3	123.23	0.63
2:CD:117:SER:HB3	3:D7:192:THR:HG22	1.80	0.63
2:CD:63:THR:H	3:D4:139:MET:HG3	136.55	0.63
2:C1:117:SER:HB3	3:DO:192:THR:HG22	1.80	0.63
3:DR:66:ASN:HB3	3:DR:191:LEU:O	1.99	0.63
3:DU:66:ASN:HB3	3:DU:191:LEU:O	1.99	0.63
2:CS:63:THR:H	3:EA:139:MET:HG3	155.50	0.63
3:D6:66:ASN:HB3	3:D6:191:LEU:O	1.99	0.63
3:DS:101:ARG:NH1	3:DS:165:ASP:HB3	2.13	0.63
3:DV:101:ARG:NH1	3:DV:165:ASP:HB3	2.13	0.63
1:AD:143:VAL:H	3:DG:14:PHE:HB3	134.70	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:BF:143:VAL:H	3:EC:14:PHE:HB3	1.62	0.63
3:DI:42:ASN:HD22	3:DI:44:ILE:H	1.46	0.63
3:DV:42:ASN:HD22	3:DV:44:ILE:H	1.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:187:LEU:CD2	1:AP:188:PRO:HD2	2.25	0.63
2:CL:208:THR:O	2:CL:209:VAL:HG23	1.99	0.63
2:C5:208:THR:O	2:C5:209:VAL:HG23	1.99	0.63
1:A4:104:VAL:HG22	1:A4:197:LEU:HD23	1.80	0.63
1:BC:104:VAL:HG22	1:BC:197:LEU:HD23	1.80	0.63
1:A3:110:GLY:N	1:A4:242:ASN:HD22	1.95	0.63
1:A9:230:ARG:NH2	3:DA:83:ALA:HB1	252.22	0.63
1:A7:230:ARG:NH2	3:D8:83:ALA:HB1	2.14	0.63
3:EC:110:PHE:CB	3:EC:148:VAL:HG11	2.29	0.63
2:C6:32:THR:HG23	2:C6:172:HIS:CE1	2.33	0.63
3:DZ:110:PHE:CB	3:DZ:148:VAL:HG11	2.29	0.63
3:DS:66:ASN:HB3	3:DS:191:LEU:O	1.99	0.63
2:CV:115:ASN:C	3:DB:119:LYS:HZ3	2.02	0.63
2:CU:63:THR:H	3:D5:139:MET:HG3	253.20	0.63
2:CO:117:SER:HB3	3:DP:192:THR:HG22	1.80	0.63
3:EB:66:ASN:HB3	3:EB:191:LEU:O	1.99	0.63
2:CA:115:ASN:C	3:DL:119:LYS:HZ3	258.08	0.63
2:C9:117:SER:HB3	3:DL:192:THR:HG22	95.45	0.63
3:D2:66:ASN:HB3	3:D2:191:LEU:O	1.99	0.63
3:DF:66:ASN:HB3	3:DF:191:LEU:O	1.99	0.63
2:CP:117:SER:HB3	3:D1:192:THR:HG22	1.80	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:DO:101:ARG:NH1	3:DO:165:ASP:HB3	2.13	0.63
1:AD:121:LEU:CD2	1:AE:207:CYS:H	2.12	0.63
1:AP:88:PHE:CE1	1:AP:205:GLY:CA	2.81	0.63
1:AX:87:GLN:O	1:AX:88:PHE:HB3	1.98	0.63
1:BD:143:VAL:H	3:DO:14:PHE:HB3	220.18	0.63
1:BG:88:PHE:CE1	1:BG:205:GLY:CA	2.81	0.63
1:AL:143:VAL:H	3:DJ:14:PHE:HB3	269.86	0.63
3:DE:42:ASN:HD22	3:DE:44:ILE:H	1.46	0.63
1:AU:121:LEU:CD2	1:AV:207:CYS:H	2.12	0.63
2:CE:208:THR:O	2:CE:209:VAL:HG23	1.99	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
3:D9:53:PHE:CE2	3:D9:205:LEU:HB3	2.31	0.63
3:DZ:132:PRO:HG2	3:DZ:184:GLN:HE22	1.62	0.63
1:A0:104:VAL:HG22	1:A0:197:LEU:HD23	1.80	0.63
1:AI:104:VAL:HG22	1:AI:197:LEU:HD23	1.80	0.63
1:AL:104:VAL:HG22	1:AL:197:LEU:HD23	1.80	0.63
1:BH:104:VAL:HG22	1:BH:197:LEU:HD23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:104:VAL:HG22	1:BA:197:LEU:HD23	1.80	0.63
1:AC:230:ARG:NH2	3:DC:83:ALA:HB1	2.14	0.63
1:AI:230:ARG:NH2	3:DI:83:ALA:HB1	2.14	0.63
1:AD:230:ARG:NH2	3:DF:83:ALA:HB1	126.06	0.63
1:A1:230:ARG:NH2	3:D2:83:ALA:HB1	2.14	0.63
3:DE:110:PHE:CB	3:DE:148:VAL:HG11	2.29	0.63
3:D0:115:ALA:HB1	3:D0:194:THR:OG1	1.97	0.63
2:CB:32:THR:HG23	2:CB:172:HIS:CE1	2.33	0.63
3:DG:110:PHE:CB	3:DG:148:VAL:HG11	2.29	0.63
3:D9:66:ASN:HB3	3:D9:191:LEU:O	1.99	0.63
3:DB:66:ASN:HB3	3:DB:191:LEU:O	1.99	0.63
3:DD:66:ASN:HB3	3:DD:191:LEU:O	1.99	0.63
3:EE:66:ASN:HB3	3:EE:191:LEU:O	1.99	0.63
2:CT:117:SER:HB3	3:DK:192:THR:HG22	1.80	0.63
3:D4:66:ASN:HB3	3:D4:191:LEU:O	1.99	0.63
2:C9:63:THR:H	3:DL:139:MET:HG3	84.65	0.63
3:DT:66:ASN:HB3	3:DT:191:LEU:O	1.99	0.63
3:DC:101:ARG:NH1	3:DC:165:ASP:HB3	2.13	0.63
3:DE:101:ARG:NH1	3:DE:165:ASP:HB3	2.13	0.63
3:DX:101:ARG:NH1	3:DX:165:ASP:HB3	2.13	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: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
3:DN:42:ASN:HD22	3:DN:44:ILE:H	1.46	0.63
1:AY:87:GLN:O	1:AY:88:PHE:HB3	1.98	0.63
2:CP:208:THR:O	2:CP:209:VAL:HG23	1.99	0.63
2:C1:208:THR:O	2:C1:209:VAL:HG23	1.99	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
3:DB:53:PHE:CE2	3:DB:205:LEU:HB3	2.31	0.63
3:D7:53:PHE:CE2	3:D7:205:LEU:HB3	2.31	0.63
2:C6:120:HIS:HA	2:C6:203:THR:O	1.98	0.63
1:BB:230:ARG:NH2	3:DQ:83:ALA:HB1	116.01	0.63
1:AU:230:ARG:NH2	3:DV:83:ALA:HB1	2.14	0.63
1:AL:230:ARG:NH2	3:DN:83:ALA:HB1	106.93	0.63
3:EA:110:PHE:CB	3:EA:148:VAL:HG11	2.29	0.63
3:DS:110:PHE:CB	3:DS:148:VAL:HG11	2.29	0.63
3:DP:110:PHE:CB	3:DP:148:VAL:HG11	2.29	0.63
3:DX:110:PHE:CB	3:DX:148:VAL:HG11	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:63:THR:H	3:DS:139:MET:HG3	231.48	0.62
3:D5:66:ASN:HB3	3:D5:191:LEU:O	1.99	0.62
2:CO:63:THR:H	3:DP:139:MET:HG3	1.63	0.62
2:CG:115:ASN:C	3:D3:119:LYS:HZ3	258.08	0.62
3:DQ:66:ASN:HB3	3:DQ:191:LEU:O	1.99	0.62
2:CN:63:THR:H	3:D2:139:MET:HG3	1.63	0.62
2:CN:63:THR:H	3:DE:139:MET:HG3	252.92	0.62
1:AF:19:LEU:CD1	3:DF:160:TYR:HB3	2.29	0.62
1:AB:19:LEU:CD1	3:DD:160:TYR:HB3	89.16	0.62
1:AX:19:LEU:CD1	3:DY:160:TYR:HB3	2.30	0.62
1:AK:207:CYS:H	1:AO:121:LEU:CD2	2.12	0.62
1:AP:87:GLN:O	1:AP:88:PHE:HB3	1.98	0.62
3:DA:27:PRO:HB3	4:FA:30:TYR:HA	1.82	0.62
1:A3:88:PHE:CE1	1:A3:205:GLY:CA	2.81	0.62
1:AD:187:LEU:CD2	1:AD:188:PRO:HD2	2.25	0.62
1:AH:187:LEU:CD2	1:AH:188:PRO:HD2	2.25	0.62
2:CA:69:TRP:CZ3	2:CA:124:LEU:HG	2.34	0.62
2:CF:69:TRP:CZ3	2:CF:124:LEU:HG	2.34	0.62
2:C8:69:TRP:CZ3	2:C8:124:LEU:HG	2.34	0.62
2:CJ:69:TRP:CZ3	2:CJ:124:LEU:HG	2.34	0.62
2:CT:69:TRP:CZ3	2:CT:124:LEU:HG	2.34	0.62
2:CW:69:TRP:CZ3	2:CW:124:LEU:HG	2.34	0.62
2:CI:69:TRP:CZ3	2:CI:124:LEU:HG	2.34	0.62
1:BD:104:VAL:HG22	1:BD:197:LEU:HD23	1.80	0.62
1:AB:104:VAL:HG22	1:AB:197:LEU:HD23	1.80	0.62
1:AT:230:ARG:NH2	3:DU:83:ALA:HB1	2.14	0.62
1:AC:230:ARG:NH2	3:DE:83:ALA:HB1	106.93	0.62
1:AM:230:ARG:NH2	3:DM:83:ALA:HB1	2.14	0.62
1:AA:230:ARG:NH2	3:DC:83:ALA:HB1	106.93	0.62
1:AE:230:ARG:NH2	3:DE:83:ALA:HB1	2.14	0.62
1:AO:230:ARG:NH2	3:DO:83:ALA:HB1	2.14	0.62
1:AQ:230:ARG:NH2	3:DQ:83:ALA:HB1	2.14	0.62
1:AH:230:ARG:NH2	3:DH:83:ALA:HB1	2.14	0.62
3:D2:110:PHE:CB	3:D2:148:VAL:HG11	2.29	0.62
3:D5:115:ALA:HB1	3:D5:194:THR:OG1	1.98	0.62
2:C8:117:SER:HB3	3:D9:192:THR:HG22	1.80	0.62
2:C2:117:SER:HB3	3:DH:192:THR:HG22	262.58	0.62
3:DG:66:ASN:HB3	3:DG:191:LEU:O	1.99	0.62
3:DP:66:ASN:HB3	3:DP:191:LEU:O	1.99	0.62
2:CP:63:THR:H	3:D0:139:MET:HG3	84.73	0.62
2:CF:63:THR:H	3:DV:139:MET:HG3	196.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:63:THR:H	3:D6:139:MET:HG3	1.63	0.62
1:A8:19:LEU:CD1	3:D9:160:TYR:HB3	2.29	0.62
1:AF:19:LEU:CD1	3:DH:160:TYR:HB3	89.16	0.62
1:AO:19:LEU:CD1	3:DS:160:TYR:HB3	148.87	0.62
1:BF:19:LEU:CD1	3:EB:160:TYR:HB3	2.29	0.62
3:D0:101:ARG:NH1	3:D0:165:ASP:HB3	2.13	0.62
3:D6:101:ARG:NH1	3:D6:165:ASP:HB3	2.13	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
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:D7:42:ASN:HD22	3:D7:44:ILE:H	1.46	0.62
3:D1:42:ASN:HD22	3:D1:44:ILE:H	1.46	0.62
1:AY:121:LEU:CD2	1:AZ:207:CYS:H	2.12	0.62
3:D7:27:PRO:HB3	4:F7:30:TYR:HA	1.82	0.62
1:BI:187:LEU:CD2	1:BI:188:PRO:HD2	2.25	0.62
3:DV:53:PHE:CE2	3:DV:205:LEU:HB3	2.31	0.62
3:DF:53:PHE:CE2	3:DF:205:LEU:HB3	2.31	0.62
2:CV:69:TRP:CZ3	2:CV:124:LEU:HG	2.35	0.62
2:CH:69:TRP:CZ3	2:CH:124:LEU:HG	2.35	0.62
2:CE:69:TRP:CZ3	2:CE:124:LEU:HG	2.34	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
1:AV:104:VAL:HG22	1:AV:197:LEU:HD23	1.80	0.62
1:AG:230:ARG:NH2	3:DG:83:ALA:HB1	2.14	0.62
1:AO:230:ARG:NH2	3:DS:83:ALA:HB1	158.72	0.62
1:AW:230:ARG:NH2	3:DX:83:ALA:HB1	2.14	0.62
1:AJ:230:ARG:NH2	3:DL:83:ALA:HB1	280.28	0.62
1:A3:230:ARG:NH2	3:D4:83:ALA:HB1	2.14	0.62
2:CV:65:LYS:HB2	3:DD:135:ARG:HH21	146.74	0.62
3:DU:110:PHE:CB	3:DU:148:VAL:HG11	2.29	0.62
3:EE:110:PHE:CB	3:EE:148:VAL:HG11	2.29	0.62
3:EC:115:ALA:HB1	3:EC:194:THR:OG1	1.98	0.62
3:D6:110:PHE:CB	3:D6:148:VAL:HG11	2.28	0.62
3:D7:110:PHE:CB	3:D7:148:VAL:HG11	2.29	0.62
2:CT:63:THR:H	3:DK:139:MET:HG3	1.63	0.62
2:CQ:115:ASN:C	3:DY:119:LYS:HZ3	112.78	0.62
2:CY:117:SER:HB3	3:DZ:192:THR:HG22	1.80	0.62
3:DC:66:ASN:HB3	3:DC:191:LEU:O	1.99	0.62
1:AL:19:LEU:CD1	3:DL:160:TYR:HB3	2.29	0.62
3:D3:101:ARG:NH1	3:D3:165:ASP:HB3	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:19:LEU:CD1	3:D7:160:TYR:HB3	2.29	0.62
1:A8:38:PHE:HD1	1:AB:137:GLY:HA2	204.73	0.62
1:AC:137:GLY:HA2	1:AD:38:PHE:HD1	1.65	0.62
1:AD:88:PHE:CE1	1:AD:205:GLY:CA	2.81	0.62
1:AI:137:GLY:HA2	1:AJ:38:PHE:HD1	1.64	0.62
1:AI:143:VAL:H	3:DJ:14:PHE:HB3	1.62	0.62
1:AJ:143:VAL:H	3:DM:14:PHE:HB3	269.47	0.62
1:AT:137:GLY:HA2	1:AU:38:PHE:HD1	1.64	0.62
1:BD:87:GLN:O	1:BD:88:PHE:HB3	1.98	0.62
1:AF:143:VAL:H	3:DI:14:PHE:HB3	33.16	0.62
3:DI:27:PRO:HB3	4:FI:30:TYR:HA	1.82	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
1:A4:88:PHE:CE1	1:A4:205:GLY:CA	2.81	0.62
3:D0:27:PRO:HB3	4:F0:30:TYR:HA	1.81	0.62
1:A6:187:LEU:CD2	1:A6:188:PRO:HD2	2.25	0.62
1:AW:164:TRP:HZ2	1:AW:187:LEU:HD21	1.58	0.62
2:C4:208:THR:O	2:C4:209:VAL:HG23	1.99	0.62
2:CC:15:GLU:HG3	2:CC:29:SER:CB	2.30	0.62
2:CR:69:TRP:CZ3	2:CR:124:LEU:HG	2.34	0.62
2:C2:69:TRP:CZ3	2:C2:124:LEU:HG	2.34	0.62
2:C6:69:TRP:CZ3	2:C6:124:LEU:HG	2.35	0.62
1:A6:230:ARG:NH2	3:D7:83:ALA:HB1	2.14	0.62
1:AD:230:ARG:NH2	3:DD:83:ALA:HB1	2.14	0.62
3:DW:110:PHE:CB	3:DW:148:VAL:HG11	2.29	0.62
2:CO:23:ILE:N	2:CO:23:ILE:HD12	2.15	0.62
2:CV:23:ILE:N	2:CV:23:ILE:HD12	2.15	0.62
2:CW:63:THR:H	3:DJ:139:MET:HG3	1.63	0.62
2:CL:117:SER:HB3	3:D8:192:THR:HG22	109.79	0.62
2:C5:63:THR:H	3:DG:139:MET:HG3	1.63	0.62
2:CA:63:THR:H	3:DL:139:MET:HG3	253.20	0.62
3:D0:66:ASN:HB3	3:D0:191:LEU:O	1.99	0.62
1:AG:19:LEU:CD1	3:DI:160:TYR:HB3	89.16	0.62
3:DT:101:ARG:NH1	3:DT:165:ASP:HB3	2.13	0.62
1:BH:19:LEU:CD1	3:ED:160:TYR:HB3	2.29	0.62
1:AA:143:VAL:H	3:DD:14:PHE:HB3	33.16	0.62
1:AA:38:PHE:HD1	1:AE:137:GLY:HA2	1.65	0.62
1:AQ:87:GLN:O	1:AQ:88:PHE:HB3	1.98	0.62
1:AW:137:GLY:HA2	1:AX:38:PHE:HD1	1.65	0.62
1:BB:88:PHE:CE1	1:BB:205:GLY:CA	2.81	0.62
1:BE:137:GLY:HA2	1:BF:38:PHE:HD1	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:27:PRO:HB3	4:FU:30:TYR:HA	1.82	0.62
3:EC:27:PRO:HB3	4:FV:30:TYR:HA	215.81	0.62
3:D8:42:ASN:HD22	3:D8:44:ILE:H	1.46	0.62
3:D5:42:ASN:HD22	3:D5:44:ILE:H	1.46	0.62
3:D0:42:ASN:HD22	3:D0:44:ILE:H	1.46	0.62
1:AU:143:VAL:H	3:DW:14:PHE:HB3	1.62	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
3:D2:27:PRO:HB3	4:F2:30:TYR:HA	1.82	0.62
1:A8:187:LEU:CD2	1:A8:188:PRO:HD2	2.25	0.62
2:C9:208:THR:O	2:C9:209:VAL:HG23	1.99	0.62
2:CH:208:THR:O	2:CH:209:VAL:HG23	1.99	0.62
2:CA:208:THR:O	2:CA:209:VAL:HG23	1.99	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:AK:130:ILE:HD11	1:AK:135:VAL:CG1	2.30	0.62
3:D1:53:PHE:CE2	3:D1:205:LEU:HB3	2.31	0.62
2:CG:69:TRP:CZ3	2:CG:124:LEU:HG	2.34	0.62
2:CZ:69:TRP:CZ3	2:CZ:124:LEU:HG	2.35	0.62
2:CC:69:TRP:CZ3	2:CC:124:LEU:HG	2.34	0.62
2:CO:69:TRP:CZ3	2:CO:124:LEU:HG	2.34	0.62
2:CB:69:TRP:CZ3	2:CB:124:LEU:HG	2.34	0.62
1:AU:104:VAL:HG22	1:AU:197:LEU:HD23	1.80	0.62
1:BE:104:VAL:HG22	1:BE:197:LEU:HD23	1.80	0.62
1:BE:230:ARG:NH2	3:EA:83:ALA:HB1	2.14	0.62
1:AF:230:ARG:NH2	3:DH:83:ALA:HB1	106.93	0.62
2:C7:23:ILE:HD12	2:C7:23:ILE:N	2.15	0.62
3:DT:115:ALA:HB1	3:DT:194:THR:OG1	1.98	0.62
2:CL:23:ILE:N	2:CL:23:ILE:HD12	2.15	0.62
2:CU:18:VAL:HG13	2:CU:23:ILE:HG13	1.82	0.62
2:CM:23:ILE:HD12	2:CM:23:ILE:N	2.15	0.62
3:ED:66:ASN:HB3	3:ED:191:LEU:O	1.99	0.62
2:CP:117:SER:HB3	3:D0:192:THR:HG22	97.13	0.62
2:C4:63:THR:H	3:EC:139:MET:HG3	1.63	0.62
1:AG:19:LEU:CD1	3:DG:160:TYR:HB3	2.29	0.62
1:AS:19:LEU:CD1	3:DT:160:TYR:HB3	2.29	0.62
1:AN:19:LEU:CD1	3:DN:160:TYR:HB3	2.29	0.62
3:D5:101:ARG:NH1	3:D5:165:ASP:HB3	2.13	0.62
1:A2:19:LEU:CD1	3:D3:160:TYR:HB3	2.30	0.62
3:DZ:101:ARG:NH1	3:DZ:165:ASP:HB3	2.13	0.62
1:BE:19:LEU:CD1	3:EA:160:TYR:HB3	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:19:LEU:CD1	3:D1:160:TYR:HB3	2.29	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:AN:143:VAL:H	3:DC:14:PHE:HB3	227.96	0.62
1:AP:143:VAL:H	3:DQ:14:PHE:HB3	1.62	0.62
1:AO:137:GLY:HA2	1:AS:38:PHE:HD1	98.06	0.62
1:BE:38:PHE:HD1	1:BI:137:GLY:HA2	1.65	0.62
3:DV:27:PRO:HB3	4:FV:30:TYR:HA	1.82	0.62
3:DE:27:PRO:HB3	4:FE:30:TYR:HA	1.82	0.62
3:DF:27:PRO:HB3	4:FF:30:TYR:HA	1.81	0.62
3:EB:27:PRO:HB3	4:FU:30:TYR:HA	219.89	0.62
3:DY:27:PRO:HB3	4:FY:30:TYR:HA	1.82	0.62
3:EE:42:ASN:HD22	3:EE:44:ILE:H	1.46	0.62
1:AI:74:THR:HG21	3:DI:43:PHE:CZ	2.35	0.62
3:DK:42:ASN:HD22	3:DK:44:ILE:H	1.46	0.62
3:EC:42:ASN:HD22	3:EC:44:ILE:H	1.46	0.62
1:BG:137:GLY:HA2	1:BH:38:PHE:HD1	1.65	0.62
3:ED:27:PRO:HB3	4:FW:30:TYR:HA	194.17	0.62
1:A2:137:GLY:HA2	1:AY:38:PHE:HD1	1.65	0.62
1:AY:164:TRP:HZ2	1:AY:187:LEU:HD21	1.58	0.62
1:A1:187:LEU:CD2	1:A1:188:PRO:HD2	2.25	0.62
1:BI:164:TRP:HZ2	1:BI:187:LEU:HD21	1.58	0.62
2:CT:208:THR:O	2:CT:209:VAL:HG23	1.99	0.62
2:CG:208:THR:O	2:CG:209:VAL:HG23	1.99	0.62
1:A2:130:ILE:HD11	1:A2:135:VAL:CG1	2.30	0.62
3:DH:53:PHE:CE2	3:DH:205:LEU:HB3	2.31	0.62
3:DL:53:PHE:CE2	3:DL:205:LEU:HB3	2.31	0.62
2:CD:15:GLU:HG3	2:CD:29:SER:CB	2.30	0.62
2:C4:15:GLU:HG3	2:C4:29:SER:CB	2.30	0.62
2:C3:120:HIS:HA	2:C3:203:THR:O	1.98	0.62
2:CG:15:GLU:HG3	2:CG:29:SER:CB	2.30	0.62
2:CV:15:GLU:HG3	2:CV:29:SER:CB	2.30	0.62
2:CQ:69:TRP:CZ3	2:CQ:124:LEU:HG	2.34	0.62
3:EE:132:PRO:HG2	3:EE:184:GLN:HE22	1.62	0.62
1:AA:230:ARG:NH2	3:DA:83:ALA:HB1	2.14	0.62
1:AX:230:ARG:NH2	3:DY:83:ALA:HB1	2.14	0.62
1:AV:230:ARG:NH2	3:DW:83:ALA:HB1	2.14	0.62
2:CU:23:ILE:N	2:CU:23:ILE:HD12	2.15	0.62
3:D0:110:PHE:CB	3:D0:148:VAL:HG11	2.29	0.62
2:C0:23:ILE:N	2:C0:23:ILE:HD12	2.15	0.62
2:CB:18:VAL:HG13	2:CB:23:ILE:HG13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CK:23:ILE:HD12	2:CK: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
2:CG:23:ILE:N	2:CG:23:ILE:HD12	2.15	0.62
2:CG:18:VAL:HG13	2:CG:23:ILE:HG13	1.82	0.62
2:CY:23:ILE:N	2:CY:23:ILE:HD12	2.15	0.62
2:CH:18:VAL:HG13	2:CH:23:ILE:HG13	1.82	0.62
2:CV:115:ASN:C	3:DD:119:LYS:HZ3	151.65	0.62
2:CV:63:THR:H	3:DB:139:MET:HG3	1.63	0.62
3:D7:66:ASN:HB3	3:D7:191:LEU:O	1.99	0.62
2:CG:117:SER:HB3	3:EB:192:THR:HG22	1.80	0.62
3:DE:66:ASN:HB3	3:DE:191:LEU:O	1.99	0.62
1:AJ:19:LEU:CD1	3:DL:160:TYR:HB3	242.83	0.62
1:AM:19:LEU:CD1	3:DO:160:TYR:HB3	89.16	0.62
1:AO:19:LEU:CD1	3:DO:160:TYR:HB3	2.29	0.62
1:AE:19:LEU:CD1	3:DG:160:TYR:HB3	95.45	0.62
1:AH:19:LEU:CD1	3:DJ:160:TYR:HB3	89.16	0.62
1:BD:19:LEU:CD1	3:DS:160:TYR:HB3	142.34	0.62
3:DW:101:ARG:NH1	3:DW:165:ASP:HB3	2.13	0.62
1:A8:137:GLY:HA2	1:A9:38:PHE:HD1	1.65	0.62
1:AK:137:GLY:HA2	1:AL:38:PHE:HD1	1.65	0.62
1:AM:38:PHE:HD1	1:BD:137:GLY:HA2	233.95	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:BC:121:LEU:CD2	1:BD:207:CYS:H	2.12	0.62
3:DN:27:PRO:HB3	4:FN:30:TYR:HA	1.82	0.62
3:DL:27:PRO:HB3	4:FL:30:TYR:HA	1.82	0.62
1:BD:74:THR:HG21	3:DS:43:PHE:CZ	147.49	0.62
1:A9:74:THR:HG21	3:DA:43:PHE:CZ	228.58	0.62
3:EA:42:ASN:HD22	3:EA:44:ILE:H	1.46	0.62
1:A6:137:GLY:HA2	1:A7:38:PHE:HD1	1.65	0.62
2:CU:208:THR:O	2:CU:209:VAL:HG23	1.99	0.62
2:C6:208:THR:O	2:C6:209:VAL:HG23	1.99	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
1:A1:130:ILE:HD11	1:A1:135:VAL:CG1	2.30	0.62
1:AI:130:ILE:HD11	1:AI:135:VAL:CG1	2.30	0.62
1:AF:130:ILE:HD11	1:AF:135:VAL:CG1	2.30	0.62
1:AU:130:ILE:HD11	1:AU:135:VAL:CG1	2.30	0.62
1:AH:130:ILE:HD11	1:AH:135:VAL:CG1	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:15:GLU:HG3	2:C1:29:SER:CB	2.30	0.62
2:CI:15:GLU:HG3	2:CI:29:SER:CB	2.30	0.62
2:CK:15:GLU:HG3	2:CK:29:SER:CB	2.30	0.62
2:CW:15:GLU:HG3	2:CW:29:SER:CB	2.30	0.62
2:CL:15:GLU:HG3	2:CL:29:SER:CB	2.30	0.62
2:CK:69:TRP:CZ3	2:CK:124:LEU:HG	2.34	0.62
2:CU:69:TRP:CZ3	2:CU:124:LEU:HG	2.34	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
1:AH:104:VAL:HG22	1:AH:197:LEU:HD23	1.80	0.62
1:AE:230:ARG:NH2	3:DG:83:ALA:HB1	112.58	0.62
1:AF:230:ARG:NH2	3:DF:83:ALA:HB1	2.14	0.62
2:CV:18:VAL:HG13	2:CV:23:ILE:HG13	1.82	0.62
2:CH:23:ILE:N	2:CH:23:ILE:HD12	2.15	0.62
2:CR:18:VAL:HG13	2:CR:23:ILE:HG13	1.82	0.62
2:C8:23:ILE:HD12	2:C8:23:ILE:N	2.15	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:CJ:23:ILE:HD12	2:CJ:23:ILE:N	2.15	0.62
2:CT:23:ILE:HD12	2:CT:23:ILE:N	2.15	0.62
3:D3:110:PHE:CB	3:D3:148:VAL:HG11	2.29	0.62
2:C4:23:ILE:HD12	2:C4:23:ILE:N	2.15	0.62
2:CQ:23:ILE:N	2:CQ:23:ILE:HD12	2.15	0.62
2:CM:117:SER:HB3	3:DI:192:THR:HG22	263.54	0.62
2:CQ:63:THR:H	3:DP:139:MET:HG3	120.81	0.62
2:CG:207:GLN:HE22	3:D3:192:THR:HA	267.28	0.62
2:CE:115:ASN:C	3:DF:119:LYS:HZ3	2.02	0.62
2:CB:207:GLN:HE22	3:DT:192:THR:HA	267.46	0.62
2:CF:117:SER:HB3	3:D6:192:THR:HG22	1.80	0.62
3:DV:66:ASN:HB3	3:DV:191:LEU:O	1.99	0.62
1:AA:19:LEU:CD1	3:DA:160:TYR:HB3	2.29	0.62
1:AC:19:LEU:CD1	3:DC:160:TYR:HB3	2.30	0.62
1:AB:19:LEU:CD1	3:DB:160:TYR:HB3	2.30	0.62
1:AD:19:LEU:CD1	3:DF:160:TYR:HB3	114.98	0.62
1:BA:19:LEU:CD1	3:DP:160:TYR:HB3	116.81	0.62
1:AU:19:LEU:CD1	3:DV:160:TYR:HB3	2.29	0.62
3:D7:101:ARG:NH1	3:D7:165:ASP:HB3	2.13	0.62
1:A5:19:LEU:CD1	3:D6:160:TYR:HB3	2.29	0.62
3:DB:27:PRO:HB3	4:FB:30:TYR:HA	1.82	0.62
1:AH:74:THR:HG21	3:DJ:43:PHE:CZ	74.14	0.62
3:D4:27:PRO:HB3	4:F4:30:TYR:HA	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:87:GLN:O	1:BH:88:PHE:HB3	1.98	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:AC:130:ILE:HD11	1:AC:135:VAL:CG1	2.30	0.62
2:CX:15:GLU:HG3	2:CX:29:SER:CB	2.30	0.62
2:CJ:15:GLU:HG3	2:CJ:29:SER:CB	2.30	0.62
2:CF:15:GLU:HG3	2:CF:29:SER:CB	2.30	0.62
2:CP:69:TRP:CZ3	2:CP:124:LEU:HG	2.34	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:CD:69:TRP:CZ3	2:CD:124:LEU:HG	2.34	0.62
2:CN:69:TRP:CZ3	2:CN:124:LEU:HG	2.35	0.62
2:CL:69:TRP:CZ3	2:CL:124:LEU:HG	2.35	0.62
1:BG:104:VAL:HG22	1:BG:197:LEU:HD23	1.80	0.62
1:A2:104:VAL:HG22	1:A2:197:LEU:HD23	1.80	0.62
1:BD:230:ARG:NH2	3:DS:83:ALA:HB1	165.58	0.62
1:BC:230:ARG:NH2	3:DR:83:ALA:HB1	156.23	0.62
1:AB:230:ARG:NH2	3:DD:83:ALA:HB1	106.93	0.62
1:A8:230:ARG:NH2	3:D9:83:ALA:HB1	2.14	0.62
1:AS:230:ARG:NH2	3:DT:83:ALA:HB1	2.14	0.62
2:CB:23:ILE:HD12	2:CB:23:ILE:N	2.15	0.62
2:CX:23:ILE:HD12	2:CX:23:ILE:N	2.15	0.62
2:CA:18:VAL:HG13	2:CA:23:ILE:HG13	1.82	0.62
2:CS:23:ILE:HD12	2:CS:23:ILE:N	2.15	0.62
1:BC:74:THR:HG21	3:DR:43:PHE:CZ	142.85	0.62
2:CD:23:ILE:N	2:CD:23:ILE:HD12	2.15	0.62
2:CN:18:VAL:HG13	2:CN:23:ILE:HG13	1.82	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:CP:18:VAL:HG13	2:CP:23:ILE:HG13	1.82	0.62
2:CI:115:ASN:C	3:DJ:119:LYS:HZ3	71.15	0.62
2:CH:207:GLN:HE22	3:DS:192:THR:HA	166.21	0.62
2:C7:207:GLN:HE22	3:DM:192:THR:HA	161.27	0.62
2:CJ:207:GLN:HE22	3:DA:192:THR:HA	1.65	0.62
2:CR:63:THR:H	3:DI:139:MET:HG3	156.73	0.62
3:D8:66:ASN:HB3	3:D8:191:LEU:O	1.99	0.62
2:CO:115:ASN:C	3:DP:119:LYS:HZ3	2.03	0.62
2:CZ:207:GLN:HE22	3:DQ:192:THR:HA	95.98	0.62
1:AK:19:LEU:CD1	3:DM:160:TYR:HB3	89.16	0.62
1:AT:19:LEU:CD1	3:DU:160:TYR:HB3	2.29	0.62
1:AZ:19:LEU:CD1	3:D0:160:TYR:HB3	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:137:GLY:HA2	1:AQ:38:PHE:HD1	1.65	0.62
3:DJ:27:PRO:HB3	4:FJ:30:TYR:HA	1.82	0.62
3:DP:27:PRO:HB3	4:FP:30:TYR:HA	1.81	0.62
1:AG:74:THR:HG21	3:DI:43:PHE:CZ	74.14	0.62
1:AK:74:THR:HG21	3:DM:43:PHE:CZ	74.14	0.62
1:AO:74:THR:HG21	3:DS:43:PHE:CZ	122.95	0.62
1:AB:74:THR:HG21	3:DD:43:PHE:CZ	74.14	0.62
1:AD:74:THR:HG21	3:DD:43:PHE:CZ	2.35	0.62
1:AP:74:THR:HG21	3:DP:43:PHE:CZ	2.35	0.62
1:BA:74:THR:HG21	3:DP:43:PHE:CZ	111.68	0.62
3:DZ:42:ASN:HD22	3:DZ:44:ILE:H	1.46	0.62
2:CK:208:THR:O	2:CK:209:VAL:HG23	1.99	0.62
2:C2:208:THR:O	2:C2:209:VAL:HG23	1.99	0.62
1:AG:130:ILE:HD11	1:AG:135:VAL:CG1	2.30	0.62
1:BE:130:ILE:HD11	1:BE:135:VAL:CG1	2.30	0.62
1:AA:130:ILE:HD11	1:AA:135:VAL:CG1	2.30	0.62
1:A0:130:ILE:HD11	1:A0:135:VAL:CG1	2.30	0.62
2:C9:15:GLU:HG3	2:C9:29:SER:CB	2.30	0.62
2:CP:15:GLU:HG3	2:CP:29:SER:CB	2.30	0.62
3:DX:53:PHE:CE2	3:DX:205:LEU:HB3	2.31	0.62
2:CM:69:TRP:CZ3	2:CM:124:LEU:HG	2.35	0.62
1:AK:230:ARG:NH2	3:DK:83:ALA:HB1	2.14	0.62
1:AZ:230:ARG:NH2	3:D0:83:ALA:HB1	2.14	0.62
2:CJ:18:VAL:HG13	2:CJ:23:ILE:HG13	1.82	0.62
2:CQ:18:VAL:HG13	2:CQ:23:ILE:HG13	1.82	0.62
2:CI:23:ILE:N	2:CI:23:ILE:HD12	2.15	0.62
1:AY:74:THR:HG21	3:DZ:43:PHE:CZ	2.35	0.62
1:A4:74:THR:HG21	3:D5:43:PHE:CZ	2.35	0.62
2:CI:63:THR:H	3:DJ:139:MET:HG3	33.59	0.62
2:CW:213:MET:CE	2:CW:215:VAL:HG22	2.30	0.62
2:CI:207:GLN:HE22	3:DJ:192:THR:HA	76.01	0.62
2:CK:117:SER:HB3	3:DA:192:THR:HG22	278.94	0.62
2:CV:63:THR:H	3:DD:139:MET:HG3	136.55	0.62
2:CK:63:THR:H	3:DB:139:MET:HG3	253.20	0.62
2:CV:207:GLN:HE22	3:DD:192:THR:HA	154.54	0.62
2:CT:63:THR:H	3:DH:139:MET:HG3	225.23	0.62
2:CU:207:GLN:HE22	3:DG:192:THR:HA	259.11	0.62
2:CD:207:GLN:HE22	3:D4:192:THR:HA	154.54	0.62
2:CG:63:THR:H	3:D3:139:MET:HG3	253.20	0.62
2:CA:207:GLN:HE22	3:DW:192:THR:HA	1.65	0.62
2:CN:207:GLN:HE22	3:DE:192:THR:HA	267.38	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:63:THR:H	3:DZ:139:MET:HG3	1.63	0.62
2:CP:115:ASN:C	3:D0:119:LYS:HZ3	92.73	0.62
3:EC:66:ASN:HB3	3:EC:191:LEU:O	1.99	0.62
1:AD:19:LEU:CD1	3:DD:160:TYR:HB3	2.29	0.62
1:AJ:19:LEU:CD1	3:DJ:160:TYR:HB3	2.29	0.62
1:AQ:19:LEU:CD1	3:DQ:160:TYR:HB3	2.30	0.62
1:AD:137:GLY:HA2	1:AE:38:PHE:HD1	1.65	0.62
1:AH:137:GLY:HA2	1:AI:38:PHE:HD1	1.65	0.62
3:DH:27:PRO:HB3	4:FH:30:TYR:HA	1.82	0.62
1:AL:74:THR:HG21	3:DL:43:PHE:CZ	2.35	0.62
1:BH:187:LEU:CD2	1:BH:188:PRO:HD2	2.25	0.62
1:BD:187:LEU:CD2	1:BD:188:PRO:HD2	2.25	0.62
1:A6:88:PHE:CE1	1:A6:205:GLY:CA	2.81	0.62
2:CZ:208:THR:O	2:CZ:209:VAL:HG23	1.99	0.62
2:CI:208:THR:O	2:CI:209:VAL:HG23	1.99	0.62
2:C4:69:TRP:CZ3	2:C4:124:LEU:HG	2.34	0.62
2:C5:69:TRP:CZ3	2:C5:124:LEU:HG	2.35	0.62
1:AM:230:ARG:NH2	3:DO:83:ALA:HB1	106.93	0.62
2:C7:18:VAL:HG13	2:C7:23:ILE:HG13	1.82	0.62
2:CL:18:VAL:HG13	2:CL:23:ILE:HG13	1.82	0.62
1:BF:74:THR:HG21	3:EB:43:PHE:CZ	2.35	0.62
2:CC:23:ILE:HD12	2:CC:23:ILE:N	2.15	0.62
1:A0:74:THR:HG21	3:D1:43:PHE:CZ	2.35	0.62
2:CE:18:VAL:HG13	2:CE:23:ILE:HG13	1.82	0.62
3:D4:110:PHE:CB	3:D4:148:VAL:HG11	2.29	0.62
1:AQ:74:THR:HG21	3:DQ:43:PHE:CZ	2.35	0.62
2:C5:23:ILE:N	2:C5:23:ILE:HD12	2.15	0.62
2:CT:115:ASN:C	3:DH:119:LYS:HZ3	225.02	0.62
2:CT:207:GLN:HE22	3:DH:192:THR:HA	234.93	0.62
2:CU:213:MET:CE	2:CU:215:VAL:HG22	2.30	0.62
2:CP:63:THR:H	3:D1:139:MET:HG3	1.63	0.62
1:AA:19:LEU:CD1	3:DC:160:TYR:HB3	89.16	0.62
3:DG:160:TYR:OH	3:DG:167:MET:HG2	2.00	0.62
1:AW:19:LEU:CD1	3:DX:160:TYR:HB3	2.30	0.62
1:BC:19:LEU:CD1	3:DR:160:TYR:HB3	127.27	0.62
1:AN:137:GLY:HA2	1:AO:38:PHE:HD1	1.65	0.62
1:BB:137:GLY:HA2	1:BC:38:PHE:HD1	1.65	0.62
1:AK:74:THR:HG21	3:DK:43:PHE:CZ	2.35	0.62
1:AB:74:THR:HG21	3:DB:43:PHE:CZ	2.35	0.62
1:AL:74:THR:HG21	3:DN:43:PHE:CZ	74.14	0.62
1:AN:74:THR:HG21	3:DB:43:PHE:CZ	193.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:121:LEU:CD2	1:A7:207:CYS:H	2.12	0.62
1:AU:137:GLY:HA2	1:AV:38:PHE:HD1	1.65	0.62
1:A9:187:LEU:CD2	1:A9:188:PRO:HD2	2.25	0.62
1:BE:164:TRP:HZ2	1:BE:187:LEU:HD21	1.58	0.62
1:AZ:130:ILE:HD11	1:AZ:135:VAL:CG1	2.30	0.62
1:BA:130:ILE:HD11	1:BA:135:VAL:CG1	2.30	0.62
1:AY:130:ILE:HD11	1:AY:135:VAL:CG1	2.30	0.62
3:D8:53:PHE:CE2	3:D8:205:LEU:HB3	2.31	0.62
2:CY:15:GLU:HG3	2:CY:29:SER:CB	2.30	0.62
1:A3:104:VAL:HG22	1:A3:197:LEU:HD23	1.80	0.62
1:AX:104:VAL:HG22	1:AX:197:LEU:HD23	1.80	0.62
1:A9:104:VAL:HG22	1:A9:197:LEU:HD23	1.80	0.62
1:A4:230:ARG:NH2	3:D5:83:ALA:HB1	2.14	0.62
1:BI:230:ARG:NH2	3:EE:83:ALA:HB1	2.14	0.62
2:CN:23:ILE:N	2:CN:23:ILE:HD12	2.15	0.62
2:CI:18:VAL:HG13	2:CI:23:ILE:HG13	1.82	0.62
2:CE:23:ILE:N	2:CE:23:ILE:HD12	2.15	0.62
2:CF:23:ILE:HD12	2:CF:23:ILE:N	2.15	0.62
2:C9:23:ILE:HD12	2:C9:23:ILE:N	2.15	0.62
1:AU:74:THR:HG21	3:DV:43:PHE:CZ	2.35	0.62
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:CW:207:GLN:HE22	3:DJ:192:THR:HA	1.65	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:CC:207:GLN:HE22	3:ED:192:THR:HA	259.81	0.61
2:CL:115:ASN:C	3:D8:119:LYS:HZ3	112.77	0.61
2:CL:213:MET:CE	2:CL:215:VAL:HG22	2.30	0.61
2:CX:213:MET:CE	2:CX:215:VAL:HG22	2.30	0.61
2:C9:213:MET:CE	2:C9:215:VAL:HG22	2.30	0.61
2:CA:213:MET:CE	2:CA:215:VAL:HG22	2.30	0.61
2:CA:207:GLN:HE22	3:DL:192:THR:HA	267.28	0.61
3:DW:66:ASN:HB3	3:DW:191:LEU:O	1.99	0.61
2:CN:213:MET:CE	2:CN:215:VAL:HG22	2.30	0.61
1:A9:19:LEU:CD1	3:DA:160:TYR:HB3	207.88	0.61
1:AO:19:LEU:HB2	2:CN:48:SER:HB2	1.82	0.61
3:DB:160:TYR:OH	3:DB:167:MET:HG2	2.00	0.61
3:DC:160:TYR:OH	3:DC:167:MET:HG2	2.01	0.61
1:AE:19:LEU:CD1	3:DE:160:TYR:HB3	2.29	0.61
1:AI:19:LEU:CD1	3:DK:160:TYR:HB3	229.95	0.61
1:AP:19:LEU:CD1	3:DP:160:TYR:HB3	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:19:LEU:CD1	3:D5:160:TYR:HB3	2.30	0.61
3:D7:160:TYR:OH	3:D7:167:MET:HG2	2.00	0.61
1:A9:88:PHE:CE1	1:A9:205:GLY:CA	2.81	0.61
1:AE:137:GLY:HA2	1:AF:38:PHE:HD1	104.43	0.61
1:BE:143:VAL:H	3:EB:14:PHE:HB3	1.62	0.61
3:EE:27:PRO:HB3	4:FX:30:TYR:HA	183.88	0.61
1:AA:74:THR:HG21	3:DA:43:PHE:CZ	2.35	0.61
1:AE:74:THR:HG21	3:DG:43:PHE:CZ	114.20	0.61
1:AI:74:THR:HG21	3:DK:43:PHE:CZ	251.05	0.61
1:AM:74:THR:HG21	3:DM:43:PHE:CZ	2.35	0.61
1:AH:74:THR:HG21	3:DH:43:PHE:CZ	2.35	0.61
1:AN:74:THR:HG21	3:DN:43:PHE:CZ	2.35	0.61
3:D6:42:ASN:HD22	3:D6:44:ILE:H	1.46	0.61
3:D8:27:PRO:HB3	4:F8:30:TYR:HA	1.82	0.61
1:A1:137:GLY:HA2	1:A2:38:PHE:HD1	1.65	0.61
1:AB:187:LEU:CD2	1:AB:188:PRO:HD2	2.25	0.61
1:AT:130:ILE:HD11	1:AT:135:VAL:CG1	2.30	0.61
3:DU:53:PHE:CE2	3:DU:205:LEU:HB3	2.31	0.61
3:EA:53:PHE:CE2	3:EA:205:LEU:HB3	2.31	0.61
2:CO:103:LEU:CD2	3:DK:163:PRO:HD3	2.30	0.61
2:CH:103:LEU:CD2	3:DI:163:PRO:HD3	2.31	0.61
2:CM:18:VAL:HG13	2:CM:23:ILE:HG13	1.82	0.61
2:C8:18:VAL:HG13	2:C8:23:ILE:HG13	1.82	0.61
2:CD:18:VAL:HG13	2:CD:23:ILE:HG13	1.82	0.61
1:A2:74:THR:HG21	3:D3:43:PHE:CZ	2.35	0.61
1:AV:74:THR:HG21	3:DW:43:PHE:CZ	2.35	0.61
1:A7:74:THR:HG21	3:D8:43:PHE:CZ	2.35	0.61
2:CZ:18:VAL:HG13	2:CZ:23:ILE:HG13	1.82	0.61
2:CW:207:GLN:HE22	3:DS:192:THR:HA	259.81	0.61
2:CU:207:GLN:HE22	3:D5:192:THR:HA	267.27	0.61
2:C9:207:GLN:HE22	3:DL:192:THR:HA	95.98	0.61
2:C3:207:GLN:HE22	3:DU:192:THR:HA	1.65	0.61
3:D1:66:ASN:HB3	3:D1:191:LEU:O	1.99	0.61
1:AC:19:LEU:CD1	3:DE:160:TYR:HB3	89.16	0.61
1:AD:19:LEU:HB2	2:CC:48:SER:HB2	1.82	0.61
1:AI:19:LEU:CD1	3:DI:160:TYR:HB3	2.30	0.61
1:AE:19:LEU:HB2	2:CD:48:SER:HB2	1.82	0.61
1:BF:19:LEU:HB2	2:CT:48:SER:HB2	192.59	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	2.01	0.61
3:DR:160:TYR:OH	3:DR:167:MET:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:19:LEU:CD1	3:D8:160:TYR:HB3	2.29	0.61
1:A1:19:LEU:CD1	3:D2:160:TYR:HB3	2.29	0.61
1:AA:38:PHE:HD1	1:AN:137:GLY:HA2	244.29	0.61
1:AC:88:PHE:CE1	1:AC:205:GLY:CA	2.81	0.61
1:AG:88:PHE:CE1	1:AG:205:GLY:CA	2.81	0.61
1:AI:102:VAL:HG22	1:AI:199:SER:CB	2.31	0.61
1:AO:38:PHE:HD1	1:AR:137:GLY:HA2	132.54	0.61
1:AT:207:CYS:H	1:AX:121:LEU:CD2	2.12	0.61
1:BA:137:GLY:HA2	1:BB:38:PHE:HD1	1.64	0.61
3:DR:27:PRO:HB3	4:FR:30:TYR:HA	1.82	0.61
1:AA:74:THR:HG21	3:DC:43:PHE:CZ	74.14	0.61
1:AO:74:THR:HG21	3:DO:43:PHE:CZ	2.35	0.61
1:AD:74:THR:HG21	3:DF:43:PHE:CZ	113.32	0.61
1:A3:121:LEU:CD2	1:A4:207:CYS:H	2.12	0.61
1:BF:187:LEU:CD2	1:BF:188:PRO:HD2	2.25	0.61
2:CV:208:THR:O	2:CV:209:VAL:HG23	1.99	0.61
2:CA:15:GLU:HG3	2:CA:29:SER:CB	2.30	0.61
2:CG:113:GLN:HA	2:CG:169:SER:O	2.01	0.61
2:CA:113:GLN:HA	2:CA:169:SER:O	2.01	0.61
2:CU:113:GLN:HA	2:CU:169:SER:O	2.01	0.61
2:CT:113:GLN:HA	2:CT:169:SER:O	2.00	0.61
2:CY:69:TRP:CZ3	2:CY:124:LEU:HG	2.35	0.61
2:CW:113:GLN:HA	2:CW:169:SER:O	2.01	0.61
2:CD:113:GLN:HA	2:CD:169:SER:O	2.01	0.61
2:CL:113:GLN:HA	2:CL:169:SER:O	2.01	0.61
2:CB:113:GLN:HA	2:CB:169:SER:O	2.01	0.61
1:A7:104:VAL:HG22	1:A7:197:LEU:HD23	1.80	0.61
2:C9:103:LEU:CD2	3:DA:163:PRO:HD3	209.65	0.61
1:A1:104:VAL:HG22	1:A1:197:LEU:HD23	1.80	0.61
2:CQ:103:LEU:CD2	3:DR:163:PRO:HD3	2.30	0.61
2:CL:103:LEU:CD2	3:DM:163:PRO:HD3	2.31	0.61
2:C0:103:LEU:CD2	3:D1:163:PRO:HD3	2.30	0.61
1:AB:230:ARG:NH2	3:DB:83:ALA:HB1	2.14	0.61
1:BF:230:ARG:NH2	3:EB:83:ALA:HB1	2.14	0.61
2:CS:18:VAL:HG13	2:CS:23:ILE:HG13	1.82	0.61
2:C5:18:VAL:HG13	2:C5:23:ILE:HG13	1.82	0.61
2:CR:63:THR:H	3:EE:139:MET:HG3	1.63	0.61
2:CK:207:GLN:HE22	3:DA:192:THR:HA	283.12	0.61
2:CG:213:MET:CE	2:CG:215:VAL:HG22	2.30	0.61
2:C6:213:MET:CE	2:C6:215:VAL:HG22	2.30	0.61
2:CY:213:MET:CE	2:CY:215:VAL:HG22	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
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:DT:160:TYR:OH	3:DT:167:MET:HG2	2.01	0.61
3:EA:160:TYR:OH	3:EA:167:MET:HG2	2.01	0.61
1:AV:19:LEU:CD1	3:DW:160:TYR:HB3	2.29	0.61
1:AR:19:LEU:CD1	3:DR:160:TYR:HB3	2.30	0.61
3:D6:160:TYR:OH	3:D6:167:MET:HG2	2.01	0.61
1:AM:137:GLY:HA2	1:AN:38:PHE:HD1	1.65	0.61
1:BE:121:LEU:CD2	1:BF:207:CYS:H	2.12	0.61
3:DO:27:PRO:HB3	4:FO:30:TYR:HA	1.82	0.61
3:DA:42:ASN:HD22	3:DA:44:ILE:H	1.46	0.61
1:AV:88:PHE:CE1	1:AV:205:GLY:CA	2.81	0.61
1:A5:87:GLN:O	1:A5:88:PHE:HB3	1.98	0.61
1:A0:137:GLY:HA2	1:A1:38:PHE:HD1	1.65	0.61
1:BH:164:TRP:HZ2	1:BH:187:LEU:HD21	1.58	0.61
1:A2:164:TRP:HZ2	1:A2:187:LEU:HD21	1.58	0.61
1:AV:130:ILE:HD11	1:AV:135:VAL:CG1	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	2.01	0.61
2:CE:103:LEU:CD2	3:DF:163:PRO:HD3	36.87	0.61
2:CM:103:LEU:CD2	3:DN:163:PRO:HD3	2.30	0.61
2:CP:103:LEU:CD2	3:DQ:163:PRO:HD3	2.30	0.61
2:CB:103:LEU:CD2	3:DC:163:PRO:HD3	2.31	0.61
2:CA:103:LEU:CD2	3:DB:163:PRO:HD3	2.31	0.61
1:A2:230:ARG:NH2	3:D3:83:ALA:HB1	2.14	0.61
1:AN:230:ARG:NH2	3:DN:83:ALA:HB1	2.14	0.61
1:AY:230:ARG:NH2	3:DZ:83:ALA:HB1	2.14	0.61
2:CO:18:VAL:HG13	2:CO:23:ILE:HG13	1.82	0.61
2:CR:23:ILE:N	2:CR:23:ILE:HD12	2.15	0.61
1:A1:74:THR:HG21	3:D2:43:PHE:CZ	2.35	0.61
2:CV:213:MET:CE	2:CV:215:VAL:HG22	2.30	0.61
2:C5:213:MET:CE	2:C5:215:VAL:HG22	2.30	0.61
2:CP:213:MET:CE	2:CP:215:VAL:HG22	2.30	0.61
1:AC:19:LEU:HB2	2:CB:48:SER:HB2	1.82	0.61
3:DE:160:TYR:OH	3:DE:167:MET:HG2	2.01	0.61
1:AH:19:LEU:CD1	3:DH:160:TYR:HB3	2.29	0.61
3:DM:160:TYR:OH	3:DM:167:MET:HG2	2.01	0.61
3:DS:160:TYR:OH	3:DS:167:MET:HG2	2.01	0.61
1:BB:19:LEU:CD1	3:DQ:160:TYR:HB3	94.59	0.61
1:BG:19:LEU:CD1	3:EC:160:TYR:HB3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:19:LEU:HB2	2:C3:48:SER:HB2	1.82	0.61
1:AL:137:GLY:HA2	1:AM:38:PHE:HD1	1.65	0.61
3:DG:27:PRO:HB3	4:FG:30:TYR:HA	1.82	0.61
3:DC:27:PRO:HB3	4:FC:30:TYR:HA	1.82	0.61
1:AC:74:THR:HG21	3:DE:43:PHE:CZ	74.14	0.61
3:D1:27:PRO:HB3	4:F1:30:TYR:HA	1.82	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:AN:130:ILE:HD11	1:AN:135:VAL:CG1	2.30	0.61
1:AO:130:ILE:HD11	1:AO:135:VAL:CG1	2.30	0.61
2:C2:15:GLU:HG3	2:C2:29:SER:CB	2.30	0.61
2:CF:113:GLN:HA	2:CF:169:SER:O	2.01	0.61
2:CP:113:GLN:HA	2:CP:169:SER:O	2.00	0.61
2:CH:113:GLN:HA	2:CH:169:SER:O	2.01	0.61
2:CQ:113:GLN:HA	2:CQ:169:SER:O	2.01	0.61
2:CN:113:GLN:HA	2:CN:169:SER:O	2.01	0.61
2:CQ:54:LEU:HD12	2:CQ:220:ALA:CB	2.31	0.61
2:CS:103:LEU:CD2	3:DT:163:PRO:HD3	2.30	0.61
2:CE:103:LEU:CD2	3:DA:163:PRO:HD3	2.30	0.61
2:CV:103:LEU:CD2	3:ED:163:PRO:HD3	241.16	0.61
2:CK:103:LEU:CD2	3:DL:163:PRO:HD3	2.30	0.61
2:C7:103:LEU:CD2	3:D8:163:PRO:HD3	2.31	0.61
2:CT:18:VAL:HG13	2:CT:23:ILE:HG13	1.82	0.61
1:AR:74:THR:HG21	3:DR:43:PHE:CZ	2.35	0.61
2:CP:23:ILE:HD12	2:CP:23:ILE:N	2.15	0.61
2:CF:18:VAL:HG13	2:CF:23:ILE:HG13	1.82	0.61
2:CZ:23:ILE:N	2:CZ:23:ILE:HD12	2.15	0.61
2:C2:23:ILE:HD12	2:C2:23:ILE:N	2.15	0.61
2:CC:207:GLN:HE22	3:DN:192:THR:HA	166.21	0.61
2:CH:207:GLN:HE22	3:DN:192:THR:HA	267.46	0.61
2:CJ:213:MET:CE	2:CJ:215:VAL:HG22	2.30	0.61
2:CT:213:MET:CE	2:CT:215:VAL:HG22	2.30	0.61
2:C2:207:GLN:HE22	3:DH:192:THR:HA	267.27	0.61
2:CL:207:GLN:HE22	3:DK:192:THR:HA	112.48	0.61
2:C0:207:GLN:HE22	3:DQ:192:THR:HA	1.65	0.61
2:CE:213:MET:CE	2:CE:215:VAL:HG22	2.30	0.61
3:D9:160:TYR:OH	3:D9:167:MET:HG2	2.01	0.61
3:EC:160:TYR:OH	3:EC:167:MET:HG2	2.01	0.61
1:BI:19:LEU:CD1	3:EE:160:TYR:HB3	2.29	0.61
1:AX:19:LEU:HB2	2:CX:48:SER:HB2	1.82	0.61
1:AT:19:LEU:HB2	2:CY:48:SER:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:102:VAL:HG22	1:AG:199:SER:CB	2.31	0.61
1:AM:137:GLY:HA2	1:BA:38:PHE:HD1	204.73	0.61
1:BC:88:PHE:CE1	1:BC:205:GLY:CA	2.81	0.61
1:BH:137:GLY:HA2	1:BI:38:PHE:HD1	1.65	0.61
3:DT:27:PRO:HB3	4:FT:30:TYR:HA	1.82	0.61
3:EA:27:PRO:HB3	4:FT:30:TYR:HA	160.11	0.61
1:AE:74:THR:HG21	3:DE:43:PHE:CZ	2.35	0.61
1:AJ:74:THR:HG21	3:DL:43:PHE:CZ	249.35	0.61
3:DS:42:ASN:HD22	3:DS:44:ILE:HG22	1.65	0.61
3:DM:42:ASN:HD22	3:DM:44:ILE:H	1.46	0.61
3:D4:42:ASN:HD22	3:D4:44:ILE:H	1.46	0.61
3:D2:42:ASN:HD22	3:D2:44:ILE:H	1.46	0.61
3:D1:42:ASN:HD22	3:D1:44:ILE:HG22	1.65	0.61
2:CB:15:GLU:HG3	2:CB:29:SER:CB	2.30	0.61
2:CE:15:GLU:HG3	2:CE:29:SER:CB	2.30	0.61
2:C7:69:TRP:CZ3	2:C7:124:LEU:HG	2.34	0.61
2:CI:113:GLN:HA	2:CI:169:SER:O	2.01	0.61
2:CK:18:VAL:HG13	2:CK:23:ILE:HG13	1.82	0.61
1:BH:74:THR:HG21	3:ED:43:PHE:CZ	2.35	0.61
2:C5:103:LEU:CD2	3:D6:163:PRO:HD3	2.31	0.61
4:FA:25:PHE:HD2	4:FA:26:TYR:CE1	2.19	0.61
1:A8:74:THR:HG21	3:D9:43:PHE:CZ	2.35	0.61
2:C6:23:ILE:N	2:C6:23:ILE:HD12	2.15	0.61
2:CO:213:MET:CE	2:CO:215:VAL:HG22	2.30	0.61
2:CZ:115:ASN:C	3:DQ:119:LYS:HZ3	90.46	0.61
2:CY:207:GLN:HE22	3:DZ:192:THR:HA	1.65	0.61
2:C4:207:GLN:HE22	3:EC:192:THR:HA	1.65	0.61
1:AF:19:LEU:HB2	2:CG:48:SER:HB2	89.38	0.61
1:BA:19:LEU:HB2	2:CO:48:SER:HB2	149.01	0.61
1:AM:19:LEU:HB2	2:CS:48:SER:HB2	137.63	0.61
3:DD:160:TYR:OH	3:DD:167:MET:HG2	2.00	0.61
3:DP:160:TYR:OH	3:DP:167:MET:HG2	2.01	0.61
3:EB:160:TYR:OH	3:EB:167:MET:HG2	2.01	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:A9:102:VAL:HG22	1:A9:199:SER:CB	2.31	0.61
1:AH:38:PHE:HD1	1:AL:137:GLY:HA2	265.92	0.61
3:DM:27:PRO:HB3	4:FM:30:TYR:HA	1.81	0.61
3:DW:27:PRO:HB3	4:FW:30:TYR:HA	1.82	0.61
1:AY:137:GLY:HA2	1:AZ:38:PHE:HD1	1.65	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:CO:15:GLU:HG3	2:CO:29:SER:CB	2.30	0.61
2:CM:15:GLU:HG3	2:CM:29:SER:CB	2.30	0.61
2:CB:54:LEU:HD12	2:CB:220:ALA:CB	2.31	0.61
2:CO:54:LEU:HD12	2:CO:220:ALA:CB	2.31	0.61
2:C8:54:LEU:HD12	2:C8:220:ALA:CB	2.31	0.61
2:CM:54:LEU:HD12	2:CM:220:ALA:CB	2.31	0.61
2:CE:54:LEU:HD12	2:CE:220:ALA:CB	2.31	0.61
2:CI:103:LEU:CD2	3:DJ:163:PRO:HD3	2.31	0.61
2:CC:54:LEU:HD12	2:CC:220:ALA:CB	2.31	0.61
2:CK:54:LEU:HD12	2:CK:220:ALA:CB	2.31	0.61
2:CX:103:LEU:CD2	3:EA:163:PRO:HD3	156.46	0.61
2:C0:54:LEU:HD12	2:C0:220:ALA:CB	2.31	0.61
2:C0:18:VAL:HG13	2:C0:23:ILE:HG13	1.82	0.61
2:C3:18:VAL:HG13	2:C3:23:ILE:HG13	1.82	0.61
4:FV:25:PHE:HD2	4:FV:26:TYR:CE1	2.19	0.61
1:A6:74:THR:HG21	3:D7:43:PHE:CZ	2.35	0.61
4:FR:25:PHE:HD2	4:FR:26:TYR:CE1	2.19	0.61
4:FD:25:PHE:HD2	4:FD:26:TYR:CE1	2.19	0.61
4:FH:25:PHE:HD2	4:FH:26:TYR:CE1	2.19	0.61
1:AX:74:THR:HG21	3:DY:43:PHE:CZ	2.35	0.61
2:CH:213:MET:CE	2:CH:215:VAL:HG22	2.30	0.61
2:C5:207:GLN:HE22	3:DG:192:THR:HA	1.65	0.61
2:CY:115:ASN:C	3:DZ:119:LYS:HZ3	2.04	0.61
2:CE:207:GLN:HE22	3:DC:192:THR:HA	159.45	0.61
2:CF:115:ASN:C	3:DV:119:LYS:HZ3	179.44	0.61
1:AN:19:LEU:CD1	3:DB:160:TYR:HB3	180.52	0.61
1:A4:19:LEU:HB2	2:C4:48:SER:HB2	1.82	0.61
3:D5:160:TYR:OH	3:D5:167:MET:HG2	2.01	0.61
1:AI:121:LEU:CD2	1:AJ:207:CYS:H	2.12	0.61
1:AM:102:VAL:HG22	1:AM:199:SER:CB	2.31	0.61
1:AV:137:GLY:HA2	1:AW:38:PHE:HD1	1.65	0.61
3:D9:27:PRO:HB3	4:F9:30:TYR:HA	1.82	0.61
1:BI:74:THR:HG21	3:EE:43:PHE:CZ	2.35	0.61
3:D2:42:ASN:HD22	3:D2:44:ILE:HG22	1.65	0.61
1:A9:130:ILE:HD11	1:A9:135:VAL:CG1	2.30	0.61
2:CN:15:GLU:HG3	2:CN:29:SER:CB	2.30	0.61
2:CR:15:GLU:HG3	2:CR:29:SER:CB	2.30	0.61
2:C6:113:GLN:HA	2:C6:169:SER:O	2.01	0.61
2:CC:113:GLN:HA	2:CC:169:SER:O	2.01	0.61
2:CX:54:LEU:HD12	2:CX:220:ALA:CB	2.31	0.61
2:C3:54:LEU:HD12	2:C3:220:ALA:CB	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:54:LEU:HD12	2:CL:220:ALA:CB	2.31	0.61
2:CI:103:LEU:CD2	3:DE:163:PRO:HD3	133.36	0.61
2:CJ:103:LEU:CD2	3:DK:163:PRO:HD3	256.15	0.61
2:CT:103:LEU:CD2	3:EB:163:PRO:HD3	204.07	0.61
2:CG:103:LEU:CD2	3:DH:163:PRO:HD3	2.31	0.61
2:C9:18:VAL:HG13	2:C9:23:ILE:HG13	1.82	0.61
4:F3:25:PHE:HD2	4:F3:26:TYR:CE1	2.19	0.61
1:BG:74:THR:HG21	3:EC:43:PHE:CZ	2.35	0.61
4:F4:25:PHE:HD2	4:F4:26:TYR:CE1	2.19	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
4:FY:25:PHE:HD2	4:FY:26:TYR:CE1	2.19	0.61
2:CI:213:MET:CE	2:CI:215:VAL:HG22	2.30	0.61
2:CJ:207:GLN:HE22	3:DM:192:THR:HA	238.59	0.61
2:CK:207:GLN:HE22	3:DB:192:THR:HA	267.28	0.61
2:CM:207:GLN:HE22	3:DD:192:THR:HA	166.21	0.61
2:CX:115:ASN:C	3:DR:119:LYS:HZ3	155.99	0.61
3:D3:66:ASN:HB3	3:D3:191:LEU:O	1.99	0.61
2:CS:207:GLN:HE22	3:DC:192:THR:HA	267.46	0.61
2:CF:110:VAL:HG12	2:CF:215:VAL:HA	1.83	0.61
1:AH:19:LEU:HB2	2:CG:48:SER:HB2	1.82	0.61
1:AC:19:LEU:HB2	2:CI:48:SER:HB2	137.63	0.61
3:DL:160:TYR:OH	3:DL:167:MET:HG2	2.01	0.61
1:AM:19:LEU:CD1	3:DM:160:TYR:HB3	2.29	0.61
1:BB:19:LEU:HB2	2:CP:48:SER:HB2	92.11	0.61
1:BI:19:LEU:HB2	2:CW:48:SER:HB2	182.74	0.61
1:AY:19:LEU:CD1	3:DZ:160:TYR:HB3	2.29	0.61
1:AV:19:LEU:HB2	2:CV:48:SER:HB2	1.83	0.61
1:A1:19:LEU:HB2	2:C1:48: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:AH:209:LEU:O	1:AH:210:ARG:HG2	2.01	0.61
1:AN:102:VAL:HG22	1:AN:199:SER:CB	2.30	0.61
1:A9:137:GLY:HA2	1:AN:38:PHE:HD1	144.37	0.61
1:BA:88:PHE:CE1	1:BA:205:GLY:CA	2.81	0.61
3:DD:27:PRO:HB3	4:FD:30:TYR:HA	1.82	0.61
1:AM:74:THR:HG21	3:DO:43:PHE:CZ	74.14	0.61
3:DR:42:ASN:HD22	3:DR:44:ILE:H	1.46	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
3:D6:27:PRO:HB3	4:F6:30:TYR:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D3:27:PRO:HB3	4:F3:30:TYR:HA	1.82	0.61
1:AZ:209:LEU:O	1:AZ:210:ARG:HG2	2.01	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:AR:130:ILE:HD11	1:AR:135:VAL:CG1	2.30	0.61
1:BH:130:ILE:HD11	1:BH:135:VAL:CG1	2.30	0.61
3:DY:53:PHE:CE2	3:DY:205:LEU:HB3	2.31	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:CJ:113:GLN:HA	2:CJ:169:SER:O	2.01	0.61
2:CM:113:GLN:HA	2:CM:169:SER:O	2.01	0.61
2:CA:54:LEU:HD12	2:CA:220:ALA:CB	2.31	0.61
2:CD:54:LEU:HD12	2:CD:220:ALA:CB	2.31	0.61
2:CR:54:LEU:HD12	2:CR:220:ALA:CB	2.31	0.61
2:CF:54:LEU:HD12	2:CF:220:ALA:CB	2.31	0.61
2:CU:103:LEU:CD2	3:DV:163:PRO:HD3	2.31	0.61
2:CR:103:LEU:CD2	3:DS:163:PRO:HD3	2.31	0.61
4:FO:25:PHE:HD2	4:FO:26:TYR:CE1	2.19	0.61
4:FM:25:PHE:HD2	4:FM:26:TYR:CE1	2.19	0.61
1:A5:74:THR:HG21	3:D6:43:PHE:CZ	2.35	0.61
1:A3:74:THR:HG21	3:D4:43:PHE:CZ	2.35	0.61
3:DN:121:LEU:HD23	3:DN:121:LEU:C	2.22	0.61
2:CJ:110:VAL:HG12	2:CJ:215:VAL:HA	1.83	0.61
2:CL:110:VAL:HG12	2:CL:215:VAL:HA	1.83	0.61
2:CU:115:ASN:C	3:D5:119:LYS:HZ3	258.09	0.61
2:CQ:213:MET:CE	2:CQ:215:VAL:HG22	2.30	0.61
2:CB:207:GLN:HE22	3:DF:192:THR:HA	155.33	0.61
2:CB:213:MET:CE	2:CB:215:VAL:HG22	2.30	0.61
2:CS:213:MET:CE	2:CS:215:VAL:HG22	2.30	0.61
1:A9:19:LEU:HB2	2:C9:48:SER:HB2	1.82	0.61
1:AP:19:LEU:HB2	2:CT:48:SER:HB2	1.83	0.61
1:AK:19:LEU:CD1	3:DK:160:TYR:HB3	2.29	0.61
1:AL:19:LEU:CD1	3:DN:160:TYR:HB3	89.16	0.61
3:DN:160:TYR:OH	3:DN:167:MET:HG2	2.01	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
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:D8:160:TYR:OH	3:D8:167:MET:HG2	2.00	0.61
1:AC:209:LEU:O	1:AC:210:ARG:HG2	2.01	0.61
1:AE:209:LEU:O	1:AE:210:ARG:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:38:PHE:HD1	1:AG:137:GLY:HA2	183.69	0.61
1:AI:209:LEU:O	1:AI:210:ARG:HG2	2.01	0.61
1:BB:102:VAL:HG22	1:BB:199:SER:CB	2.31	0.61
1:AF:74:THR:HG21	3:DH:43:PHE:CZ	74.14	0.61
3:DN:42:ASN:HD22	3:DN:44:ILE:HG22	1.65	0.61
3:DU:42:ASN:HD22	3:DU:44:ILE:HG22	1.65	0.61
3:D3:42:ASN:HD22	3:D3:44:ILE:H	1.46	0.61
1:BH:88:PHE:CE1	1:BH:205:GLY:CA	2.81	0.61
1:A5:121:LEU:CD2	1:A6:207:CYS:H	2.12	0.61
1:AV:187:LEU:CD2	1:AV:188:PRO:HD2	2.25	0.61
1:AL:130:ILE:HD11	1:AL:135:VAL:CG1	2.30	0.61
1:AE:130:ILE:HD11	1:AE:135:VAL:CG1	2.30	0.61
1:BI:130:ILE:HD11	1:BI:135:VAL:CG1	2.30	0.61
1:BC:130:ILE:HD11	1:BC:135:VAL:CG1	2.30	0.61
3:DC:53:PHE:CE2	3:DC:205:LEU:HB3	2.31	0.61
2:CZ:113:GLN:HA	2:CZ:169:SER:O	2.01	0.61
2:C2:113:GLN:HA	2:C2:169:SER:O	2.01	0.61
2:CE:113:GLN:HA	2:CE:169:SER:O	2.00	0.61
2:CO:113:GLN:HA	2:CO:169:SER:O	2.01	0.61
2:C9:54:LEU:HD12	2:C9:220:ALA:CB	2.31	0.61
2:CJ:54:LEU:HD12	2:CJ:220:ALA:CB	2.31	0.61
2:CT:54:LEU:HD12	2:CT:220:ALA:CB	2.31	0.61
2:C5:54:LEU:HD12	2:C5:220:ALA:CB	2.31	0.61
2:CF:103:LEU:CD2	3:DG:163:PRO:HD3	2.30	0.61
2:CW:103:LEU:CD2	3:DX:163:PRO:HD3	2.30	0.61
2:C4:103:LEU:CD2	3:D5:163:PRO:HD3	2.30	0.61
3:DB:121:LEU:HD23	3:DB:121:LEU:C	2.22	0.61
1:BE:74:THR:HG21	3:EA:43:PHE:CZ	2.35	0.61
3:DS:121:LEU:HD23	3:DS:121:LEU:C	2.22	0.61
3:DM:121:LEU:HD23	3:DM:121:LEU:C	2.22	0.61
4:F1:25:PHE:HD2	4:F1:26:TYR:CE1	2.19	0.61
2:CJ:115:ASN:CA	3:DA:119:LYS:HD2	2.31	0.61
2:CM:110:VAL:HG12	2:CM:215:VAL:HA	1.83	0.61
2:CT:110:VAL:HG12	2:CT:215:VAL:HA	1.83	0.61
2:CU:115:ASN:CA	3:DG:119:LYS:HD2	246.10	0.61
2:C1:213:MET:CE	2:C1:215:VAL:HG22	2.30	0.61
2:C1:207:GLN:HE22	3:DO:192:THR:HA	1.65	0.61
2:CZ:110:VAL:HG12	2:CZ:215:VAL:HA	1.83	0.61
1:AI:19:LEU:HB2	2:CH:48:SER:HB2	1.82	0.61
1:AG:137:GLY:HA2	1:AH:38:PHE:HD1	1.65	0.61
1:AN:209:LEU:O	1:AN:210:ARG:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:88:PHE:CE1	1:BI:205:GLY:CA	2.81	0.61
3:DQ:27:PRO:HB3	4:FQ:30:TYR:HA	1.82	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:BH:209:LEU:O	1:BH:210:ARG:HG2	2.01	0.61
3:D1:14:PHE:O	3:D1:15:MET:HB2	2.01	0.61
2:CU:15:GLU:HG3	2:CU:29:SER:CB	2.30	0.61
2:CY:113:GLN:HA	2:CY:169:SER:O	2.00	0.61
2:CH:54:LEU:HD12	2:CH:220:ALA:CB	2.31	0.61
2:CG:54:LEU:HD12	2:CG:220:ALA:CB	2.31	0.61
2:CD:103:LEU:CD2	3:DE:163:PRO:HD3	2.31	0.61
2:CN:103:LEU:CD2	3:DJ:163:PRO:HD3	237.64	0.61
2:CT:103:LEU:CD2	3:DP:163:PRO:HD3	2.30	0.61
2:C7:54:LEU:HD12	2:C7:220:ALA:CB	2.31	0.61
2:C6:54:LEU:HD12	2:C6:220:ALA:CB	2.31	0.61
2:CZ:103:LEU:CD2	3:D0:163:PRO:HD3	2.31	0.61
3:DD:121:LEU:HD23	3:DD:121:LEU:C	2.22	0.61
4:FF:25:PHE:HD2	4:FF:26:TYR:CE1	2.19	0.61
3:DF:121:LEU:C	3:DF:121:LEU:HD23	2.22	0.61
1:AE:5:GLY:O	1:AE:6:GLU:HB3	2.01	0.61
4:FQ:25:PHE:HD2	4:FQ:26:TYR:CE1	2.19	0.61
3:D7:121:LEU:HD23	3:D7:121:LEU:C	2.22	0.61
3:DA:121:LEU:C	3:DA:121:LEU:HD23	2.22	0.61
4:FC:25:PHE:HD2	4:FC:26:TYR:CE1	2.19	0.61
2:CC:110:VAL:HG12	2:CC:215:VAL:HA	1.83	0.60
2:CH:115:ASN:CA	3:DS:119:LYS:HD2	158.62	0.60
2:CM:213:MET:CE	2:CM:215:VAL:HG22	2.30	0.60
2:CV:207:GLN:HE22	3:DB:192:THR:HA	1.65	0.60
2:C5:110:VAL:HG12	2:C5:215:VAL:HA	1.83	0.60
2:CD:110:VAL:HG12	2:CD:215:VAL:HA	1.83	0.60
2:CD:213:MET:CE	2:CD:215:VAL:HG22	2.30	0.60
2:CD:207:GLN:HE22	3:D7:192:THR:HA	1.65	0.60
2:CB:115:ASN:CA	3:DF:119:LYS:HD2	143.11	0.60
2:CE:115:ASN:CA	3:DC:119:LYS:HD2	151.29	0.60
2:CS:110:VAL:HG12	2:CS:215:VAL:HA	1.83	0.60
2:CP:115:ASN:CA	3:D1:119:LYS:HD2	2.31	0.60
1:AA:19:LEU:HB2	2:CB:48:SER:HB2	89.38	0.60
1:AG:19:LEU:HB2	2:CF:48:SER:HB2	1.83	0.60
1:AH:19:LEU:HB2	2:CN:48:SER:HB2	228.12	0.60
1:AE:19:LEU:HB2	2:CF:48:SER:HB2	92.10	0.60
3:DF:160:TYR:OH	3:DF:167:MET:HG2	2.01	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	2.01	0.60
1:A9:209:LEU:O	1:A9:210:ARG:HG2	2.01	0.60
1:AG:209:LEU:O	1:AG:210:ARG:HG2	2.01	0.60
1:AK:102:VAL:HG22	1:AK:199:SER:CB	2.31	0.60
1:AJ:137:GLY:HA2	1:AK:38:PHE:HD1	263.88	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	248.82	0.60
1:AX:102:VAL:HG22	1:AX:199:SER:CB	2.31	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
3:DL:14:PHE:O	3:DL:15:MET:HB2	2.02	0.60
3:DX:27:PRO:HB3	4:FX:30:TYR:HA	1.82	0.60
3:DT:42:ASN:HD22	3:DT:44:ILE:H	1.46	0.60
1:AY:209:LEU:O	1:AY:210:ARG:HG2	2.01	0.60
3:D7:14:PHE:O	3:D7:15:MET:HB2	2.01	0.60
1:AM:30:VAL:HG13	1:AM:218:MET:HE2	1.90	0.60
2:CK:78:ALA:HA	2:CK:196:ILE:O	2.01	0.60
2:C7:113:GLN:HA	2:C7:169:SER:O	2.01	0.60
2:CL:78:ALA:HA	2:CL:196:ILE:O	2.02	0.60
2:CN:54:LEU:HD12	2:CN:220:ALA:CB	2.31	0.60
2:CV:103:LEU:CD2	3:DW:163:PRO:HD3	2.30	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:C2:103:LEU:CD2	3:D3:163:PRO:HD3	2.30	0.60
3:DK:121:LEU:HD23	3:DK:121:LEU:C	2.22	0.60
4:FU:25:PHE:HD2	4:FU:26:TYR:CE1	2.19	0.60
1:BC:5:GLY:O	1:BC:6:GLU:HB3	2.01	0.60
4:F2:25:PHE:HD2	4:F2:26:TYR:CE1	2.19	0.60
3:DZ:121:LEU:HD23	3:DZ:121:LEU:C	2.22	0.60
1:BA:5:GLY:O	1:BA:6:GLU:HB3	2.01	0.60
3:D6:121:LEU:HD23	3:D6:121:LEU:C	2.22	0.60
3:DO:121:LEU:HD23	3:DO:121:LEU:C	2.22	0.60
1:AS:224:ILE:HG13	3:DT:89:TYR:CE1	2.37	0.60
3:DY:121:LEU:HD23	3:DY:121:LEU:C	2.22	0.60
4:F7:25:PHE:HD2	4:F7:26:TYR:CE1	2.19	0.60
1:AC:224:ILE:HG13	3:DC:89:TYR:CE1	2.37	0.60
1:AK:224:ILE:HG13	3:DM:89:TYR:CE1	84.99	0.60
3:DW:121:LEU:C	3:DW:121:LEU:HD23	2.22	0.60
2:CH:110:VAL:HG12	2:CH:215:VAL:HA	1.83	0.60
2:C7:213:MET:CE	2:C7:215:VAL:HG22	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CK:115:ASN:CA	3:DB:119:LYS:HD2	256.10	0.60
2:CO:115:ASN:CA	3:DR:119:LYS:HD2	148.90	0.60
2:CQ:207:GLN:HE22	3:DP:192:THR:HA	112.48	0.60
2:CG:207:GLN:HE22	3:EB:192:THR:HA	1.65	0.60
2:CG:115:ASN:CA	3:EB:119:LYS:HD2	2.31	0.60
2:CA:115:ASN:CA	3:DL:119:LYS:HD2	256.10	0.60
2:CB:110:VAL:HG12	2:CB:215:VAL:HA	1.83	0.60
2:CS:207:GLN:HE22	3:EA:192:THR:HA	165.18	0.60
3:DV:160:TYR:OH	3:DV:167:MET:HG2	2.00	0.60
1:AR:19:LEU:HB2	2:CQ:48:SER:HB2	1.82	0.60
3:D0:160:TYR:OH	3:D0:167:MET:HG2	2.01	0.60
1:AA:209:LEU:O	1:AA:210:ARG:HG2	2.01	0.60
1:AC:209:LEU:CD1	1:AC:210:ARG:H	2.15	0.60
1:AK:209:LEU:O	1:AK:210:ARG:HG2	2.01	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:BI:209:LEU:O	1:BI:210:ARG:HG2	2.01	0.60
1:AJ:74:THR:HG21	3:DJ:43:PHE:CZ	2.35	0.60
1:A3:209:LEU:CD1	1:A3:210:ARG:H	2.15	0.60
3:D3:42:ASN:HD22	3:D3:44:ILE:HG22	1.65	0.60
1:BG:121:LEU:CD2	1:BH:207:CYS:H	2.12	0.60
1:A1:102:VAL:HG22	1:A1:199:SER:CB	2.31	0.60
1:A6:209:LEU:CD1	1:A6:210:ARG:H	2.15	0.60
1:A3:130:ILE:HD11	1:A3:135:VAL:CG1	2.30	0.60
2:CQ:15:GLU:HG3	2:CQ:29:SER:CB	2.30	0.60
3:D2:53:PHE:CE2	3:D2:205:LEU:HB3	2.31	0.60
1:A6:30:VAL:HG13	1:A6:218:MET:HE2	1.84	0.60
2:CV:113:GLN:HA	2:CV:169:SER:O	2.01	0.60
2:CS:54:LEU:HD12	2:CS:220:ALA:CB	2.31	0.60
2:CW:54:LEU:HD12	2:CW:220:ALA:CB	2.31	0.60
2:CI:54:LEU:HD12	2:CI:220:ALA:CB	2.31	0.60
2:C4:54:LEU:HD12	2:C4:220:ALA:CB	2.31	0.60
2:CY:18:VAL:HG13	2:CY:23:ILE:HG13	1.82	0.60
1:BB:74:THR:HG21	3:DQ:43:PHE:CZ	116.82	0.60
4:FE:25:PHE:HD2	4:FE:26:TYR:CE1	2.19	0.60
1:AK:224:ILE:HG13	3:DK:89:TYR:CE1	2.36	0.60
3:D9:121:LEU:C	3:D9:121:LEU:HD23	2.22	0.60
2:C3:103:LEU:CD2	3:DZ:163:PRO:HD3	2.30	0.60
1:AH:5:GLY:O	1:AH:6:GLU:HB3	2.01	0.60
3:DL:121:LEU:HD23	3:DL:121:LEU:C	2.22	0.60
3:D5:121:LEU:C	3:D5:121:LEU:HD23	2.22	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FP:25:PHE:HD2	4:FP:26:TYR:CE1	2.19	0.60
4:FG:25:PHE:HD2	4:FG:26:TYR:CE1	2.19	0.60
3:DG:121:LEU:C	3:DG:121:LEU:HD23	2.22	0.60
1:AS:5:GLY:O	1:AS:6:GLU:HB3	2.02	0.60
3:DR:121:LEU:C	3:DR:121:LEU:HD23	2.22	0.60
1:AB:224:ILE:HG13	3:DD:89:TYR:CE1	84.99	0.60
3:EC:121:LEU:C	3:EC:121:LEU:HD23	2.22	0.60
2:CC:213:MET:CE	2:CC:215:VAL:HG22	2.30	0.60
2:CX:110:VAL:HG12	2:CX:215:VAL:HA	1.83	0.60
2:CG:110:VAL:HG12	2:CG:215:VAL:HA	1.83	0.60
2:C6:110:VAL:HG12	2:C6:215:VAL:HA	1.83	0.60
2:CF:207:GLN:HE22	3:DV:192:THR:HA	183.11	0.60
3:DH:160:TYR:OH	3:DH:167:MET:HG2	2.01	0.60
3:EE:160:TYR:OH	3:EE:167:MET:HG2	2.01	0.60
1:A3:19:LEU:HB2	2:C8:48:SER:HB2	1.82	0.60
1:A7:19:LEU:HB2	2:C7:48:SER:HB2	1.82	0.60
1:AC:88:PHE:CE2	1:AC:146:ILE:HG21	2.37	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:AM:88:PHE:CE1	1:AM:205:GLY:CA	2.81	0.60
1:AN:88:PHE:CE2	1:AN:146:ILE:HG21	2.37	0.60
1:AO:209:LEU:CD1	1:AO:210:ARG:H	2.15	0.60
1:AW:209:LEU:O	1:AW:210:ARG:HG2	2.01	0.60
1:BC:137:GLY:HA2	1:BD:38:PHE:HD1	1.65	0.60
3:DA:14:PHE:O	3:DA:15:MET:HB2	2.02	0.60
3:DB:14:PHE:O	3:DB:15:MET:HB2	2.02	0.60
3:DK:14:PHE:O	3:DK:15:MET:HB2	2.02	0.60
3:DS:14:PHE:O	3:DS:15:MET:HB2	2.01	0.60
3:DT:14:PHE:O	3:DT:15:MET:HB2	2.02	0.60
1:AF:74:THR:HG21	3:DF:43:PHE:CZ	2.35	0.60
1:A7:88:PHE:CE2	1:A7:146:ILE:HG21	2.37	0.60
3:ED:14:PHE:O	3:ED:15:MET:HB2	2.01	0.60
1:A0:209:LEU:O	1:A0:210:ARG:HG2	2.01	0.60
1:A0:88:PHE:CE1	1:A0:205:GLY:CA	2.81	0.60
1:A0:38:PHE:HD1	1:AZ:137:GLY:HA2	1.65	0.60
1:AZ:187:LEU:CD2	1:AZ:188:PRO:HD2	2.25	0.60
1:BA:187:LEU:CD2	1:BA:188:PRO:HD2	2.25	0.60
2:C4:113:GLN:HA	2:C4:169:SER:O	2.01	0.60
2:CR:113:GLN:HA	2:CR:169:SER:O	2.01	0.60
2:C3:113:GLN:HA	2:C3:169:SER:O	2.01	0.60
1:AO:86:ILE:N	1:AO:86:ILE:CD1	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:78:ALA:HA	2:CY:196:ILE:O	2.01	0.60
1:A1:86:ILE:N	1:A1:86:ILE:CD1	2.65	0.60
2:CS:113:GLN:HA	2:CS:169:SER:O	2.01	0.60
2:CN:103:LEU:CD2	3:DO:163:PRO:HD3	2.31	0.60
2:CS:103:LEU:CD2	3:DO:163:PRO:HD3	133.36	0.60
2:C6:18:VAL:HG13	2:C6:23:ILE:HG13	1.82	0.60
1:AM:5:GLY:O	1:AM:6:GLU:HB3	2.02	0.60
1:AO:5:GLY:O	1:AO:6:GLU:HB3	2.01	0.60
1:BD:5:GLY:O	1:BD:6:GLU:HB3	2.02	0.60
1:AG:224:ILE:HG13	3:DI:89:TYR:CE1	84.99	0.60
1:AM:224:ILE:HG13	3:DO:89:TYR:CE1	84.99	0.60
1:AO:224:ILE:HG13	3:DS:89:TYR:CE1	129.51	0.60
1:AF:224:ILE:HG13	3:DH:89:TYR:CE1	84.99	0.60
1:AB:224:ILE:HG13	3:DB:89:TYR:CE1	2.36	0.60
1:AZ:224:ILE:HG13	3:D0:89:TYR:CE1	2.37	0.60
1:A7:5:GLY:O	1:A7:6:GLU:HB3	2.01	0.60
3:DC:121:LEU:C	3:DC:121:LEU:HD23	2.22	0.60
4:FW:25:PHE:HD2	4:FW:26:TYR:CE1	2.19	0.60
1:A8:5:GLY:O	1:A8:6:GLU:HB3	2.01	0.60
3:EE:121:LEU:C	3:EE:121:LEU:HD23	2.21	0.60
1:BI:224:ILE:HG13	3:EE:89:TYR:CE1	2.37	0.60
3:DI:121:LEU:C	3:DI:121:LEU:HD23	2.22	0.60
1:AV:224:ILE:HG13	3:DW:89:TYR:CE1	2.37	0.60
3:DH:121:LEU:C	3:DH:121:LEU:HD23	2.22	0.60
4:FK:25:PHE:HD2	4:FK:26:TYR:CE1	2.19	0.60
1:A7:224:ILE:HG13	3:D8:89:TYR:CE1	2.37	0.60
3:D0:121:LEU:HD23	3:D0:121:LEU:C	2.22	0.60
2:CW:115:ASN:C	3:DS:119:LYS:HZ3	250.46	0.60
2:CQ:110:VAL:HG12	2:CQ:215:VAL:HA	1.83	0.60
2:CX:207:GLN:HE22	3:DO:192:THR:HA	225.73	0.60
2:CO:207:GLN:HE22	3:DP:192:THR:HA	1.65	0.60
2:C9:110:VAL:HG12	2:C9:215:VAL:HA	1.83	0.60
2:CE:110:VAL:HG12	2:CE:215:VAL:HA	1.83	0.60
1:AD:19:LEU:HB2	2:CE:48:SER:HB2	89.38	0.60
1:AK:19:LEU:HB2	2:CL:48:SER:HB2	89.38	0.60
1:BD:19:LEU:HB2	2:CR:48:SER:HB2	139.13	0.60
3:ED:160:TYR:OH	3:ED:167:MET:HG2	2.01	0.60
1:BC:19:LEU:HB2	2:CQ:48:SER:HB2	124.69	0.60
1:A8:88:PHE:CE2	1:A8:146:ILE:HG21	2.37	0.60
1:AD:102:VAL:HG22	1:AD:199:SER:CB	2.30	0.60
1:AD:209:LEU:O	1:AD:210:ARG:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:209:LEU:CD1	1:AF:210:ARG:H	2.15	0.60
1:AO:209:LEU:O	1:AO:210:ARG:HG2	2.01	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:BI:102:VAL:HG22	1:BI:199:SER:CB	2.31	0.60
1:BI:88:PHE:CE2	1:BI:146:ILE:HG21	2.37	0.60
3:DI:42:ASN:HD22	3:DI:44:ILE:HG22	1.65	0.60
1:A3:38:PHE:HD1	1:A7:137:GLY:HA2	1.65	0.60
1:AV:209:LEU:CD1	1:AV:210:ARG:H	2.15	0.60
1:A4:209:LEU:CD1	1:A4:210:ARG:H	2.15	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:AC:173:GLY:CA	2:CE:188:LEU:O	102.01	0.60
1:A4:130:ILE:HD11	1:A4:135:VAL:CG1	2.30	0.60
1:AG:223:PRO:HD3	2:CI:158:PHE:CZ	93.44	0.60
1:AV:173:GLY:CA	2:CW:188:LEU:O	2.50	0.60
2:CG:78:ALA:HA	2:CG:196:ILE:O	2.02	0.60
2:C8:113:GLN:HA	2:C8:169:SER:O	2.00	0.60
2:C1:113:GLN:HA	2:C1:169:SER:O	2.00	0.60
2:C1:78:ALA:HA	2:C1:196:ILE:O	2.01	0.60
1:A5:223:PRO:HD3	2:C6:158:PHE:CZ	2.37	0.60
2:C0:113:GLN:HA	2:C0:169:SER:O	2.00	0.60
2:CJ:78:ALA:HA	2:CJ:196:ILE:O	2.02	0.60
2:CT:78:ALA:HA	2:CT:196:ILE:O	2.02	0.60
2:CQ:78:ALA:HA	2:CQ:196:ILE:O	2.02	0.60
2:CM:78:ALA:HA	2:CM:196:ILE:O	2.02	0.60
1:AC:86:ILE:N	1:AC:86:ILE:CD1	2.65	0.60
1:AQ:86:ILE:N	1:AQ:86:ILE:CD1	2.65	0.60
1:AD:86:ILE:N	1:AD:86:ILE:CD1	2.65	0.60
2:CB:78:ALA:HA	2:CB:196:ILE:O	2.01	0.60
2:CV:54:LEU:HD12	2:CV:220:ALA:CB	2.31	0.60
2:CC:103:LEU:CD2	3:DD:163:PRO:HD3	2.31	0.60
2:C6:103:LEU:CD2	3:D7:163:PRO:HD3	2.30	0.60
4:FI:25:PHE:HD2	4:FI:26:TYR:CE1	2.19	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:AE:224:ILE:HG13	3:DG:89:TYR:CE1	114.63	0.60
1:AM:224:ILE:HG13	3:DM:89:TYR:CE1	2.37	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:BE:5:GLY:O	1:BE:6:GLU:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:224:ILE:HG13	3:DL:89:TYR:CE1	2.37	0.60
1:BI:5:GLY:O	1:BI:6:GLU:HB3	2.01	0.60
1:AZ:74:THR:HG21	3:D0:43:PHE:CZ	2.35	0.60
1:AU:224:ILE:HG13	3:DV:89:TYR:CE1	2.37	0.60
1:BG:224:ILE:HG13	3:EC:89:TYR:CE1	2.37	0.60
3:ED:121:LEU:C	3:ED:121:LEU:HD23	2.22	0.60
3:DJ:121:LEU:C	3:DJ:121:LEU:HD23	2.22	0.60
3:DT:121:LEU:HD23	3:DT:121:LEU:C	2.21	0.60
1:AQ:224:ILE:HG13	3:DQ:89:TYR:CE1	2.37	0.60
1:BB:224:ILE:HG13	3:DQ:89:TYR:CE1	113.20	0.60
4:FB:25:PHE:HD2	4:FB:26:TYR:CE1	2.19	0.60
4:FL:25:PHE:HD2	4:FL:26:TYR:CE1	2.19	0.60
2:CI:115:ASN:CA	3:DJ:119:LYS:HD2	66.12	0.60
2:CV:115:ASN:CA	3:DB:119:LYS:HD2	2.31	0.60
2:C1:110:VAL:HG12	2:C1:215:VAL:HA	1.83	0.60
2:CX:207:GLN:HE22	3:DR:192:THR:HA	161.26	0.60
2:C6:207:GLN:HE22	3:DE:192:THR:HA	1.65	0.60
2:C4:213:MET:CE	2:C4:215:VAL:HG22	2.30	0.60
1:AG:19:LEU:HB2	2:CH:48:SER:HB2	89.38	0.60
3:D1:160:TYR:OH	3:D1:167:MET:HG2	2.01	0.60
1:A8:209:LEU:CD1	1:A8:210:ARG:H	2.15	0.60
1:A8:121:LEU:CD2	1:A9:207:CYS:H	2.12	0.60
1:A9:88:PHE:CE2	1:A9:146:ILE:HG21	2.37	0.60
1:AE:209:LEU:CD1	1:AE:210:ARG:H	2.15	0.60
1:AG:121:LEU:CD2	1:AH:207:CYS:H	2.12	0.60
1:AJ:88:PHE:CE2	1:AJ:146:ILE:HG21	2.36	0.60
1:AL:88:PHE:CE2	1:AL:146:ILE:HG21	2.37	0.60
1:AS:209:LEU:O	1:AS:210:ARG:HG2	2.01	0.60
1:AW:102:VAL:HG22	1:AW:199:SER:CB	2.31	0.60
1:AX:209:LEU:CD1	1:AX:210:ARG:H	2.15	0.60
1:BA:209:LEU:O	1:BA:210:ARG:HG2	2.01	0.60
1:BF:209:LEU:O	1:BF:210:ARG:HG2	2.01	0.60
3:DI:14:PHE:O	3:DI:15:MET:HB2	2.02	0.60
3:DN:14:PHE:O	3:DN:15:MET:HB2	2.01	0.60
3:DC:42:ASN:HD22	3:DC:44:ILE:HG22	1.65	0.60
3:DB:42:ASN:HD22	3:DB:44:ILE:HG22	1.65	0.60
1:A6:102:VAL:HG22	1:A6:199:SER:CB	2.30	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:A0:88:PHE:CE2	1:A0:146:ILE:HG21	2.37	0.60
1:A1:88:PHE:CE2	1:A1:146:ILE:HG21	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:209:LEU:O	1:A2:210:ARG:HG2	2.01	0.60
1:AA:173:GLY:CA	2:CC:188:LEU:O	102.01	0.60
1:A6:173:GLY:CA	2:C7:188:LEU:O	2.50	0.60
1:A3:173:GLY:CA	2:C4:188:LEU:O	2.50	0.60
1:AM:223:PRO:HD3	2:CM:158:PHE:CZ	2.37	0.60
2:CF:78:ALA:HA	2:CF:196:ILE:O	2.02	0.60
2:CP:78:ALA:HA	2:CP:196:ILE:O	2.01	0.60
2:CU:78:ALA:HA	2:CU:196:ILE:O	2.01	0.60
2:C5:78:ALA:HA	2:C5:196:ILE:O	2.01	0.60
2:CH:78:ALA:HA	2:CH:196:ILE:O	2.01	0.60
2:CO:78:ALA:HA	2:CO:196:ILE:O	2.01	0.60
2:CW:78:ALA:HA	2:CW:196:ILE:O	2.02	0.60
1:AL:86:ILE:N	1:AL:86:ILE:CD1	2.65	0.60
1:AJ:86:ILE:N	1:AJ:86:ILE:CD1	2.65	0.60
1:A6:86:ILE:CD1	1:A6:86:ILE:N	2.65	0.60
1:AX:173:GLY:CA	2:CY:188:LEU:O	2.50	0.60
1:BF:104:VAL:HG22	1:BF:197:LEU:HD23	1.80	0.60
2:CD:103:LEU:CD2	3:D9:163:PRO:HD3	156.46	0.60
2:CW:103:LEU:CD2	3:EE:163:PRO:HD3	205.04	0.60
2:C8:103:LEU:CD2	3:D4:163:PRO:HD3	2.30	0.60
2:C2:18:VAL:HG13	2:C2:23:ILE:HG13	1.82	0.60
4:FN:25:PHE:HD2	4:FN:26:TYR:CE1	2.19	0.60
1:AI:224:ILE:HG13	3:DK:89:TYR:CE1	253.90	0.60
1:AE:224:ILE:HG13	3:DE:89:TYR:CE1	2.37	0.60
1:AB:5:GLY:O	1:AB:6:GLU:HB3	2.01	0.60
1:AN:224:ILE:HG13	3:DN:89:TYR:CE1	2.37	0.60
1:A3:224:ILE:HG13	3:D4:89:TYR:CE1	2.36	0.60
3:DP:121:LEU:HD23	3:DP:121:LEU:C	2.22	0.60
3:EB:121:LEU:HD23	3:EB:121:LEU:C	2.22	0.60
3:DV:121:LEU:C	3:DV:121:LEU:HD23	2.22	0.60
3:DE:121:LEU:HD23	3:DE:121:LEU:C	2.22	0.60
1:BF:5:GLY:O	1:BF:6:GLU:HB3	2.01	0.60
1:A1:5:GLY:O	1:A1:6:GLU:HB3	2.01	0.60
1:AU:5:GLY:O	1:AU:6:GLU:HB3	2.01	0.60
1:AP:224:ILE:HG13	3:DP:89:TYR:CE1	2.37	0.60
2:C8:213:MET:CE	2:C8:215:VAL:HG22	2.30	0.60
2:CM:207:GLN:HE22	3:DI:192:THR:HA	267.46	0.60
2:CT:207:GLN:HE22	3:DK:192:THR:HA	1.65	0.60
2:CD:115:ASN:CA	3:D7:119:LYS:HD2	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:115:ASN:C	3:DE:119:LYS:HZ3	2.05	0.60
2:C3:110:VAL:HG12	2:C3:215:VAL:HA	1.83	0.60
2:CS:115:ASN:CA	3:DC:119:LYS:HD2	257.30	0.60
1:AM:19:LEU:HB2	2:CL:48:SER:HB2	1.82	0.60
3:DW:160:TYR:OH	3:DW:167:MET:HG2	2.01	0.60
1:AA:207:CYS:H	1:AE:121:LEU:CD2	2.12	0.60
1:AB:209:LEU:O	1:AB:210:ARG:HG2	2.01	0.60
1:AA:137:GLY:HA2	1:AB:38:PHE:HD1	1.65	0.60
1:AH:209:LEU:CD1	1:AH:210:ARG:H	2.15	0.60
1:AJ:102:VAL:HG22	1:AJ:199:SER:CB	2.30	0.60
1:AJ:209:LEU:O	1:AJ:210:ARG:HG2	2.01	0.60
1:AN:209:LEU:CD1	1:AN:210:ARG:H	2.15	0.60
1:AO:88:PHE:CE2	1:AO:146:ILE:HG21	2.37	0.60
1:AP:209:LEU:CD1	1:AP:210:ARG:H	2.15	0.60
1:AT:88:PHE:CE1	1:AT:205:GLY:CA	2.81	0.60
3:DP:14:PHE:O	3:DP:15:MET:HB2	2.01	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
3:D5:27:PRO:HB3	4:F5:30:TYR:HA	1.82	0.60
1:AO:173:GLY:CA	2:CO:188:LEU:O	2.50	0.60
1:AB:173:GLY:CA	2:CB:188:LEU:O	2.50	0.60
1:AJ:173:GLY:CA	2:CJ:188:LEU:O	2.50	0.60
1:AJ:173:GLY:CA	2:CL:188:LEU:O	254.85	0.60
1:A8:130:ILE:HD11	1:A8:135:VAL:CG1	2.30	0.60
1:AM:130:ILE:HD11	1:AM:135:VAL:CG1	2.30	0.60
1:BB:130:ILE:HD11	1:BB:135:VAL:CG1	2.30	0.60
2:C6:15:GLU:HG3	2:C6:29:SER:CB	2.30	0.60
1:AG:223:PRO:HD3	2:CG:158:PHE:CZ	2.37	0.60
1:AI:223:PRO:HD3	2:CI:158:PHE:CZ	2.37	0.60
1:AN:223:PRO:HD3	2:CN:158:PHE:CZ	2.37	0.60
1:AT:223:PRO:HD3	2:CU:158:PHE:CZ	2.37	0.60
1:BH:223:PRO:HD3	2:CW:158:PHE:CZ	231.69	0.60
1:BB:223:PRO:HD3	2:CQ:158:PHE:CZ	116.19	0.60
1:AY:223:PRO:HD3	2:CZ:158:PHE:CZ	2.37	0.60
1:A7:223:PRO:HD3	2:C8:158:PHE:CZ	2.37	0.60
1:BG:223:PRO:HD3	2:CV:158:PHE:CZ	248.51	0.60
1:AZ:223:PRO:HD3	2:C0:158:PHE:CZ	2.37	0.60
2:CZ:78:ALA:HA	2:CZ:196:ILE:O	2.02	0.60
1:BF:173:GLY:CA	2:CU:188:LEU:O	255.77	0.60
1:AH:86:ILE:N	1:AH:86:ILE:CD1	2.65	0.60
1:AA:86:ILE:CD1	1:AA:86:ILE:N	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:223:PRO:HD3	2:C2:158:PHE:CZ	2.37	0.60
2:CD:78:ALA:HA	2:CD:196:ILE:O	2.02	0.60
2:CX:113:GLN:HA	2:CX:169:SER:O	2.01	0.60
2:CX:78:ALA:HA	2:CX:196:ILE:O	2.01	0.60
1:BG:86:ILE:N	1:BG:86:ILE:CD1	2.65	0.60
1:AR:86:ILE:N	1:AR:86:ILE:CD1	2.65	0.60
1:AF:86:ILE:CD1	1:AF:86:ILE:N	2.65	0.60
2:CP:54:LEU:HD12	2:CP:220:ALA:CB	2.31	0.60
4:F9:25:PHE:HD2	4:F9:26:TYR:CE1	2.19	0.60
1:AG:5:GLY:O	1:AG:6:GLU:HB3	2.01	0.60
1:AO:224:ILE:HG13	3:DO:89:TYR:CE1	2.37	0.60
1:AD:5:GLY:O	1:AD:6:GLU:HB3	2.01	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
1:BA:224:ILE:HG13	3:DP:89:TYR:CE1	112.81	0.60
3:DQ:121:LEU:C	3:DQ:121:LEU:HD23	2.22	0.60
3:D3:121:LEU:HD23	3:D3:121:LEU:C	2.21	0.60
1:A5:224:ILE:HG13	3:D6:89:TYR:CE1	2.37	0.60
1:A2:224:ILE:HG13	3:D3:89:TYR:CE1	2.37	0.60
1:BH:224:ILE:HG13	3:ED:89:TYR:CE1	2.37	0.60
1:AQ:5:GLY:O	1:AQ:6:GLU:HB3	2.01	0.60
4:F6:25:PHE:HD2	4:F6:26:TYR:CE1	2.19	0.60
2:C8:110:VAL:HG12	2:C8:215:VAL:HA	1.83	0.60
2:CK:110:VAL:HG12	2:CK:215:VAL:HA	1.83	0.60
2:CR:207:GLN:HE22	3:DI:192:THR:HA	166.21	0.60
2:CL:207:GLN:HE22	3:D8:192:THR:HA	114.30	0.60
2:CQ:207:GLN:HE22	3:DY:192:THR:HA	114.30	0.60
2:CX:115:ASN:CA	3:DO:119:LYS:HD2	213.57	0.60
2:CO:207:GLN:HE22	3:DR:192:THR:HA	154.54	0.60
2:CQ:115:ASN:CA	3:DY:119:LYS:HD2	112.66	0.60
2:C9:115:ASN:CA	3:DL:119:LYS:HD2	89.34	0.60
2:C3:213:MET:CE	2:C3:215:VAL:HG22	2.30	0.60
2:CS:115:ASN:C	3:EA:119:LYS:HZ3	159.73	0.60
2:CE:207:GLN:HE22	3:DF:192:THR:HA	1.65	0.60
1:A8:19:LEU:HB2	2:CD:48:SER:HB2	149.01	0.60
3:DQ:160:TYR:OH	3:DQ:167:MET:HG2	2.01	0.60
3:DY:160:TYR:OH	3:DY:167:MET:HG2	2.01	0.60
1:BH:19:LEU:HB2	2:CV:48:SER:HB2	223.31	0.60
3:D2:160:TYR:OH	3:D2:167:MET:HG2	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:88:PHE:CE2	1:AB:146:ILE:HG21	2.37	0.60
1:AE:102:VAL:HG22	1:AE:199:SER:CB	2.31	0.60
1:AE:88:PHE:CE2	1:AE:146:ILE:HG21	2.37	0.60
1:AK:88:PHE:CE2	1:AK:146:ILE:HG21	2.37	0.60
1:BF:137:GLY:HA2	1:BG:38:PHE:HD1	1.65	0.60
3:DC:14:PHE:O	3:DC:15:MET:HB2	2.02	0.60
3:DJ:14:PHE:O	3:DJ:15:MET:HB2	2.01	0.60
3:DY:14:PHE:O	3:DY:15:MET:HB2	2.02	0.60
3:DJ:42:ASN:HD22	3:DJ:44:ILE:HG22	1.65	0.60
1:A3:209:LEU:O	1:A3:210:ARG:HG2	2.01	0.60
1:AV:209:LEU:O	1:AV: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:AI:173:GLY:CA	2:CI:188:LEU:O	2.50	0.60
1:BD:173:GLY:CA	2:CS:188:LEU:O	161.17	0.60
1:AG:173:GLY:CA	2:CI:188:LEU:O	102.01	0.60
1:AN:173:GLY:CA	2:CB:188:LEU:O	201.84	0.60
1:AD:173:GLY:CA	2:CD:188:LEU:O	2.50	0.60
1:AF:173:GLY:CA	2:CF:188:LEU:O	2.50	0.60
1:BI:173:GLY:CA	2:CX:188:LEU:O	169.30	0.60
1:AP:173:GLY:CA	2:CP:188:LEU:O	2.50	0.60
2:CT:27:GLN:HG3	2:CT:28:GLY:N	2.17	0.60
2:CM:27:GLN:HG3	2:CM:28:GLY:N	2.17	0.60
2:C0:15:GLU:HG3	2:C0:29:SER:CB	2.30	0.60
1:A9:223:PRO:HD3	2:CA:158:PHE:CZ	241.72	0.60
1:AB:223:PRO:HD3	2:CD:158:PHE:CZ	93.44	0.60
1:BH:173:GLY:CA	2:CW:188:LEU:O	227.34	0.60
2:CR:78:ALA:HA	2:CR:196:ILE:O	2.02	0.60
2:CE:78:ALA:HA	2:CE:196:ILE:O	2.02	0.60
2:CS:78:ALA:HA	2:CS:196:ILE:O	2.01	0.60
1:AU:86:ILE:CD1	1:AU:86:ILE:N	2.65	0.60
2:C1:54:LEU:HD12	2:C1:220:ALA:CB	2.31	0.60
2:CJ:103:LEU:CD2	3:DF:163:PRO:HD3	2.30	0.60
2:C4:18:VAL:HG13	2:C4:23:ILE:HG13	1.82	0.60
4:FT:25:PHE:HD2	4:FT:26:TYR:CE1	2.19	0.60
1:AK:5:GLY:O	1:AK:6:GLU:HB3	2.01	0.60
1:AN:224:ILE:HG13	3:DB:89:TYR:CE1	192.08	0.60
1:A8:224:ILE:HG13	3:D9:89:TYR:CE1	2.37	0.60
3:DX:121:LEU:C	3:DX:121:LEU:HD23	2.22	0.60
1:AW:74:THR:HG21	3:DX:43:PHE:CZ	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:115:ASN:CA	3:DN:119:LYS:HD2	158.62	0.60
2:C2:213:MET:CE	2:C2:215:VAL:HG22	2.30	0.60
2:C0:213:MET:CE	2:C0:215:VAL:HG22	2.30	0.60
2:CP:207:GLN:HE22	3:D0:192:THR:HA	94.59	0.60
1:AN:19:LEU:HB2	2:CA:48:SER:HB2	176.17	0.60
1:AO:19:LEU:HB2	2:CR:48:SER:HB2	146.45	0.60
1:AL:19:LEU:HB2	2:CM:48:SER:HB2	89.38	0.60
3:DM:100:TYR:CE1	3:DM:167:MET:HB2	2.37	0.60
1:A2:19:LEU:HB2	2:C2:48:SER:HB2	1.82	0.60
1:BG:19:LEU:HB2	2:CU:48:SER:HB2	226.57	0.60
3:D4:160:TYR:OH	3:D4:167:MET:HG2	2.01	0.60
3:D2:100:TYR:CE2	3:D2:167:MET:HB2	2.37	0.60
1:AA:88:PHE:CE2	1:AA:146:ILE:HG21	2.37	0.60
1:AD:88:PHE:CE2	1:AD:146:ILE:HG21	2.37	0.60
1:AF:209:LEU:O	1:AF:210:ARG:HG2	2.01	0.60
1:AI:88:PHE:CE2	1:AI:146:ILE:HG21	2.37	0.60
1:AL:102:VAL:HG22	1:AL:199:SER:CB	2.31	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:AW:209:LEU:CD1	1:AW:210:ARG:H	2.15	0.60
1:BA:121:LEU:CD2	1:BB:207:CYS:H	2.12	0.60
1:BD:209:LEU:CD1	1:BD:210:ARG:H	2.15	0.60
3:DF:14:PHE:O	3:DF:15:MET:HB2	2.02	0.60
3:DO:14:PHE:O	3:DO:15:MET:HB2	2.01	0.60
3:EB:14:PHE:O	3:EB:15:MET:HB2	2.02	0.60
3:D8:14:PHE:O	3:D8:15:MET:HB2	2.02	0.60
3:ED:42:ASN:HD22	3:ED:44:ILE:HG22	1.65	0.60
1:A3:137:GLY:HA2	1:A4:38:PHE:HD1	1.65	0.60
1:A7:173:GLY:CA	2:C8:188:LEU:O	2.50	0.60
1:AC:115:THR:HG22	1:AC:131:GLN:OE1	2.02	0.60
1:AE:115:THR:HG22	1:AE:131:GLN:OE1	2.02	0.60
1:AN:115:THR:HG22	1:AN:131:GLN:OE1	2.02	0.60
1:AA:115:THR:HG22	1:AA:131:GLN:OE1	2.02	0.60
1:AX:115:THR:HG22	1:AX:131:GLN:OE1	2.02	0.60
1:AU:115:THR:HG22	1:AU:131:GLN:OE1	2.02	0.60
1:AK:115:THR:HG22	1:AK:131:GLN:OE1	2.02	0.60
2:CF:27:GLN:HG3	2:CF:28:GLY:N	2.17	0.60
2:CZ:15:GLU:HG3	2:CZ:29:SER:CB	2.30	0.60
1:AC:223:PRO:HD3	2:CC:158:PHE:CZ	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:223:PRO:HD3	2:CE:158:PHE:CZ	2.37	0.60
1:AI:223:PRO:HD3	2:CK:158:PHE:CZ	259.47	0.60
1:AA:223:PRO:HD3	2:CC:158:PHE:CZ	93.44	0.60
1:BE:173:GLY:CA	2:CT:188:LEU:O	210.96	0.60
1:AU:223:PRO:HD3	2:CV:158:PHE:CZ	2.37	0.60
1:A1:173:GLY:CA	2:C2:188:LEU:O	2.50	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
1:AB:86:ILE:N	1:AB:86:ILE:CD1	2.65	0.60
2:CC:78:ALA:HA	2:CC:196:ILE:O	2.02	0.60
2:C9:78:ALA:HA	2:C9:196:ILE:O	2.02	0.60
1:BC:173:GLY:CA	2:CR:188:LEU:O	158.69	0.60
1:BI:86:ILE:N	1:BI:86:ILE:CD1	2.65	0.60
1:AW:86:ILE:CD1	1:AW:86:ILE:N	2.65	0.60
1:A0:86:ILE:N	1:A0:86:ILE:CD1	2.65	0.60
2:CZ:54:LEU:HD12	2:CZ:220:ALA:CB	2.31	0.60
4:FS:25:PHE:HD2	4:FS:26:TYR:CE1	2.19	0.60
4:FX:25:PHE:HD2	4:FX:26:TYR:CE1	2.19	0.60
4:FJ:25:PHE:HD2	4:FJ:26:TYR:CE1	2.19	0.60
1:AI:5:GLY:O	1:AI:6:GLU:HB3	2.01	0.60
1:AG:224:ILE:HG13	3:DG:89:TYR:CE1	2.37	0.60
1:BD:224:ILE:HG13	3:DS:89:TYR:CE1	151.09	0.60
1:AH:224:ILE:HG13	3:DJ:89:TYR:CE1	84.99	0.60
1:AJ:224:ILE:HG13	3:DL:89:TYR:CE1	252.76	0.60
1:BH:5:GLY:O	1:BH:6:GLU:HB3	2.01	0.60
1:A1:224:ILE:HG13	3:D2:89:TYR:CE1	2.37	0.60
1:BF:224:ILE:HG13	3:EB:89:TYR:CE1	2.37	0.60
3:D4:121:LEU:C	3:D4:121:LEU:HD23	2.22	0.60
1:AC:136:ALA:H	1:AD:39:ASP:HB2	1.67	0.60
1:AV:5:GLY:O	1:AV:6:GLU:HB3	2.02	0.60
1:A4:224:ILE:HG13	3:D5:89:TYR:CE1	2.37	0.60
2:CV:110:VAL:HG12	2:CV:215:VAL:HA	1.83	0.60
2:CR:115:ASN:ND2	3:DI:189:THR:O	160.99	0.60
2:C2:110:VAL:HG12	2:C2:215:VAL:HA	1.83	0.60
2:CG:115:ASN:CA	3:D3:119:LYS:HD2	256.10	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	256.67	0.60
2:CS:115:ASN:C	3:DC:119:LYS:HZ3	259.58	0.60
2:CS:115:ASN:ND2	3:EA:189:THR:O	159.53	0.60
1:AK:19:LEU:HB2	2:CO:48:SER:HB2	1.82	0.60
1:AS:19:LEU:HB2	2:CS:48:SER:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DI:100:TYR:CE2	3:DI:167:MET:HB2	3.15	0.60
1:AB:102:VAL:HG22	1:AB:199:SER:CB	2.31	0.60
1:AG:209:LEU:CD1	1:AG:210:ARG:H	2.15	0.60
1:AG:88:PHE:CE2	1:AG:146:ILE:HG21	2.37	0.60
1:AK:38:PHE:HD1	1:AO:137:GLY:HA2	1.65	0.60
1:AQ:88:PHE:CE1	1:AQ:205:GLY:CA	2.81	0.60
1:AT:209:LEU:O	1:AT:210:ARG:HG2	2.01	0.60
1:BE:209:LEU:O	1:BE:210:ARG:HG2	2.01	0.60
3:DH:14:PHE:O	3:DH:15:MET:HB2	2.02	0.60
3:DX:14:PHE:O	3:DX:15:MET:HB2	2.02	0.60
1:A3:88:PHE:CE2	1:A3:146:ILE:HG21	2.37	0.60
3:DZ:27:PRO:HB3	4:FZ:30:TYR:HA	1.81	0.60
1:AE:173:GLY:CA	2:CG:188:LEU:O	134.07	0.60
1:AA:173:GLY:CA	2:CA:188:LEU:O	2.50	0.60
1:AO:173:GLY:CA	2:CS:188:LEU:O	101.23	0.60
1:AH:173:GLY:CA	2:CJ:188:LEU:O	102.01	0.60
1:AL:173:GLY:CA	2:CL:188:LEU:O	2.50	0.60
1:AN:173:GLY:CA	2:CN:188:LEU:O	2.50	0.60
1:AL:115:THR:HG22	1:AL:131:GLN:OE1	2.02	0.60
1:AT:115:THR:HG22	1:AT:131:GLN:OE1	2.02	0.60
2:C5:55:GLY:HA3	2:CF:52:THR:HG23	1.84	0.60
2:CF:55:GLY:HA3	2:CU:52:THR:HG23	193.27	0.60
1:BG:115:THR:HG22	1:BG:131:GLN:OE1	2.02	0.60
2:CO:55:GLY:HA3	2:CT:52:THR:HG23	1.84	0.60
2:CO:52:THR:HG23	2:CT:55:GLY:HA3	1.84	0.60
1:AY:115:THR:HG22	1:AY:131:GLN:OE1	2.02	0.60
2:CD:27:GLN:HG3	2:CD:28:GLY:N	2.17	0.60
2:C1:27:GLN:HG3	2:C1:28:GLY:N	2.17	0.60
2:CW:27:GLN:HG3	2:CW:28:GLY:N	2.17	0.60
2:CL:27:GLN:HG3	2:CL:28:GLY:N	2.17	0.60
1:AH:223:PRO:HD3	2:CJ:158:PHE:CZ	93.44	0.60
1:AJ:223:PRO:HD3	2:CL:158:PHE:CZ	253.33	0.60
1:A0:223:PRO:HD3	2:C1:158:PHE:CZ	2.37	0.60
1:AR:223:PRO:HD3	2:CR:158:PHE:CZ	2.37	0.60
1:AQ:223:PRO:HD3	2:CQ:158:PHE:CZ	2.37	0.60
1:A0:173:GLY:CA	2:C1:188:LEU:O	2.50	0.60
2:CV:78:ALA:HA	2:CV:196:ILE:O	2.01	0.60
2:C2:78:ALA:HA	2:C2:196:ILE:O	2.02	0.60
1:A7:86:ILE:CD1	1:A7:86:ILE:N	2.65	0.60
1:AG:86:ILE:N	1:AG:86:ILE:CD1	2.65	0.60
1:A3:86:ILE:N	1:A3:86:ILE:CD1	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:103:LEU:CD2	3:D2:163:PRO:HD3	2.30	0.60
1:A9:224:ILE:HG13	3:DA:89:TYR:CE1	234.07	0.60
1:AL:5:GLY:O	1:AL:6:GLU:HB3	2.01	0.60
1:AN:5:GLY:O	1:AN:6:GLU:HB3	2.01	0.60
1:AD:224:ILE:HG13	3:DF:89:TYR:CE1	111.24	0.60
1:AT:39:ASP:HB2	1:AX:136:ALA:H	1.67	0.60
1:AP:136:ALA:H	1:AQ:39:ASP:HB2	1.67	0.60
1:AT:224:ILE:HG13	3:DU:89:TYR:CE1	2.37	0.60
1:A6:224:ILE:HG13	3:D7:89:TYR:CE1	2.37	0.60
2:C1:36:TYR:HE2	2:C1:130:PRO:CG	2.15	0.60
1:BC:224:ILE:HG13	3:DR:89:TYR:CE1	143.46	0.60
2:C7:110:VAL:HG12	2:C7:215:VAL:HA	1.83	0.60
2:CK:213:MET:CE	2:CK:215:VAL:HG22	2.30	0.60
2:CT:115:ASN:CA	3:DK:119:LYS:HD2	2.31	0.60
2:CX:115:ASN:ND2	3:DO:189:THR:O	218.44	0.60
2:CZ:115:ASN:ND2	3:DQ:189:THR:O	94.35	0.60
2:CE:115:ASN:CA	3:DF:119:LYS:HD2	2.31	0.60
1:AA:19:LEU:HB2	2:CE:48:SER:HB2	1.82	0.60
1:AF:19:LEU:HB2	2:CJ:48:SER:HB2	1.82	0.60
1:AW:19:LEU:HB2	2:CW:48:SER:HB2	1.82	0.60
3:D8:100:TYR:CE2	3:D8:167:MET:HB2	2.37	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:AF:88:PHE:CE2	1:AF:146:ILE:HG21	2.37	0.60
1:AU:209:LEU:CD1	1:AU:210:ARG:H	2.15	0.60
3:DW:14:PHE:O	3:DW:15:MET:HB2	2.01	0.60
1:A3:102:VAL:HG22	1:A3:199:SER:CB	2.31	0.60
1:A2:88:PHE:CE2	1:A2:146:ILE:HG21	2.37	0.60
1:AZ:102:VAL:HG22	1:AZ:199:SER:CB	2.30	0.60
3:D3:14:PHE:O	3:D3:15:MET:HB2	2.01	0.60
1:AM:173:GLY:CA	2:CO:188:LEU:O	102.01	0.60
1:AF:173:GLY:CA	2:CH:188:LEU:O	102.01	0.60
1:BF:115:THR:HG22	1:BF:131:GLN:OE1	2.02	0.60
2:CA:55:GLY:HA3	2:CK:52:THR:HG23	231.37	0.60
1:A6:115:THR:HG22	1:A6:131:GLN:OE1	2.02	0.60
2:C7:55:GLY:HA3	2:CL:52:THR:HG23	124.56	0.60
2:CI:55:GLY:HA3	2:CN:52:THR:HG23	211.11	0.60
1:A0:115:THR:HG22	1:A0:131:GLN:OE1	2.02	0.60
1:A9:115:THR:HG22	1:A9:131:GLN:OE1	2.02	0.60
1:AM:115:THR:HG22	1:AM:131:GLN:OE1	2.02	0.60
1:A7:130:ILE:HD11	1:A7:135:VAL:CG1	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:115:THR:HG22	1:AF:131:GLN:OE1	2.02	0.60
2:CP:52:THR:HG23	2:CZ:55:GLY:HA3	77.81	0.60
1:BA:115:THR:HG22	1:BA:131:GLN:OE1	2.02	0.60
1:AQ:115:THR:HG22	1:AQ:131:GLN:OE1	2.02	0.60
2:CH:27:GLN:HG3	2:CH:28:GLY:N	2.17	0.60
2:CB:27:GLN:HG3	2:CB:28:GLY:N	2.17	0.60
2:CV:27:GLN:HG3	2:CV:28:GLY:N	2.17	0.60
2:CE:27:GLN:HG3	2:CE:28:GLY:N	2.17	0.60
2:CS:27:GLN:HG3	2:CS:28:GLY:N	2.17	0.60
1:AB:223:PRO:HD3	2:CB:158:PHE:CZ	2.37	0.60
1:AH:223:PRO:HD3	2:CH:158:PHE:CZ	2.37	0.60
1:AD:223:PRO:HD3	2:CF:158:PHE:CZ	108.54	0.60
1:AS:223:PRO:HD3	2:CT:158:PHE:CZ	2.37	0.60
1:AX:223:PRO:HD3	2:CY:158:PHE:CZ	2.37	0.60
1:AV:223:PRO:HD3	2:CW:158:PHE:CZ	2.37	0.60
3:DU:56:ILE:HD12	3:DU:56:ILE:N	2.17	0.60
2:C4:78:ALA:HA	2:C4:196:ILE:O	2.02	0.60
1:AE:86:ILE:CD1	1:AE:86:ILE:N	2.65	0.60
1:AN:86:ILE:CD1	1:AN:86:ILE:N	2.65	0.60
1:BE:86:ILE:N	1:BE:86:ILE:CD1	2.65	0.60
1:AI:86:ILE:CD1	1:AI:86:ILE:N	2.65	0.60
1:BB:86:ILE:CD1	1:BB:86:ILE:N	2.65	0.60
1:A8:86:ILE:N	1:A8:86:ILE:CD1	2.65	0.60
2:CC:18:VAL:HG13	2:CC:23:ILE:HG13	1.82	0.60
1:AC:5:GLY:O	1:AC:6:GLU:HB3	2.02	0.60
1:AP:5:GLY:O	1:AP:6:GLU:HB3	2.01	0.60
1:AI:224:ILE:HG13	3:DI:89:TYR:CE1	2.37	0.60
2:CY:36:TYR:HE2	2:CY:130:PRO:CG	2.15	0.60
1:A0:224:ILE:HG13	3:D1:89:TYR:CE1	2.37	0.60
4:F8:25:PHE:HD2	4:F8:26:TYR:CE1	2.19	0.60
1:BE:136:ALA:H	1:BF:39:ASP:HB2	1.67	0.60
2:CR:36:TYR:HE2	2:CR:130:PRO:CG	2.15	0.60
2:CK:176:PRO:O	2:CK:192:TRP:NE1	2.36	0.60
4:F5:25:PHE:HD2	4:F5:26:TYR:CE1	2.19	0.60
1:AW:224:ILE:HG13	3:DX:89:TYR:CE1	2.37	0.60
1:AD:136:ALA:H	1:AE:39:ASP:HB2	1.67	0.60
2:CI:110:VAL:HG12	2:CI:215:VAL:HA	1.83	0.59
2:CW:110:VAL:HG12	2:CW:215:VAL:HA	1.83	0.59
2:CK:115:ASN:CA	3:DA:119:LYS:HD2	270.77	0.59
2:CR:213:MET:CE	2:CR:215:VAL:HG22	2.30	0.59
2:CV:115:ASN:ND2	3:DD:189:THR:O	145.48	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CU:115:ASN:ND2	3:D5:189:THR:O	262.00	0.59
2:C1:115:ASN:C	3:DO:119:LYS:HZ3	2.05	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:CP:110:VAL:HG12	2:CP:215:VAL:HA	1.83	0.59
3:DA:100:TYR:CE1	3:DA:167:MET:HB2	3.15	0.59
3:DC:100:TYR:CE2	3:DC:167:MET:HB2	3.15	0.59
3:DF:100:TYR:CE2	3:DF:167:MET:HB2	2.37	0.59
3:DH:100:TYR:CE2	3:DH:167:MET:HB2	2.37	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:DT:100:TYR:CE1	3:DT:167:MET:HB2	2.37	0.59
1:BE:19:LEU:HB2	2:CX:48:SER:HB2	149.02	0.59
3:DU:160:TYR:OH	3:DU:167:MET:HG2	2.01	0.59
3:ED:100:TYR:CE1	3:ED:167:MET:HB2	2.37	0.59
1:AD:209:LEU:CD1	1:AD:210:ARG:H	2.15	0.59
1:AK:121:LEU:CD2	1:AL:207:CYS:H	2.12	0.59
1:AO:207:CYS:H	1:AR:121:LEU:CD2	137.79	0.59
1:AQ:102:VAL:HG22	1:AQ:199:SER:CB	2.31	0.59
1:BF:88:PHE:CE2	1:BF:146:ILE:HG21	2.37	0.59
3:DE:14:PHE:O	3:DE:15:MET:HB2	2.01	0.59
3:EE:14:PHE:O	3:EE:15:MET:HB2	2.02	0.59
3:DO:42:ASN:HD22	3:DO:44:ILE:HG22	1.65	0.59
1:A7:209:LEU:O	1:A7:210:ARG:HG2	2.01	0.59
3:D4:14:PHE:O	3:D4:15:MET:HB2	2.02	0.59
3:D6:14:PHE:O	3:D6:15:MET:HB2	2.01	0.59
1:AB:173:GLY:CA	2:CD:188:LEU:O	102.01	0.59
1:AD:173:GLY:CA	2:CF:188:LEU:O	105.64	0.59
1:AD:173:GLY:HA3	2:CD:188:LEU:O	2.03	0.59
2:CH:55:GLY:HA3	2:CR:52:THR:HG23	143.00	0.59
2:C1:55:GLY:HA3	2:CN:52:THR:HG23	1.84	0.59
2:CC:52:THR:HG23	2:CM:55:GLY:HA3	143.00	0.59
1:AX:130:ILE:HD11	1:AX:135:VAL:CG1	2.30	0.59
1:AI:115:THR:HG22	1:AI:131:GLN:OE1	2.02	0.59
1:AW:130:ILE:HD11	1:AW:135:VAL:CG1	2.30	0.59
1:BA:173:GLY:CA	2:CP:188:LEU:O	103.02	0.59
1:AH:115:THR:HG22	1:AH:131:GLN:OE1	2.02	0.59
2:CC:27:GLN:HG3	2:CC:28:GLY:N	2.17	0.59
2:CX:27:GLN:HG3	2:CX:28:GLY:N	2.17	0.59
2:CI:27:GLN:HG3	2:CI:28:GLY:N	2.17	0.59
1:AN:223:PRO:HD3	2:CB:158:PHE:CZ	191.63	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:223:PRO:HD3	2:C7:158:PHE:CZ	2.37	0.59
2:CA:78:ALA:HA	2:CA:196:ILE:O	2.02	0.59
1:A3:223:PRO:HD3	2:C4:158:PHE:CZ	2.37	0.59
2:C7:78:ALA:HA	2:C7:196:ILE:O	2.02	0.59
1:A4:173:GLY:HA3	2:C5:188:LEU:O	2.02	0.59
3:EE:56:ILE:N	3:EE:56:ILE:HD12	2.18	0.59
2:CN:78:ALA:HA	2:CN:196:ILE:O	2.02	0.59
2:C2:54:LEU:HD12	2:C2:220:ALA:CB	2.31	0.59
2:CY:54:LEU:HD12	2:CY:220:ALA:CB	2.31	0.59
1:AR:224:ILE:HG13	3:DR:89:TYR:CE1	2.37	0.59
1:AF:39:ASP:HB2	1:AJ:136:ALA:H	1.67	0.59
2:CQ:176:PRO:O	2:CQ:192:TRP:NE1	2.35	0.59
3:EA:121:LEU:C	3:EA:121:LEU:HD23	2.22	0.59
3:D1:121:LEU:C	3:D1:121:LEU:HD23	2.21	0.59
1:AY:224:ILE:HG13	3:DZ:89:TYR:CE1	2.36	0.59
2:CA:176:PRO:O	2:CA:192:TRP:NE1	2.35	0.59
2:CR:176:PRO:O	2:CR:192:TRP:NE1	2.36	0.59
1:BA:136:ALA:H	1:BB:39:ASP:HB2	1.67	0.59
3:D8:121:LEU:HD23	3:D8:121:LEU:C	2.22	0.59
4:FZ:25:PHE:HD2	4:FZ:26:TYR:CE1	2.19	0.59
1:BE:39:ASP:HB2	1:BI:136:ALA:H	1.67	0.59
2:C3:36:TYR:HE2	2:C3:130:PRO:CG	2.15	0.59
2:CN:176:PRO:O	2:CN:192:TRP:NE1	2.35	0.59
2:C5:176:PRO:O	2:C5:192:TRP:NE1	2.35	0.59
2:CF:36:TYR:HE2	2:CF:130:PRO:CG	2.15	0.59
2:C8:115:ASN:CA	3:D9:119:LYS:HD2	2.31	0.59
2:CW:115:ASN:ND2	3:DJ:189:THR:O	2.35	0.59
2:CM:115:ASN:CA	3:DI:119:LYS:HD2	257.30	0.59
2:CM:115:ASN:ND2	3:DI:189:THR:O	261.92	0.59
2:CT:115:ASN:ND2	3:DK:189:THR:O	2.35	0.59
2:CQ:115:ASN:ND2	3:DY:189:THR:O	116.12	0.59
2:CG:115:ASN:ND2	3:EB:189:THR:O	2.35	0.59
2:C0:110:VAL:HG12	2:C0:215:VAL:HA	1.83	0.59
2:C6:115:ASN:ND2	3:DE:189:THR:O	2.35	0.59
2:C3:115:ASN:ND2	3:DU:189:THR:O	2.35	0.59
2:CF:207:GLN:HE22	3:D6:192:THR:HA	1.65	0.59
1:AJ:19:LEU:HB2	2:CK:48:SER:HB2	237.94	0.59
1:AB:19:LEU:HB2	2:CA:48:SER:HB2	1.82	0.59
1:AB:19:LEU:HB2	2:CC:48:SER:HB2	89.38	0.59
1:AL:19:LEU:HB2	2:CK:48:SER:HB2	1.82	0.59
3:DD:100:TYR:CE1	3:DD:167:MET:HB2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DE:100:TYR:CE1	3:DE:167:MET:HB2	3.15	0.59
3:DF:100:TYR:CE1	3:DF:167:MET:HB2	3.15	0.59
3:DL:100:TYR:CE2	3:DL:167:MET:HB2	2.37	0.59
3:D3:160:TYR:OH	3:D3:167:MET:HG2	2.01	0.59
3:DQ:100:TYR:CE2	3:DQ:167:MET:HB2	3.15	0.59
3:EC:100:TYR:CE2	3:EC:167:MET:HB2	2.37	0.59
3:D4:100:TYR:CE2	3:D4:167:MET:HB2	2.37	0.59
3:DR:100:TYR:CE2	3:DR:167:MET:HB2	2.37	0.59
3:D0:100:TYR:CE1	3:D0:167:MET:HB2	2.37	0.59
1:AM:209:LEU:O	1:AM:210:ARG:HG2	2.01	0.59
1:AV:121:LEU:CD2	1:AW:207:CYS:H	2.12	0.59
1:BD:88:PHE:CE2	1:BD:146:ILE:HG21	2.37	0.59
1:A4:88:PHE:CE2	1:A4:146:ILE:HG21	2.37	0.59
1:A0:102:VAL:HG22	1:A0:199:SER:CB	2.31	0.59
1:A7:187:LEU:CD2	1:A7:188:PRO:HD2	2.25	0.59
1:AO:173:GLY:HA3	2:CO:188:LEU:O	2.02	0.59
1:AC:173:GLY:HA3	2:CE:188:LEU:O	101.53	0.59
1:AO:173:GLY:HA3	2:CS:188:LEU:O	100.61	0.59
1:AH:173:GLY:HA3	2:CH:188:LEU:O	2.03	0.59
1:AL:173:GLY:HA3	2:CL:188:LEU:O	2.02	0.59
1:AP:115:THR:HG22	1:AP:131:GLN:OE1	2.02	0.59
2:C9:55:GLY:HA3	2:CK:52:THR:HG23	77.81	0.59
1:BI:115:THR:HG22	1:BI:131:GLN:OE1	2.02	0.59
2:C9:52:THR:HG23	2:CK:55:GLY:HA3	73.95	0.59
1:A5:130:ILE:HD11	1:A5:135:VAL:CG1	2.30	0.59
1:BB:115:THR:HG22	1:BB:131:GLN:OE1	2.02	0.59
2:C3:55:GLY:HA3	2:CY:52:THR:HG23	1.84	0.59
2:CK:27:GLN:HG3	2:CK:28:GLY:N	2.17	0.59
2:C0:27:GLN:HG3	2:C0:28:GLY:N	2.17	0.59
2:CU:27:GLN:HG3	2:CU:28:GLY:N	2.17	0.59
1:AE:223:PRO:HD3	2:CG:158:PHE:CZ	119.92	0.59
1:AF:223:PRO:HD3	2:CF:158:PHE:CZ	2.37	0.59
2:C3:78:ALA:HA	2:C3:196:ILE:O	2.02	0.59
1:A8:173:GLY:HA3	2:C9:188:LEU:O	2.03	0.59
1:A2:173:GLY:CA	2:C3:188:LEU:O	2.50	0.59
3:DE:56:ILE:N	3:DE:56:ILE:HD12	2.18	0.59
3:DO:56:ILE:HD12	3:DO:56:ILE:N	2.18	0.59
1:AK:86:ILE:CD1	1:AK:86:ILE:N	2.65	0.59
1:BH:86:ILE:N	1:BH:86:ILE:CD1	2.65	0.59
1:AZ:173:GLY:HA3	2:C0:188:LEU:O	2.03	0.59
2:CI:78:ALA:HA	2:CI:196:ILE:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:173:GLY:CA	2:CZ:188:LEU:O	2.50	0.59
3:DB:56:ILE:N	3:DB:56:ILE:HD12	2.18	0.59
2:CU:54:LEU:HD12	2:CU:220:ALA:CB	2.31	0.59
1:AC:224:ILE:HG13	3:DE:89:TYR:CE1	84.99	0.59
1:AJ:136:ALA:H	1:AK:39:ASP:HB2	274.28	0.59
2:CP:36:TYR:HE2	2:CP:130:PRO:CG	2.15	0.59
1:AI:136:ALA:H	1:AJ:39:ASP:HB2	1.67	0.59
1:AX:224:ILE:HG13	3:DY:89:TYR:CE1	2.37	0.59
1:A4:5:GLY:O	1:A4:6:GLU:HB3	2.01	0.59
2:CJ:176:PRO:O	2:CJ:192:TRP:NE1	2.35	0.59
2:CB:36:TYR:HE2	2:CB:130:PRO:CG	2.15	0.59
1:AL:136:ALA:H	1:AM:39:ASP:HB2	1.67	0.59
2:C2:176:PRO:O	2:C2:192:TRP:NE1	2.35	0.59
2:CL:176:PRO:O	2:CL:192:TRP:NE1	2.36	0.59
2:CE:36:TYR:HE2	2:CE:130:PRO:CG	2.15	0.59
2:C4:36:TYR:HE2	2:C4:130:PRO:CG	2.15	0.59
2:CG:176:PRO:O	2:CG:192:TRP:NE1	2.35	0.59
1:AQ:136:ALA:H	1:AR:39:ASP:HB2	1.67	0.59
1:A2:136:ALA:H	1:AY:39:ASP:HB2	1.67	0.59
2:CR:207:GLN:HE22	3:EE:192:THR:HA	1.65	0.59
2:CT:115:ASN:ND2	3:DH:189:THR:O	231.27	0.59
2:CD:115:ASN:CA	3:D4:119:LYS:HD2	148.90	0.59
2:CX:115:ASN:ND2	3:DR:189:THR:O	155.59	0.59
2:C9:115:ASN:ND2	3:DL:189:THR:O	94.36	0.59
2:CN:115:ASN:ND2	3:D2:189:THR:O	2.35	0.59
2:CY:115:ASN:ND2	3:DZ:189:THR:O	2.35	0.59
2:CB:115:ASN:ND2	3:DF:189:THR:O	149.00	0.59
2:CP:115:ASN:ND2	3:D1:189:THR:O	2.35	0.59
3:DA:100:TYR:CE2	3:DA:167:MET:HB2	2.37	0.59
3:DU:100:TYR:CE1	3:DU:167:MET:HB2	2.37	0.59
1:A0:19:LEU:HB2	2:C0:48:SER:HB2	1.83	0.59
1:AE:121:LEU:CD2	1:AF:207:CYS:H	132.98	0.59
1:AI:209:LEU:CD1	1:AI:210:ARG:H	2.15	0.59
1:AM:209:LEU:CD1	1:AM:210:ARG:H	2.15	0.59
1:AR:209:LEU:O	1:AR:210:ARG:HG2	2.01	0.59
1:AT:209:LEU:CD1	1:AT:210:ARG:H	2.15	0.59
1:BA:209:LEU:CD1	1:BA:210:ARG:H	2.15	0.59
1:BF:102:VAL:HG22	1:BF:199:SER:CB	2.30	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	2.02	0.59
3:EC:14:PHE:O	3:EC:15:MET:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:42:ASN:HD22	3:DA:44:ILE:HG22	1.65	0.59
1:A5:209:LEU:O	1:A5:210:ARG:HG2	2.01	0.59
1:AZ:88:PHE:CE2	1:AZ:146:ILE:HG21	2.37	0.59
1:AI:173:GLY:CA	2:CK:188:LEU:O	272.15	0.59
1:AH:173:GLY:CA	2:CH:188:LEU:O	2.50	0.59
2:CR:52:THR:HG23	2:CW:55:GLY:HA3	200.25	0.59
1:AW:173:GLY:CA	2:CX:188:LEU:O	2.50	0.59
1:A6:130:ILE:HD11	1:A6:135:VAL:CG1	2.30	0.59
1:BH:115:THR:HG22	1:BH:131:GLN:OE1	2.02	0.59
1:A7:115:THR:HG22	1:A7:131:GLN:OE1	2.02	0.59
2:CP:27:GLN:HG3	2:CP:28:GLY:N	2.17	0.59
2:CN:27:GLN:HG3	2:CN:28:GLY:N	2.17	0.59
2:CY:27:GLN:HG3	2:CY:28:GLY:N	2.17	0.59
1:AA:223:PRO:HD3	2:CA:158:PHE:CZ	2.37	0.59
1:AC:223:PRO:HD3	2:CE:158:PHE:CZ	93.44	0.59
1:AF:223:PRO:HD3	2:CH:158:PHE:CZ	93.44	0.59
1:AS:173:GLY:CA	2:CT:188:LEU:O	2.50	0.59
1:AS:173:GLY:HA3	2:CT:188:LEU:O	2.03	0.59
1:BB:173:GLY:CA	2:CQ:188:LEU:O	131.15	0.59
3:DG:56:ILE:N	3:DG:56:ILE:HD12	2.18	0.59
3:EC:56:ILE:HD12	3:EC:56:ILE:N	2.17	0.59
3:D4:56:ILE:N	3:D4:56:ILE:HD12	2.18	0.59
3:DR:56:ILE:N	3:DR:56:ILE:HD12	2.18	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:DW:56:ILE:N	3:DW:56:ILE:HD12	2.17	0.59
1:AR:173:GLY:HA3	2:CR:188:LEU:O	2.02	0.59
1:A9:86:ILE:N	1:A9:86:ILE:CD1	2.65	0.59
1:BD:86:ILE:N	1:BD:86:ILE:CD1	2.65	0.59
2:CU:103:LEU:CD2	3:EC:163:PRO:HD3	242.47	0.59
1:AW:5:GLY:O	1:AW:6:GLU:HB3	2.01	0.59
2:CU:36:TYR:HE2	2:CU:130:PRO:CG	2.15	0.59
2:CB:176:PRO:O	2:CB:192:TRP:NE1	2.36	0.59
2:CO:176:PRO:O	2:CO:192:TRP:NE1	2.35	0.59
1:A3:136:ALA:H	1:A4:39:ASP:HB2	1.67	0.59
2:C5:36:TYR:HE2	2:C5:130:PRO:CG	2.15	0.59
2:CW:115:ASN:CA	3:DJ:119:LYS:HD2	2.31	0.59
2:CC:115:ASN:ND2	3:DN:189:THR:O	160.99	0.59
2:CK:115:ASN:ND2	3:DA:189:THR:O	275.00	0.59
2:CU:110:VAL:HG12	2:CU:215:VAL:HA	1.83	0.59
2:CO:115:ASN:ND2	3:DP:189:THR:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:19:LEU:HB2	2:CI:48:SER:HB2	1.82	0.59
1:AI:19:LEU:HB2	2:CJ:48:SER:HB2	89.39	0.59
3:D9:100:TYR:CE2	3:D9:167:MET:HB2	2.37	0.59
3:DK:100:TYR:CE2	3:DK:167:MET:HB2	3.15	0.59
3:DQ:100:TYR:CE1	3:DQ:167:MET:HB2	2.37	0.59
3:DV:100:TYR:CE1	3:DV:167:MET:HB2	2.37	0.59
1:A6:19:LEU:HB2	2:C6:48:SER:HB2	1.82	0.59
1:A8:209:LEU:O	1:A8:210:ARG:HG2	2.01	0.59
1:A8:88:PHE:CE1	1:A8:205:GLY:CA	2.81	0.59
1:AO:40:VAL:O	1:AO:41:GLU:HB2	2.03	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
3:DV:14:PHE:O	3:DV:15:MET:HB2	2.02	0.59
3:EC:42:ASN:HD22	3:EC:44:ILE:HG22	1.65	0.59
1:A5:88:PHE:CE2	1:A5:146:ILE:HG21	2.37	0.59
1:A0:209:LEU:CD1	1:A0:210:ARG:H	2.15	0.59
1:AY:88:PHE:CE2	1:AY:146:ILE:HG21	2.37	0.59
1:AU:173:GLY:CA	2:CV:188:LEU:O	2.50	0.59
1:BG:173:GLY:CA	2:CV:188:LEU:O	257.00	0.59
1:AA:173:GLY:HA3	2:CC:188:LEU:O	101.53	0.59
1:AD:173:GLY:HA3	2:CF:188:LEU:O	104.91	0.59
1:AH:173:GLY:HA3	2:CJ:188:LEU:O	101.53	0.59
1:AL:173:GLY:HA3	2:CN:188:LEU:O	101.53	0.59
1:AD:115:THR:HG22	1:AD:131:GLN:OE1	2.02	0.59
1:AW:173:GLY:HA3	2:CX:188:LEU:O	2.03	0.59
1:AO:115:THR:HG22	1:AO:131:GLN:OE1	2.02	0.59
1:AR:115:THR:HG22	1:AR:131:GLN:OE1	2.02	0.59
2:CB:55:GLY:HA3	2:CS:52:THR:HG23	231.70	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	122.47	0.59
2:CG:52:THR:HG23	2:CT:55:GLY:HA3	211.37	0.59
2:CO:52:THR:HG23	2:CQ:55:GLY:HA3	124.52	0.59
1:A5:115:THR:HG22	1:A5:131:GLN:OE1	2.02	0.59
2:C0:55:GLY:HA3	2:CP:52:THR:HG23	1.84	0.59
1:AV:115:THR:HG22	1:AV: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
2:C9:27:GLN:HG3	2:C9:28:GLY:N	2.17	0.59
2:C8:15:GLU:HG3	2:C8:29:SER:CB	2.30	0.59
2:CQ:27:GLN:HG3	2:CQ:28:GLY:N	2.17	0.59
2:C7:15:GLU:HG3	2:C7:29:SER:CB	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:223:PRO:HD3	2:CK:158:PHE:CZ	2.37	0.59
1:AL:223:PRO:HD3	2:CN:158:PHE:CZ	93.44	0.59
1:AL:223:PRO:HD3	2:CL:158:PHE:CZ	2.37	0.59
1:AP:223:PRO:HD3	2:CP:158:PHE:CZ	2.37	0.59
1:A5:173:GLY:CA	2:C6:188:LEU:O	2.50	0.59
3:DS:56:ILE:N	3:DS:56:ILE:HD12	2.18	0.59
1:AZ:173:GLY:CA	2:C0:188:LEU:O	2.50	0.59
3:DI:56:ILE:HD12	3:DI:56:ILE:N	2.17	0.59
1:AY:173:GLY:HA3	2:CZ:188:LEU:O	2.03	0.59
2:CO:103:LEU:CD2	3:DP:163:PRO:HD3	36.87	0.59
1:AA:39:ASP:HB2	1:AE:136:ALA:H	1.67	0.59
1:AK:39:ASP:HB2	1:AO:136:ALA:H	1.67	0.59
2:CH:36:TYR:HE2	2:CH:130:PRO:CG	2.15	0.59
2:CH:176:PRO:O	2:CH:192:TRP:NE1	2.35	0.59
2:CD:36:TYR:HE2	2:CD:130:PRO:CG	2.15	0.59
1:AT:136:ALA:H	1:AU:39:ASP:HB2	1.67	0.59
1:A0:5:GLY:O	1:A0:6:GLU:HB3	2.01	0.59
2:CS:176:PRO:O	2:CS:192:TRP:NE1	2.36	0.59
1:AM:136:ALA:H	1:BA:39:ASP:HB2	214.90	0.59
1:A2:5:GLY:O	1:A2:6:GLU:HB3	2.01	0.59
1:AA:136:ALA:H	1:AB:39:ASP:HB2	1.67	0.59
3:DL:94:SER:HB3	3:DL:169:VAL:HG13	1.85	0.59
2:CC:36:TYR:HE2	2:CC:130:PRO:CG	2.15	0.59
3:DH:80:LEU:N	3:DH:80:LEU:HD12	2.18	0.59
2:CT:36:TYR:HE2	2:CT:130:PRO:CG	2.15	0.59
3:DP:94:SER:HB3	3:DP:169:VAL:HG13	1.85	0.59
2:CC:115:ASN:C	3:ED:119:LYS:HZ3	250.46	0.59
2:CJ:115:ASN:ND2	3:DA:189:THR:O	2.35	0.59
2:CR:115:ASN:CA	3:EE:119:LYS:HD2	2.31	0.59
2:CK:115:ASN:ND2	3:DB:189:THR:O	262.00	0.59
2:CO:110:VAL:HG12	2:CO:215:VAL:HA	1.83	0.59
2:C1:115:ASN:CA	3:DO:119:LYS:HD2	2.31	0.59
2:CF:115:ASN:ND2	3:DV:189:THR:O	185.70	0.59
3:DC:100:TYR:CE1	3:DC:167:MET:HB2	2.37	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:DG:100:TYR:CE1	3:DG:167:MET:HB2	3.15	0.59
3:EE:100:TYR:CE2	3:EE:167:MET:HB2	2.37	0.59
3:D7:100:TYR:CE2	3:D7:167:MET:HB2	2.37	0.59
3:D6:100:TYR:CE1	3:D6:167:MET:HB2	2.37	0.59
1:AB:209:LEU:CD1	1:AB:210:ARG:H	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:40:VAL:O	1:AE:41:GLU:HB2	2.03	0.59
1:AJ:209:LEU:CD1	1:AJ:210:ARG:H	2.15	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:AO:121:LEU:CD2	1:AS:207:CYS:H	121.19	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
3:DG:14:PHE:O	3:DG:15:MET:HB2	2.02	0.59
3:DR:14:PHE:O	3:DR:15:MET:HB2	2.02	0.59
3:DX:42:ASN:HD22	3:DX:44:ILE:H	1.46	0.59
1:A4:40:VAL:O	1:A4:41:GLU:HB2	2.03	0.59
1:A1:209:LEU:CD1	1:A1:210:ARG:H	2.15	0.59
3:DZ:14:PHE:O	3:DZ:15:MET:HB2	2.02	0.59
1:A9:173:GLY:HA3	2:CA:188:LEU:O	255.14	0.59
1:AC:173:GLY:CA	2:CC:188:LEU:O	2.50	0.59
1:AI:173:GLY:HA3	2:CK:188:LEU:O	271.33	0.59
1:AB:173:GLY:HA3	2:CD:188:LEU:O	101.53	0.59
1:AB:173:GLY:HA3	2:CB:188:LEU:O	2.02	0.59
1:AF:173:GLY:HA3	2:CH:188:LEU:O	101.53	0.59
1:AB:115:THR:HG22	1:AB:131:GLN:OE1	2.02	0.59
2:CA:55:GLY:HA3	2:CV:52:THR:HG23	1.84	0.59
2:C6:55:GLY:HA3	2:CD:52:THR:HG23	1.84	0.59
2:CH:52:THR:HG23	2:CR:55:GLY:HA3	143.00	0.59
2:CQ:73:GLN:NE2	2:CQ:73:GLN:HA	2.17	0.59
2:C4:27:GLN:HG3	2:C4:28:GLY:N	2.17	0.59
2:CO:27:GLN:HG3	2:CO:28:GLY:N	2.17	0.59
2:C2:27:GLN:HG3	2:C2:28:GLY:N	2.17	0.59
1:AK:223:PRO:HD3	2:CM:158:PHE:CZ	93.44	0.59
1:AD:223:PRO:HD3	2:CD:158:PHE:CZ	2.37	0.59
1:BC:223:PRO:HD3	2:CR:158:PHE:CZ	148.99	0.59
1:BH:173:GLY:HA3	2:CW:188:LEU:O	226.42	0.59
1:A4:223:PRO:HD3	2:C5:158:PHE:CZ	2.37	0.59
3:D8:56:ILE:HD12	3:D8:56:ILE:N	2.18	0.59
1:A4:173:GLY:CA	2:C5:188:LEU:O	2.50	0.59
3:DC:56:ILE:N	3:DC:56:ILE:HD12	2.17	0.59
1:AT:173:GLY:CA	2:CU:188:LEU:O	2.50	0.59
3:DQ:56:ILE:N	3:DQ:56:ILE:HD12	2.18	0.59
3:DD:56:ILE:HD12	3:DD:56:ILE:N	2.17	0.59
1:A2:86:ILE:N	1:A2:86:ILE:CD1	2.65	0.59
1:AH:224:ILE:HG13	3:DH:89:TYR:CE1	2.37	0.59
1:AJ:224:ILE:HG13	3:DJ:89:TYR:CE1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:136:ALA:H	1:AC:39:ASP:HB2	1.67	0.59
1:AG:136:ALA:H	1:AH:39:ASP:HB2	1.67	0.59
3:DU:121:LEU:HD23	3:DU:121:LEU:C	2.22	0.59
2:C2:36:TYR:HE2	2:C2:130:PRO:CG	2.15	0.59
2:C7:36:TYR:HE2	2:C7:130:PRO:CG	2.15	0.59
1:AK:136:ALA:H	1:AL:39:ASP:HB2	1.67	0.59
2:CT:176:PRO:O	2:CT:192:TRP:NE1	2.35	0.59
3:D1:94:SER:HB3	3:D1:169:VAL:HG13	1.85	0.59
3:DX:94:SER:HB3	3:DX:169:VAL:HG13	1.85	0.59
1:A4:136:ALA:H	1:A5:39:ASP:HB2	1.67	0.59
3:DB:80:LEU:N	3:DB:80:LEU:HD12	2.18	0.59
3:DW:80:LEU:HD12	3:DW:80:LEU:N	2.18	0.59
3:D4:80:LEU:HD12	3:D4:80:LEU:N	2.18	0.59
2:CW:176:PRO:O	2:CW:192:TRP:NE1	2.36	0.59
2:CX:176:PRO:O	2:CX:192:TRP:NE1	2.35	0.59
2:CH:115:ASN:ND2	3:DS:189:THR:O	160.99	0.59
2:C7:115:ASN:ND2	3:DM:189:THR:O	155.59	0.59
2:CR:115:ASN:C	3:EE:119:LYS:HZ3	2.06	0.59
2:CD:115:ASN:ND2	3:D7:189:THR:O	2.35	0.59
2:CQ:115:ASN:ND2	3:DP:189:THR:O	113.95	0.59
2:CS:115:ASN:ND2	3:DC:189:THR:O	261.91	0.59
2:CB:115:ASN:ND2	3:DT:189:THR:O	261.92	0.59
2:CF:115:ASN:ND2	3:D6:189:THR:O	2.35	0.59
3:DB:100:TYR:CE2	3:DB:167:MET:HB2	2.38	0.59
3:DJ:100:TYR:CE1	3:DJ:167:MET:HB2	2.37	0.59
3:DP:100:TYR:CE2	3:DP:167:MET:HB2	3.15	0.59
3:D3:100:TYR:CE2	3:D3:167:MET:HB2	2.37	0.59
1:AX:88:PHE:CE2	1:AX:146:ILE:HG21	2.37	0.59
1:BB:209:LEU:O	1:BB:210:ARG:HG2	2.01	0.59
3:DD:14:PHE:O	3:DD:15:MET:HB2	2.02	0.59
3:EA:14:PHE:O	3:EA:15:MET:HB2	2.02	0.59
1:BH:209:LEU:CD1	1:BH:210:ARG:H	2.15	0.59
1:A2:209:LEU:CD1	1:A2:210:ARG:H	2.15	0.59
1:A6:209:LEU:O	1:A6:210:ARG:HG2	2.01	0.59
1:AC:173:GLY:HA3	2:CC:188:LEU:O	2.03	0.59
1:AK:173:GLY:CA	2:CM:188:LEU:O	102.01	0.59
1:AN:173:GLY:HA3	2:CB:188:LEU:O	201.53	0.59
1:AL:173:GLY:CA	2:CN:188:LEU:O	102.01	0.59
2:CI:52:THR:HG23	2:CN:55:GLY:HA3	211.11	0.59
2:CC:55:GLY:HA3	2:CV:52:THR:HG23	124.52	0.59
1:AP:173:GLY:HA3	2:CP:188:LEU:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:115:THR:HG22	1:A4:131:GLN:OE1	2.02	0.59
2:C6:27:GLN:HG3	2:C6:28:GLY:N	2.17	0.59
1:AI:30:VAL:HG13	1:AI:218:MET:HE2	1.85	0.59
1:AM:223:PRO:HD3	2:CO:158:PHE:CZ	93.44	0.59
1:BF:223:PRO:HD3	2:CU:158:PHE:CZ	241.72	0.59
1:A8:173:GLY:CA	2:C9:188:LEU:O	2.50	0.59
3:D7:56:ILE:N	3:D7:56:ILE:HD12	2.18	0.59
2:C0:78:ALA:HA	2:C0:196:ILE:O	2.02	0.59
3:DN:56:ILE:HD12	3:DN:56:ILE:N	2.17	0.59
3:DL:56:ILE:HD12	3:DL:56:ILE:N	2.18	0.59
1:AR:5:GLY:O	1:AR:6:GLU:HB3	2.02	0.59
1:AA:224:ILE:HG13	3:DC:89:TYR:CE1	84.99	0.59
1:AM:39:ASP:HB2	1:BD:136:ALA:H	241.86	0.59
2:CZ:176:PRO:O	2:CZ:192:TRP:NE1	2.36	0.59
3:D8:94:SER:HB3	3:D8:169:VAL:HG13	1.85	0.59
2:CE:176:PRO:O	2:CE:192:TRP:NE1	2.36	0.59
2:C6:36:TYR:HE2	2:C6:130:PRO:CG	2.15	0.59
3:D2:94:SER:HB3	3:D2:169:VAL:HG13	1.85	0.59
3:DZ:80:LEU:N	3:DZ:80:LEU:HD12	2.18	0.59
3:D0:80:LEU:HD12	3:D0:80:LEU:N	2.18	0.59
3:DT:80:LEU:N	3:DT:80:LEU:HD12	2.18	0.59
3:D1:80:LEU:HD12	3:D1:80:LEU:N	2.18	0.59
3:DF:80:LEU:N	3:DF:80:LEU:HD12	2.18	0.59
1:AF:136:ALA:H	1:AG:39:ASP:HB2	1.67	0.59
4:F0:25:PHE:HD2	4:F0:26:TYR:CE1	2.19	0.59
3:D4:94:SER:HB3	3:D4:169:VAL:HG13	1.85	0.59
1:AH:136:ALA:H	1:AI:39:ASP:HB2	1.67	0.59
2:CO:115:ASN:ND2	3:DR:189:THR:O	145.48	0.59
2:C4:110:VAL:HG12	2:C4:215:VAL:HA	1.83	0.59
3:DK:100:TYR:CE1	3:DK:167:MET:HB2	2.37	0.59
3:DP:100:TYR:CE1	3:DP:167:MET:HB2	2.37	0.59
3:DZ:100:TYR:CE2	3:DZ:167:MET:HB2	2.37	0.59
3:D1:100:TYR:CE1	3:D1:167:MET:HB2	2.37	0.59
1:A9:209:LEU:CD1	1:A9:210:ARG:H	2.15	0.59
1:AB:40:VAL:O	1:AB:41:GLU:HB2	2.03	0.59
1:AF:40:VAL:O	1:AF:41:GLU:HB2	2.03	0.59
1:AJ:40:VAL:O	1:AJ:41:GLU:HB2	2.03	0.59
1:BC:209:LEU:O	1:BC:210:ARG:HG2	2.01	0.59
1:BG:209:LEU:CD1	1:BG:210:ARG:H	2.15	0.59
1:BI:209:LEU:CD1	1:BI:210:ARG:H	2.15	0.59
3:DX:42:ASN:HD22	3:DX:44:ILE:HG22	1.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:112:PRO:HG3	3:DD:223:PRO:HD3	72.24	0.59
1:AZ:209:LEU:CD1	1:AZ:210:ARG:H	2.15	0.59
1:AZ:40:VAL:O	1:AZ:41:GLU:HB2	2.03	0.59
1:A9:173:GLY:CA	2:CA:188:LEU:O	255.77	0.59
1:AK:173:GLY:HA3	2:CM:188:LEU:O	101.53	0.59
1:AM:173:GLY:CA	2:CM:188:LEU:O	2.50	0.59
1:BD:115:THR:HG22	1:BD:131:GLN:OE1	2.02	0.59
2:CH:55:GLY:HA3	2:CM:52:THR:HG23	231.70	0.59
2:C1:52:THR:HG23	2:CN:55:GLY:HA3	1.84	0.59
1:BI:173:GLY:HA3	2:CX:188:LEU:O	168.58	0.59
2:C2:52:THR:HG23	2:CG:55:GLY:HA3	231.37	0.59
1:A1:115:THR:HG22	1:A1:131:GLN:OE1	2.02	0.59
2:CA:52:THR:HG23	2:CK:55:GLY:HA3	231.37	0.59
1:A8:115:THR:HG22	1:A8:131:GLN:OE1	2.02	0.59
1:BA:173:GLY:HA3	2:CP:188:LEU:O	103.05	0.59
2:CA:27:GLN:HG3	2:CA:28:GLY:N	2.17	0.59
2:CS:15:GLU:HG3	2:CS:29:SER:CB	2.30	0.59
1:AJ:223:PRO:HD3	2:CJ:158:PHE:CZ	2.37	0.59
3:DA:56:ILE:HD12	3:DA:56:ILE:N	2.17	0.59
3:EB:56:ILE:HD12	3:EB:56:ILE:N	2.17	0.59
1:A8:223:PRO:HD3	2:C9:158:PHE:CZ	2.37	0.59
1:A2:223:PRO:HD3	2:C3:158:PHE:CZ	2.37	0.59
3:DJ:56:ILE:HD12	3:DJ:56:ILE:N	2.18	0.59
1:AR:173:GLY:CA	2:CR:188:LEU:O	2.50	0.59
1:BF:86:ILE:CD1	1:BF:86:ILE:N	2.65	0.59
1:AM:86:ILE:CD1	1:AM:86:ILE:N	2.65	0.59
1:BC:86:ILE:N	1:BC:86:ILE:CD1	2.65	0.59
1:BG:5:GLY:O	1:BG:6:GLU:HB3	2.01	0.59
2:CV:36:TYR:HE2	2:CV:130:PRO:CG	2.15	0.59
3:EA:94:SER:HB3	3:EA:169:VAL:HG13	1.85	0.59
2:CN:35:CYS:O	2:CN:36:TYR:HB2	2.03	0.59
2:C9:176:PRO:O	2:C9:192:TRP:NE1	2.36	0.59
2:CS:35:CYS:O	2:CS:36:TYR:HB2	2.03	0.59
2:CK:36:TYR:HE2	2:CK:130:PRO:CG	2.15	0.59
2:CM:176:PRO:O	2:CM:192:TRP:NE1	2.35	0.59
2:CL:36:TYR:HE2	2:CL:130:PRO:CG	2.15	0.59
3:DD:94:SER:HB3	3:DD:169:VAL:HG13	1.85	0.59
2:C3:176:PRO:O	2:C3:192:TRP:NE1	2.35	0.59
3:DI:80:LEU:N	3:DI:80:LEU:HD12	2.18	0.59
3:DR:80:LEU:N	3:DR:80:LEU:HD12	2.18	0.59
1:AX:5:GLY:O	1:AX:6:GLU:HB3	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:80:LEU:HD12	3:DA:80:LEU:N	2.18	0.59
3:DJ:80:LEU:HD12	3:DJ:80:LEU:N	2.18	0.59
3:DK:80:LEU:N	3:DK:80:LEU:HD12	2.18	0.59
3:EA:80:LEU:HD12	3:EA:80:LEU:N	2.18	0.59
3:DM:80:LEU:HD12	3:DM:80:LEU:N	2.18	0.59
3:DP:80:LEU:N	3:DP:80:LEU:HD12	2.18	0.59
1:A5:5:GLY:O	1:A5:6:GLU:HB3	2.02	0.59
2:CX:35:CYS:O	2:CX:36:TYR:HB2	2.03	0.59
1:BG:136:ALA:H	1:BH:39:ASP:HB2	1.67	0.59
2:CH:115:ASN:CA	3:DN:119:LYS:HD2	257.30	0.59
2:CI:115:ASN:ND2	3:DJ:189:THR:O	63.89	0.59
2:CH:115:ASN:ND2	3:DN:189:THR:O	261.91	0.59
2:C7:115:ASN:HA	3:DM:119:LYS:CE	153.43	0.59
2:CR:110:VAL:HG12	2:CR:215:VAL:HA	1.83	0.59
2:C2:115:ASN:C	3:DH:119:LYS:HZ2	257.56	0.59
2:CL:115:ASN:ND2	3:DK:189:THR:O	113.95	0.59
2:CA:115:ASN:ND2	3:DW:189:THR:O	2.35	0.59
2:CE:115:ASN:ND2	3:DC:189:THR:O	153.38	0.59
3:DJ:100:TYR:CE2	3:DJ:167:MET:HB2	3.15	0.59
3:EA:100:TYR:CE1	3:EA:167:MET:HB2	2.37	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:AH:88:PHE:CE2	1:AH:146:ILE:HG21	2.37	0.59
1:AQ:88:PHE:CE2	1:AQ:146:ILE:HG21	2.37	0.59
1:AR:102:VAL:HG22	1:AR:199:SER:CB	2.30	0.59
1:AW:88:PHE:CE2	1:AW:146:ILE:HG21	2.37	0.59
1:BA:40:VAL:O	1:BA:41:GLU:HB2	2.03	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:BG:209:LEU:O	1:BG:210:ARG:HG2	2.01	0.59
3:DH:17:SER:O	3:DH:19:PRO:HD3	2.03	0.59
3:DU:14:PHE:O	3:DU:15:MET:HB2	2.02	0.59
1:AC:112:PRO:HG3	3:DD:223:PRO:HD3	1.85	0.59
1:AY:209:LEU:CD1	1:AY:210:ARG:H	2.15	0.59
1:AY:40:VAL:O	1:AY:41:GLU:HB2	2.03	0.59
1:BH:112:PRO:HG3	3:EE:223:PRO:HD3	1.85	0.59
1:AE:173:GLY:HA3	2:CG:188:LEU:O	133.73	0.59
1:AK:173:GLY:CA	2:CK:188:LEU:O	2.50	0.59
1:AJ:173:GLY:HA3	2:CJ:188:LEU:O	2.02	0.59
1:AJ:173:GLY:HA3	2:CL:188:LEU:O	253.99	0.59
1:AG:115:THR:HG22	1:AG:131:GLN:OE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:55:GLY:HA3	2:CU:52:THR:HG23	231.37	0.59
1:AJ:115:THR:HG22	1:AJ:131:GLN:OE1	2.02	0.59
2:CP:55:GLY:HA3	2:CZ:52:THR:HG23	73.95	0.59
1:BC:115:THR:HG22	1:BC:131:GLN:OE1	2.02	0.59
2:CR:27:GLN:HG3	2:CR:28:GLY:N	2.17	0.59
1:AO:223:PRO:HD3	2:CO:158:PHE:CZ	2.37	0.59
1:BD:223:PRO:HD3	2:CS:158:PHE:CZ	155.50	0.59
1:AQ:173:GLY:CA	2:CQ:188:LEU:O	2.50	0.59
1:A5:173:GLY:HA3	2:C6:188:LEU:O	2.02	0.59
1:AL:224:ILE:HG13	3:DN:89:TYR:CE1	84.99	0.59
1:BB:5:GLY:O	1:BB:6:GLU:HB3	2.02	0.59
2:CD:35:CYS:O	2:CD:36:TYR:HB2	2.03	0.59
2:CC:35:CYS:O	2:CC:36:TYR:HB2	2.03	0.59
2:CS:36:TYR:HE2	2:CS:130:PRO:CG	2.15	0.59
2:CL:35:CYS:O	2:CL:36:TYR:HB2	2.03	0.59
1:BE:224:ILE:HG13	3:EA:89:TYR:CE1	2.37	0.59
2:CI:35:CYS:O	2:CI:36:TYR:HB2	2.03	0.59
3:DJ:94:SER:HB3	3:DJ:169:VAL:HG13	1.85	0.59
1:AB:178:THR:O	1:AB:180:GLU:N	2.36	0.59
2:CG:36:TYR:HE2	2:CG:130:PRO:CG	2.15	0.59
2:C0:36:TYR:HE2	2:C0:130:PRO:CG	2.15	0.59
2:C8:35:CYS:O	2:C8:36:TYR:HB2	2.03	0.59
1:A3:5:GLY:O	1:A3:6:GLU:HB3	2.01	0.59
2:CZ:36:TYR:HE2	2:CZ:130:PRO:CG	2.15	0.59
3:EE:80:LEU:HD12	3:EE:80:LEU:N	2.18	0.59
3:D2:121:LEU:HD23	3:D2:121:LEU:C	2.22	0.59
1:AV:136:ALA:H	1:AW:39:ASP:HB2	1.67	0.59
2:CO:36:TYR:HE2	2:CO:130:PRO:CG	2.15	0.59
2:CM:115:ASN:ND2	3:DD:189:THR:O	160.99	0.59
2:CT:115:ASN:HA	3:DK:119:LYS:CE	2.33	0.59
2:CU:115:ASN:ND2	3:DG:189:THR:O	249.53	0.59
2:CD:115:ASN:ND2	3:D4:189:THR:O	145.48	0.59
2:CX:115:ASN:HA	3:DO:119:LYS:CE	213.19	0.59
2:CA:115:ASN:OD1	3:DW:119:LYS:HD2	2.03	0.59
2:CN:115:ASN:ND2	3:DE:189:THR:O	260.47	0.59
2:CP:115:ASN:CA	3:D0:119:LYS:HD2	91.95	0.59
1:AN:19:LEU:HB2	2:CM:48:SER:HB2	1.83	0.59
1:AA:40:VAL:O	1:AA:41:GLU:HB2	2.03	0.59
1:AI:40:VAL:O	1:AI:41:GLU:HB2	2.03	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	216.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:156:PHE:CD2	3:DO:25:LEU:HD12	2.38	0.59
1:AP:40:VAL:O	1:AP:41:GLU:HB2	2.03	0.59
1:BA:88:PHE:CE2	1:BA:146:ILE:HG21	2.37	0.59
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
3:DF:17:SER:O	3:DF:19:PRO:HD3	2.03	0.59
3:DG:17:SER:O	3:DG:19:PRO:HD3	2.03	0.59
1:AG:156:PHE:CD2	3:DI:25:LEU:HD12	38.39	0.59
1:AS:156:PHE:CD2	3:DT:25:LEU:HD12	2.38	0.59
3:DW:17:SER:O	3:DW:19:PRO:HD3	2.03	0.59
3:EE:17:SER:O	3:EE:19:PRO:HD3	2.03	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
1:A9:112:PRO:HG3	3:DB:223:PRO:HD3	257.71	0.59
1:AG:112:PRO:HG3	3:DE:223:PRO:HD3	154.35	0.59
1:AQ:112:PRO:HG3	3:DR:223:PRO:HD3	1.85	0.59
1:A1:156:PHE:CD2	3:D2:25:LEU:HD12	2.38	0.59
1:BG:187:LEU:CD2	1:BG:188:PRO:HD2	2.25	0.59
1:BG:173:GLY:HA3	2:CV:188:LEU:O	256.32	0.59
2:CC:55:GLY:HA3	2:CM:52:THR:HG23	143.00	0.59
2:C8:55:GLY:HA3	2:CD:52:THR:HG23	124.52	0.59
2:CR:55:GLY:HA3	2:CW:52:THR:HG23	194.06	0.59
3:D4:53:PHE:CE2	3:D4:205:LEU:HB3	2.31	0.59
2:CJ:27:GLN:HG3	2:CJ:28:GLY:N	2.17	0.59
2:C3:27:GLN:HG3	2:C3:28:GLY:N	2.17	0.59
1:BE:223:PRO:HD3	2:CT:158:PHE:CZ	188.41	0.59
1:AW:223:PRO:HD3	2:CX:158:PHE:CZ	2.37	0.59
3:DP:56:ILE:HD12	3:DP:56:ILE:N	2.17	0.59
3:DH:56:ILE:N	3:DH:56:ILE:HD12	2.18	0.59
3:D0:56:ILE:N	3:D0:56:ILE:HD12	2.17	0.59
3:DT:56:ILE:HD12	3:DT:56:ILE:N	2.18	0.59
3:DY:56:ILE:N	3:DY:56:ILE:HD12	2.18	0.59
3:DM:56:ILE:N	3:DM:56:ILE:HD12	2.18	0.59
1:AT:86:ILE:CD1	1:AT:86:ILE:N	2.65	0.59
2:CY:35:CYS:O	2:CY:36:TYR:HB2	2.03	0.59
1:AE:136:ALA:H	1:AF:39:ASP:HB2	111.92	0.59
1:AA:39:ASP:HB2	1:AN:136:ALA:H	252.11	0.59
1:AN:136:ALA:H	1:AO:39:ASP:HB2	1.67	0.59
2:CU:35:CYS:O	2:CU:36:TYR:HB2	2.03	0.59
2:C5:35:CYS:O	2:C5:36:TYR:HB2	2.03	0.59
2:CI:36:TYR:HE2	2:CI:130:PRO:CG	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:178:THR:O	1:AJ:180:GLU:N	2.36	0.59
1:AT:178:THR:O	1:AT:180:GLU:N	2.36	0.59
2:CW:36:TYR:HE2	2:CW:130:PRO:CG	2.15	0.59
1:A6:178:THR:O	1:A6:180:GLU:N	2.36	0.59
2:CD:176:PRO:O	2:CD:192:TRP:NE1	2.35	0.59
2:CV:176:PRO:O	2:CV:192:TRP:NE1	2.35	0.59
3:DQ:80:LEU:HD12	3:DQ:80:LEU:N	2.18	0.59
1:AO:178:THR:O	1:AO:180:GLU:N	2.36	0.59
3:DL:80:LEU:N	3:DL:80:LEU:HD12	2.18	0.59
3:DE:80:LEU:HD12	3:DE:80:LEU:N	2.18	0.59
3:DF:94:SER:HB3	3:DF:169:VAL:HG13	1.85	0.59
3:DZ:94:SER:HB3	3:DZ:169:VAL:HG13	1.85	0.59
2:CF:176:PRO:O	2:CF:192:TRP:NE1	2.35	0.59
2:CW:115:ASN:CA	3:DS:119:LYS:HD2	246.92	0.59
2:CC:115:ASN:CA	3:ED:119:LYS:HD2	246.92	0.59
2:CR:115:ASN:ND2	3:EE:189:THR:O	2.35	0.59
2:CK:115:ASN:HA	3:DA:119:LYS:CE	269.91	0.59
2:CJ:115:ASN:ND2	3:DM:189:THR:O	235.03	0.59
2:CD:115:ASN:HA	3:D4:119:LYS:CE	148.92	0.59
2:CP:115:ASN:ND2	3:D0:189:THR:O	91.24	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:DR:100:TYR:CE1	3:DR:167:MET:HB2	3.15	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:AR:88:PHE:CE2	1:AR:146:ILE:HG21	2.37	0.59
1:AT:88:PHE:CE2	1:AT:146:ILE:HG21	2.37	0.59
1:AU:40:VAL:O	1:AU:41:GLU:HB2	2.03	0.59
1:AJ:156:PHE:CD2	3:DJ:25:LEU:HD12	2.38	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
1:BC:156:PHE:CD2	3:DR:25:LEU:HD12	147.52	0.59
3:EE:42:ASN:HD22	3:EE:44:ILE:HG22	1.65	0.59
1:A6:156:PHE:CD2	3:D7:25:LEU:HD12	2.38	0.59
1:AL:112:PRO:HG3	3:DM:223:PRO:HD3	1.85	0.59
1:AK:112:PRO:HG3	3:DN:223:PRO:HD3	72.24	0.59
1:AM:112:PRO:HG3	3:DN:223:PRO:HD3	1.85	0.59
1:AS:112:PRO:HG3	3:DP:223:PRO:HD3	1.85	0.59
1:AD:112:PRO:HG3	3:DG:223:PRO:HD3	123.87	0.59
1:A4:121:LEU:CD2	1:A5:207:CYS:H	2.12	0.59
1:A2:40:VAL:O	1:A2:41:GLU:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:17:SER:O	3:DZ:19:PRO:HD3	2.03	0.59
1:AR:112:PRO:HG3	3:DS:223:PRO:HD3	1.85	0.59
1:A3:115:THR:HG22	1:A3:131:GLN:OE1	2.02	0.59
2:C4:52:THR:HG23	2:CU:55:GLY:HA3	231.37	0.59
2:C8:52:THR:HG23	2:CD:55:GLY:HA3	118.45	0.59
2:C2:55:GLY:HA3	2:CG:52:THR:HG23	231.37	0.59
2:CE:55:GLY:HA3	2:CJ:52:THR:HG23	1.84	0.59
2:C8:27:GLN:HG3	2:C8:28:GLY:N	2.17	0.59
1:AJ:30:VAL:HG13	1:AJ:218:MET:HE2	1.83	0.59
2:C7:27:GLN:HG3	2:C7:28:GLY:N	2.17	0.59
1:BA:223:PRO:HD3	2:CP:158:PHE:CZ	107.81	0.59
3:DF:56:ILE:HD12	3:DF:56:ILE:N	2.17	0.59
1:A2:173:GLY:HA3	2:C3:188:LEU:O	2.03	0.59
1:BC:173:GLY:HA3	2:CR:188:LEU:O	157.91	0.59
1:AX:173:GLY:HA3	2:CY:188:LEU:O	2.03	0.59
2:CI:223:ASN:ND2	2:CI:223:ASN:H	2.02	0.59
2:CU:223:ASN:H	2:CU:223:ASN:ND2	2.01	0.59
2:CY:223:ASN:ND2	2:CY:223:ASN:H	2.01	0.59
1:AO:39:ASP:HB2	1:AR:136:ALA:H	137.67	0.59
2:CP:35:CYS:O	2:CP:36:TYR:HB2	2.03	0.59
1:AC:39:ASP:HB2	1:AG:136:ALA:H	186.49	0.59
2:C2:35:CYS:O	2:C2:36:TYR:HB2	2.03	0.59
2:CG:35:CYS:O	2:CG:36:TYR:HB2	2.03	0.59
1:AL:178:THR:O	1:AL:180:GLU:N	2.36	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
3:D9:94:SER:HB3	3:D9:169:VAL:HG13	1.85	0.59
1:BB:178:THR:O	1:BB:180:GLU:N	2.36	0.59
1:AZ:5:GLY:O	1:AZ:6:GLU:HB3	2.01	0.59
1:A1:136:ALA:H	1:A2:39:ASP:HB2	1.67	0.59
2:CJ:36:TYR:HE2	2:CJ:130:PRO:CG	2.15	0.59
1:BC:178:THR:O	1:BC:180:GLU:N	2.36	0.59
2:C0:176:PRO:O	2:C0:192:TRP:NE1	2.36	0.59
1:AP:39:ASP:HB2	1:AS:136:ALA:H	1.67	0.59
3:D2:80:LEU:N	3:D2:80:LEU:HD12	2.18	0.59
3:D3:80:LEU:HD12	3:D3:80:LEU:N	2.18	0.59
3:ED:80:LEU:HD12	3:ED:80:LEU:N	2.18	0.59
3:DO:80:LEU:N	3:DO:80:LEU:HD12	2.18	0.59
3:D6:94:SER:HB3	3:D6:169:VAL:HG13	1.85	0.59
1:BF:136:ALA:H	1:BG:39:ASP:HB2	1.67	0.59
1:AY:5:GLY:O	1:AY:6:GLU:HB3	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:178:THR:O	1:A7:180:GLU:N	2.36	0.59
3:DY:94:SER:HB3	3:DY:169:VAL:HG13	1.85	0.59
2:CH:115:ASN:OD1	3:DN:119:LYS:HD2	256.14	0.58
2:CW:115:ASN:HA	3:DJ:119:LYS:CE	2.33	0.58
2:CW:115:ASN:ND2	3:DS:189:THR:O	250.38	0.58
2:CC:115:ASN:ND2	3:ED:189:THR:O	250.37	0.58
2:CL:115:ASN:ND2	3:D8:189:THR:O	116.12	0.58
2:C2:115:ASN:ND2	3:DH:189:THR:O	262.00	0.58
2:CQ:115:ASN:CA	3:DP:119:LYS:HD2	110.51	0.58
2:C1:115:ASN:HA	3:DO:119:LYS:CE	2.33	0.58
2:CQ:115:ASN:HA	3:DP:119:LYS:CE	108.94	0.58
2:C0:115:ASN:HA	3:DQ:119:LYS:CE	2.33	0.58
2:CA:115:ASN:OD1	3:DL:119:LYS:HD2	256.39	0.58
2:CA:115:ASN:HA	3:DW:119:LYS:CE	2.33	0.58
2:CY:110:VAL:HG12	2:CY:215:VAL:HA	1.83	0.58
3:DI:100:TYR:CE1	3:DI:167:MET:HB2	2.37	0.58
3:EB:100:TYR:CE2	3:EB:167:MET:HB2	2.37	0.58
3:DX:100:TYR:CE1	3:DX:167:MET:HB2	2.37	0.58
1:A8:207:CYS:H	1:AB:121:LEU:CD2	227.03	0.58
1:A8:40:VAL:O	1:A8:41:GLU:HB2	2.03	0.58
1:AA:156:PHE:CD2	3:DA:25:LEU:HD12	2.38	0.58
1:AJ:121:LEU:CD2	1:AK:207:CYS:H	289.35	0.58
1:AL:156:PHE:CD2	3:DL:25:LEU:HD12	2.38	0.58
1:AQ:40:VAL:O	1:AQ:41:GLU:HB2	2.03	0.58
1:BB:88:PHE:CE2	1:BB:146:ILE:HG21	2.36	0.58
1:BH:156:PHE:CD2	3:ED:25:LEU:HD12	2.38	0.58
1:AM:156:PHE:CD2	3:DO:25:LEU:HD12	38.39	0.58
1:AJ:112:PRO:HG3	3:DF:223:PRO:HD3	1.85	0.58
1:AL:112:PRO:HG3	3:DJ:223:PRO:HD3	268.98	0.58
1:AM:112:PRO:HG3	3:DP:223:PRO:HD3	132.12	0.58
1:AA:112:PRO:HG3	3:DB:223:PRO:HD3	1.85	0.58
1:AE:112:PRO:HG3	3:DA:223:PRO:HD3	1.85	0.58
1:AG:112:PRO:HG3	3:DH:223:PRO:HD3	1.85	0.58
1:A1:121:LEU:CD2	1:A2:207:CYS:H	2.12	0.58
3:D2:14:PHE:O	3:D2:15:MET:HB2	2.02	0.58
3:D0:14:PHE:O	3:D0:15:MET:HB2	2.02	0.58
1:AU:112:PRO:HG3	3:DW:223:PRO:HD3	1.85	0.58
1:AE:173:GLY:CA	2:CE:188:LEU:O	2.50	0.58
1:BE:115:THR:HG22	1:BE:131:GLN:OE1	2.02	0.58
2:C7:52:THR:HG23	2:CL:55:GLY:HA3	120.73	0.58
2:C9:73:GLN:NE2	2:C9:73:GLN:HA	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:173:GLY:HA3	2:CQ:188:LEU:O	2.02	0.58
1:BF:173:GLY:HA3	2:CU:188:LEU:O	255.14	0.58
2:CO:223:ASN:ND2	2:CO:223:ASN:H	2.01	0.58
2:CR:223:ASN:H	2:CR:223:ASN:ND2	2.01	0.58
2:CN:36:TYR:HE2	2:CN:130:PRO:CG	2.15	0.58
2:CK:35:CYS:O	2:CK:36:TYR:HB2	2.03	0.58
2:CX:36:TYR:HE2	2:CX:130:PRO:CG	2.15	0.58
1:AA:178:THR:O	1:AA:180:GLU:N	2.36	0.58
1:AZ:178:THR:O	1:AZ:180:GLU:N	2.36	0.58
2:CP:176:PRO:O	2:CP:192:TRP:NE1	2.36	0.58
3:DC:94:SER:HB3	3:DC:169:VAL:HG13	1.85	0.58
3:EB:94:SER:HB3	3:EB:169:VAL:HG13	1.85	0.58
2:C1:176:PRO:O	2:C1:192:TRP:NE1	2.35	0.58
3:EC:80:LEU:N	3:EC:80:LEU:HD12	2.18	0.58
2:CA:36:TYR:HE2	2:CA:130:PRO:CG	2.15	0.58
2:CC:115:ASN:HA	3:DN:119:LYS:CE	159.27	0.58
2:CI:115:ASN:ND2	3:DX:189:THR:O	2.35	0.58
2:CJ:115:ASN:CA	3:DM:119:LYS:HD2	230.42	0.58
2:CR:115:ASN:HA	3:DI:119:LYS:CE	159.27	0.58
2:C5:115:ASN:ND2	3:DG:189:THR:O	2.35	0.58
2:CO:115:ASN:OD1	3:DP:119:LYS:HD2	2.04	0.58
2:CG:115:ASN:ND2	3:D3:189:THR:O	262.00	0.58
2:CN:115:ASN:OD1	3:DE:119:LYS:HD2	256.55	0.58
2:CE:115:ASN:ND2	3:DF:189:THR:O	2.35	0.58
2:CS:115:ASN:OD1	3:EA:119:LYS:HD2	158.98	0.58
2:C4:115:ASN:ND2	3:EC:189:THR:O	2.35	0.58
1:AC:84:LEU:O	1:AC:155:GLY:HA2	2.04	0.58
1:AK:84:LEU:O	1:AK:155:GLY:HA2	2.03	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	112.67	0.58
1:AP:156:PHE:CD2	3:DP:25:LEU:HD12	2.38	0.58
1:AX:209:LEU:O	1:AX:210:ARG:HG2	2.01	0.58
1:BB:209:LEU:CD1	1:BB:210:ARG:H	2.15	0.58
1:A9:156:PHE:CD2	3:DA:25:LEU:HD12	236.08	0.58
3:DE:17:SER:O	3:DE:19:PRO:HD3	2.03	0.58
1:AC:156:PHE:CD2	3:DE:25:LEU:HD12	38.39	0.58
3:DJ:17:SER:O	3:DJ:19:PRO:HD3	2.03	0.58
1:AJ:156:PHE:CD2	3:DL:25:LEU:HD12	259.80	0.58
1:AN:156:PHE:CD2	3:DN:25:LEU:HD12	2.38	0.58
3:DM:42:ASN:HD22	3:DM:44:ILE:HG22	1.65	0.58
1:AV:40:VAL:O	1:AV:41:GLU:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:112:PRO:HG3	3:EB:223:PRO:HD3	1.85	0.58
1:AK:112:PRO:HG3	3:DL:223:PRO:HD3	1.85	0.58
1:AO:112:PRO:HG3	3:DK:223:PRO:HD3	1.85	0.58
1:BB:112:PRO:HG3	3:DR:223:PRO:HD3	148.87	0.58
1:A0:156:PHE:CD2	3:D1:25:LEU:HD12	2.38	0.58
1:A5:156:PHE:CD2	3:D6:25:LEU:HD12	2.38	0.58
1:AA:173:GLY:HA3	2:CA:188:LEU:O	2.03	0.58
1:AG:173:GLY:CA	2:CG:188:LEU:O	2.50	0.58
1:A6:173:GLY:HA3	2:C7:188:LEU:O	2.03	0.58
2:CJ:55:GLY:HA3	2:CL:52:THR:HG23	211.33	0.58
2:CQ:52:THR:HG23	2:CX:55:GLY:HA3	124.56	0.58
2:CC:52:THR:HG23	2:CV:55:GLY:HA3	118.45	0.58
1:A2:115:THR:HG22	1:A2:131:GLN:OE1	2.02	0.58
2:CB:52:THR:HG23	2:CS:55:GLY:HA3	231.70	0.58
2:C5:27:GLN:HG3	2:C5:28:GLY:N	2.17	0.58
2:CG:27:GLN:HG3	2:CG:28:GLY:N	2.17	0.58
2:CZ:27:GLN:HG3	2:CZ:28:GLY:N	2.17	0.58
3:D5:56:ILE:HD12	3:D5:56:ILE:N	2.17	0.58
1:AT:173:GLY:HA3	2:CU:188:LEU:O	2.03	0.58
2:CT:223:ASN:H	2:CT:223:ASN:ND2	2.01	0.58
2:CC:223:ASN:H	2:CC:223:ASN:ND2	2.01	0.58
2:CG:223:ASN:ND2	2:CG:223:ASN:H	2.01	0.58
2:CH:223:ASN:H	2:CH:223:ASN:ND2	2.02	0.58
2:CK:223:ASN:H	2:CK:223:ASN:ND2	2.01	0.58
2:CR:35:CYS:O	2:CR:36:TYR:HB2	2.03	0.58
2:C3:35:CYS:O	2:C3:36:TYR:HB2	2.03	0.58
2:C8:36:TYR:HE2	2:C8:130:PRO:CG	2.15	0.58
2:CZ:35:CYS:O	2:CZ:36:TYR:HB2	2.03	0.58
1:AG:178:THR:O	1:AG:180:GLU:N	2.36	0.58
2:CJ:35:CYS:O	2:CJ:36:TYR:HB2	2.03	0.58
2:CM:36:TYR:HE2	2:CM:130:PRO:CG	2.15	0.58
3:DA:94:SER:HB3	3:DA:169:VAL:HG13	1.85	0.58
1:AW:178:THR:O	1:AW:180:GLU:N	2.36	0.58
3:DO:94:SER:HB3	3:DO:169:VAL:HG13	1.85	0.58
1:A5:178:THR:O	1:A5:180:GLU:N	2.36	0.58
2:CU:176:PRO:O	2:CU:192:TRP:NE1	2.36	0.58
3:DC:80:LEU:HD12	3:DC:80:LEU:N	2.18	0.58
3:DN:80:LEU:HD12	3:DN:80:LEU:N	2.18	0.58
1:AU:178:THR:O	1:AU:180:GLU:N	2.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:176:PRO:O	2:C4:192:TRP:NE1	2.35	0.58
2:CM:115:ASN:HA	3:DI:119:LYS:CE	255.68	0.58
2:CA:115:ASN:HA	3:DL:119:LYS:CE	254.59	0.58
2:CS:115:ASN:HA	3:DC:119:LYS:CE	255.68	0.58
2:CB:115:ASN:HA	3:DF:119:LYS:CE	144.42	0.58
1:AC:156:PHE:CD2	3:DC:25:LEU:HD12	2.38	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	291.43	0.58
1:AP:42:THR:HG21	1:AS:120:GLN:O	2.04	0.58
1:AT:120:GLN:O	1:AU:42:THR:HG21	2.04	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
3:DN:17:SER:O	3:DN:19:PRO:HD3	2.03	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:EB:17:SER:O	3:EB:19:PRO:HD3	2.04	0.58
1:BH:84:LEU:O	1:BH:155:GLY:HA2	2.04	0.58
1:BG:156:PHE:CD2	3:EC:25:LEU:HD12	2.38	0.58
1:A4:102:VAL:HG22	1:A4:199:SER:CB	2.31	0.58
1:A0:84:LEU:O	1:A0:155:GLY:HA2	2.04	0.58
3:D2:17:SER:O	3:D2:19:PRO:HD3	2.03	0.58
3:D0:17:SER:O	3:D0:19:PRO:HD3	2.03	0.58
1:A6:40:VAL:O	1:A6:41:GLU:HB2	2.03	0.58
1:AZ:115:THR:HG22	1:AZ:131:GLN:OE1	2.02	0.58
2:CX:73:GLN:HA	2:CX:73:GLN:NE2	2.17	0.58
3:DZ:56:ILE:HD12	3:DZ:56:ILE:N	2.17	0.58
2:C8:78:ALA:HA	2:C8:196:ILE:O	2.02	0.58
1:AA:224:ILE:HG13	3:DA:89:TYR:CE1	2.37	0.58
1:AT:5:GLY:O	1:AT:6:GLU:HB3	2.01	0.58
2:CV:35:CYS:O	2:CV:36:TYR:HB2	2.03	0.58
1:AI:178:THR:O	1:AI:180:GLU:N	2.36	0.58
1:AK:178:THR:O	1:AK:180:GLU:N	2.36	0.58
1:AS:178:THR:O	1:AS:180:GLU:N	2.36	0.58
2:CW:35:CYS:O	2:CW:36:TYR:HB2	2.03	0.58
1:AU:136:ALA:H	1:AV:39:ASP:HB2	1.67	0.58
3:D3:94:SER:HB3	3:D3:169:VAL:HG13	1.85	0.58
1:BC:136:ALA:H	1:BD:39:ASP:HB2	1.67	0.58
2:CC:176:PRO:O	2:CC:192:TRP:NE1	2.36	0.58
3:D6:80:LEU:N	3:D6:80:LEU:HD12	2.18	0.58
3:D8:80:LEU:HD12	3:D8:80:LEU:N	2.18	0.58
3:DS:80:LEU:HD12	3:DS:80:LEU:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:80:LEU:HD12	3:DD:80:LEU:N	2.18	0.58
3:DX:80:LEU:HD12	3:DX:80:LEU:N	2.18	0.58
3:DG:80:LEU:N	3:DG:80:LEU:HD12	2.18	0.58
1:AW:136:ALA:H	1:AX:39:ASP:HB2	1.67	0.58
2:C6:176:PRO:O	2:C6:192:TRP:NE1	2.36	0.58
2:CH:115:ASN:OD1	3:DS:119:LYS:HD2	157.66	0.58
2:CI:115:ASN:HA	3:DJ:119:LYS:CE	68.16	0.58
2:CW:115:ASN:HA	3:DS:119:LYS:CE	246.74	0.58
2:C7:115:ASN:CA	3:DM:119:LYS:HD2	153.43	0.58
2:CL:115:ASN:OD1	3:DK:119:LYS:HD2	112.70	0.58
2:CL:115:ASN:HA	3:D8:119:LYS:CE	111.34	0.58
2:CL:115:ASN:HA	3:DK:119:LYS:CE	108.95	0.58
2:CZ:115:ASN:CA	3:DQ:119:LYS:HD2	89.33	0.58
2:C0:115:ASN:ND2	3:DQ:189:THR:O	2.35	0.58
2:CA:115:ASN:CA	3:DW:119:LYS:HD2	2.31	0.58
2:CA:115:ASN:ND2	3:DL:189:THR:O	262.00	0.58
2:C3:115:ASN:OD1	3:DU:119:LYS:HD2	2.03	0.58
2:CP:115:ASN:HA	3:D1:119:LYS:CE	2.33	0.58
3:D5:100:TYR:CE1	3:D5:167:MET:HB2	2.37	0.58
1:A8:156:PHE:CD2	3:D9:25:LEU:HD12	2.38	0.58
1:A8:42:THR:HG21	1:AB:120:GLN:O	224.42	0.58
1:AB:156:PHE:CD2	3:DB:25:LEU:HD12	2.38	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:AM:84:LEU:O	1:AM:155:GLY:HA2	2.04	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:BD:102:VAL:HG22	1:BD:199:SER:CB	2.31	0.58
3:DB:17:SER:O	3:DB:19:PRO:HD3	2.03	0.58
3:EA:17:SER:O	3:EA:19:PRO:HD3	2.03	0.58
3:EA:42:ASN:HD22	3:EA:44:ILE:HG22	1.65	0.58
1:A7:156:PHE:CD2	3:D8:25:LEU:HD12	2.38	0.58
3:DE:42:ASN:HD22	3:DE:44:ILE:HG22	1.65	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:AI:112:PRO:HG3	3:DL:223:PRO:HD3	275.08	0.58
1:A1:120:GLN:O	1:A2:42:THR:HG21	2.04	0.58
1:A0:121:LEU:CD2	1:A1:207:CYS:H	2.12	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:173:GLY:HA3	2:CO:188:LEU:O	101.53	0.58
1:A7:173:GLY:HA3	2:C8:188:LEU:O	2.03	0.58
2:CQ:55:GLY:HA3	2:CX:52:THR:HG23	120.73	0.58
1:AS:30:VAL:HG13	1:AS:218:MET:HE2	1.85	0.58
1:AO:223:PRO:HD3	2:CS:158:PHE:CZ	122.94	0.58
1:AV:173:GLY:HA3	2:CW:188:LEU:O	2.03	0.58
1:BI:223:PRO:HD3	2:CX:158:PHE:CZ	175.15	0.58
1:A1:173:GLY:HA3	2:C2:188:LEU:O	2.02	0.58
3:D1:56:ILE:HD12	3:D1:56:ILE:N	2.18	0.58
1:AY:86:ILE:CD1	1:AY:86:ILE:N	2.65	0.58
2:CN:223:ASN:ND2	2:CN:223:ASN:H	2.02	0.58
2:C9:223:ASN:ND2	2:C9:223:ASN:H	2.01	0.58
2:CM:223:ASN:ND2	2:CM:223:ASN:H	2.01	0.58
2:CF:35:CYS:O	2:CF:36:TYR:HB2	2.03	0.58
1:A9:136:ALA:H	1:AN:39:ASP:HB2	149.23	0.58
1:A8:136:ALA:H	1:A9:39:ASP:HB2	1.67	0.58
1:A6:136:ALA:H	1:A7:39:ASP:HB2	1.67	0.58
3:ED:94:SER:HB3	3:ED:169:VAL:HG13	1.85	0.58
3:D7:80:LEU:N	3:D7:80:LEU:HD12	2.18	0.58
3:EB:80:LEU:HD12	3:EB:80:LEU:N	2.18	0.58
3:DV:80:LEU:HD12	3:DV:80:LEU:N	2.18	0.58
3:D7:94:SER:HB3	3:D7:169:VAL:HG13	1.85	0.58
1:BI:178:THR:O	1:BI:180:GLU:N	2.36	0.58
3:DR:94:SER:HB3	3:DR:169:VAL:HG13	1.85	0.58
2:CW:115:ASN:OD1	3:DS:119:LYS:HD2	245.60	0.58
2:CJ:115:ASN:OD1	3:DM:119:LYS:HD2	228.60	0.58
2:CK:115:ASN:HA	3:DB:119:LYS:CE	254.59	0.58
2:CJ:115:ASN:C	3:DA:119:LYS:HZ3	2.06	0.58
2:CR:115:ASN:HA	3:EE:119:LYS:CE	2.33	0.58
2:CQ:115:ASN:OD1	3:DP:119:LYS:HD2	112.70	0.58
2:CG:115:ASN:OD1	3:D3:119:LYS:HD2	256.39	0.58
2:CF:115:ASN:CA	3:DV:119:LYS:HD2	180.13	0.58
3:DY:100:TYR:CE2	3:DY:167:MET:HB2	2.37	0.58
1:A8:120:GLN:O	1:A9:42:THR:HG21	2.04	0.58
1:AD:156:PHE:CD2	3:DF:25:LEU:HD12	127.96	0.58
1:AE:120:GLN:O	1:AF:42:THR:HG21	126.53	0.58
1:AE:84:LEU:O	1:AE:155:GLY:HA2	2.04	0.58
1:AF:42:THR:HG21	1:AJ:120:GLN:O	2.04	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:84:LEU:O	1:AQ:155:GLY:HA2	2.04	0.58
1:AR:156:PHE:CD2	3:DR:25:LEU:HD12	2.38	0.58
1:AR:40:VAL:O	1:AR:41:GLU:HB2	2.03	0.58
3:DA:17:SER:O	3:DA:19:PRO:HD3	2.03	0.58
1:AI:156:PHE:CD2	3:DK:25:LEU:HD12	262.68	0.58
1:AW:156:PHE:CD2	3:DX:25:LEU:HD12	2.38	0.58
3:D7:42:ASN:HD22	3:D7:44:ILE:HG22	1.65	0.58
1:AU:156:PHE:CD2	3:DV:25:LEU:HD12	2.38	0.58
1:AJ:112:PRO:HG3	3:DM:223:PRO:HD3	266.24	0.58
1:AH:112:PRO:HG3	3:DI:223:PRO:HD3	1.85	0.58
1:AN:112:PRO:HG3	3:DO:223:PRO:HD3	1.85	0.58
1:AY:102:VAL:HG22	1:AY:199:SER:CB	2.30	0.58
1:AW:112:PRO:HG3	3:DY:223:PRO:HD3	1.85	0.58
1:BC:112:PRO:HG3	3:DS:223:PRO:HD3	160.80	0.58
1:AK:173:GLY:HA3	2:CK:188:LEU:O	2.03	0.58
1:AN:173:GLY:HA3	2:CN:188:LEU:O	2.02	0.58
2:CK:73:GLN:HA	2:CK:73:GLN:NE2	2.17	0.58
1:AD:218:MET:HB3	3:DF:40:PHE:CE1	105.43	0.58
1:A2:218:MET:HB3	3:D3:40:PHE:CE1	2.39	0.58
1:AX:30:VAL:HG13	1:AX:218:MET:HE2	1.85	0.58
1:AT:218:MET:HB3	3:DU:40:PHE:CE1	2.39	0.58
3:DK:56:ILE:N	3:DK:56:ILE:HD12	2.18	0.58
1:AX:86:ILE:N	1:AX:86:ILE:CD1	2.65	0.58
2:CF:223:ASN:H	2:CF:223:ASN:ND2	2.01	0.58
2:CX:223:ASN:ND2	2:CX:223:ASN:H	2.01	0.58
2:CS:223:ASN:H	2:CS:223:ASN:ND2	2.02	0.58
2:C8:223:ASN:H	2:C8:223:ASN:ND2	2.01	0.58
1:A8:39:ASP:HB2	1:AB:136:ALA:H	214.91	0.58
2:CT:35:CYS:O	2:CT:36:TYR:HB2	2.03	0.58
1:AM:178:THR:O	1:AM:180:GLU:N	2.36	0.58
1:AV:178:THR:O	1:AV:180:GLU:N	2.36	0.58
1:A4:178:THR:O	1:A4:180:GLU:N	2.36	0.58
3:DN:94:SER:HB3	3:DN:169:VAL:HG13	1.85	0.58
3:DG:94:SER:HB3	3:DG:169:VAL:HG13	1.85	0.58
2:C8:115:ASN:HA	3:D9:119:LYS:CE	2.33	0.58
2:CJ:115:ASN:HA	3:DM:119:LYS:CE	228.82	0.58
2:CV:115:ASN:HA	3:DB:119:LYS:CE	2.33	0.58
2:CD:115:ASN:HA	3:D7:119:LYS:CE	2.33	0.58
2:CO:115:ASN:OD1	3:DR:119:LYS:HD2	146.36	0.58
2:C1:115:ASN:ND2	3:DO:189:THR:O	2.35	0.58
2:CQ:115:ASN:HA	3:DY:119:LYS:CE	111.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CN:115:ASN:HA	3:D2:119:LYS:CE	2.33	0.58
2:CE:115:ASN:HA	3:DC:119:LYS:CE	151.01	0.58
2:CB:115:ASN:OD1	3:DF:119:LYS:HD2	145.23	0.58
1:AA:84:LEU:O	1:AA:155:GLY:HA2	2.04	0.58
1:AA:120:GLN:O	1:AB:42:THR:HG21	2.04	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: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:AK:40:VAL:O	1:AK:41:GLU:HB2	2.03	0.58
1:AL:84:LEU:O	1:AL:155:GLY:HA2	2.04	0.58
1:AM:120:GLN:O	1:BA:42:THR:HG21	224.42	0.58
1:AM:40:VAL:O	1:AM:41:GLU:HB2	2.03	0.58
1:A9:120:GLN:O	1:AN:42:THR:HG21	161.09	0.58
1:AN:120:GLN:O	1:AO:42:THR:HG21	2.04	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: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:156:PHE:CD2	3:EB:25:LEU:HD12	2.38	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
3:D9:17:SER:O	3:D9:19:PRO:HD3	2.03	0.58
1:AD:156:PHE:CD2	3:DD:25:LEU:HD12	2.38	0.58
1:AF:156:PHE:CD2	3:DH:25:LEU:HD12	38.39	0.58
1:AH:156:PHE:CD2	3:DJ:25:LEU:HD12	38.39	0.58
1:AK:156:PHE:CD2	3:DM:25:LEU:HD12	38.39	0.58
3:DR:42:ASN:HD22	3:DR:44:ILE:HG22	1.66	0.58
3:DK:42:ASN:HD22	3:DK:44:ILE:HG22	1.65	0.58
3:DW:42:ASN:HD22	3:DW:44:ILE:HG22	1.65	0.58
1:A7:84:LEU:O	1:A7:155:GLY:HA2	2.03	0.58
1:A3:156:PHE:CD2	3:D4:25:LEU:HD12	2.38	0.58
1:A4:156:PHE:CD2	3:D5:25:LEU:HD12	2.38	0.58
3:D7:17:SER:O	3:D7:19:PRO:HD3	2.03	0.58
3:D3:17:SER:O	3:D3:19:PRO:HD3	2.03	0.58
1:A2:112:PRO:HG3	3:DZ:223:PRO:HD3	1.85	0.58
1:A2:156:PHE:CD2	3:D3:25:LEU:HD12	2.38	0.58
1:A2:120:GLN:O	1:AY:42:THR:HG21	2.04	0.58
1:A0:112:PRO:HG3	3:D2:223:PRO:HD3	1.85	0.58
1:AP:112:PRO:HG3	3:DQ:223:PRO:HD3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:173:GLY:HA3	2:CI:188:LEU:O	2.02	0.58
2:CS:52:THR:HG23	2:CX:55:GLY:HA3	210.05	0.58
2:CG:55:GLY:HA3	2:CT:52:THR:HG23	210.05	0.58
2:CJ:52:THR:HG23	2:CL:55:GLY:HA3	211.33	0.58
1:AA:218:MET:HB3	3:DC:40:PHE:CE1	71.93	0.58
1:AM:218:MET:HB3	3:DO:40:PHE:CE1	71.93	0.58
1:AM:218:MET:HB3	3:DM:40:PHE:CE1	2.39	0.58
1:AN:218:MET:HB3	3:DN:40:PHE:CE1	2.39	0.58
1:AL:218:MET:HB3	3:DL:40:PHE:CE1	2.39	0.58
1:A3:218:MET:HB3	3:D4:40:PHE:CE1	2.39	0.58
1:BG:218:MET:HB3	3:EC:40:PHE:CE1	2.39	0.58
1:AP:218:MET:HB3	3:DP:40:PHE:CE1	2.39	0.58
1:A6:218:MET:HB3	3:D7:40:PHE:CE1	2.39	0.58
1:A0:218:MET:HB3	3:D1:40:PHE:CE1	2.39	0.58
1:A0:173:GLY:HA3	2:C1:188:LEU:O	2.03	0.58
3:EA:56:ILE:N	3:EA:56:ILE:HD12	2.18	0.58
2:CP:223:ASN:ND2	2:CP:223:ASN:H	2.01	0.58
2:CA:223:ASN:H	2:CA:223:ASN:ND2	2.01	0.58
2:CW:223:ASN:H	2:CW:223:ASN:ND2	2.01	0.58
1:AH:39:ASP:HB2	1:AL:136:ALA:H	276.04	0.58
2:CO:35:CYS:O	2:CO:36:TYR:HB2	2.03	0.58
1:A1:178:THR:O	1:A1:180:GLU:N	2.36	0.58
1:A0:178:THR:O	1:A0:180:GLU:N	2.36	0.58
2:CI:176:PRO:O	2:CI:192:TRP:NE1	2.36	0.58
3:DS:94:SER:HB3	3:DS:169:VAL:HG13	1.85	0.58
3:DE:94:SER:HB3	3:DE:169:VAL:HG13	1.85	0.58
2:CQ:35:CYS:O	2:CQ:36:TYR:HB2	2.03	0.58
3:DM:94:SER:HB3	3:DM:169:VAL:HG13	1.85	0.58
2:CQ:98:VAL:O	2:CQ:98:VAL:HG12	2.04	0.58
1:A6:5:GLY:O	1:A6:6:GLU:HB3	2.01	0.58
2:C8:115:ASN:ND2	3:D9:189:THR:O	2.35	0.58
2:CI:115:ASN:CA	3:DX:119:LYS:HD2	2.31	0.58
2:CC:115:ASN:HA	3:ED:119:LYS:CE	246.74	0.58
2:CV:115:ASN:ND2	3:DB:189:THR:O	2.36	0.58
2:CM:115:ASN:C	3:DD:119:LYS:HZ3	160.79	0.58
2:C5:115:ASN:CA	3:DG:119:LYS:HD2	2.31	0.58
2:CG:115:ASN:HA	3:EB:119:LYS:CE	2.33	0.58
2:CN:115:ASN:CA	3:D2:119:LYS:HD2	2.31	0.58
2:CE:115:ASN:HA	3:DF:119:LYS:CE	2.33	0.58
2:CB:115:ASN:OD1	3:DT:119:LYS:HD2	256.14	0.58
2:CF:115:ASN:C	3:D6:119:LYS:HZ3	2.06	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:156:PHE:CD2	3:DC:25:LEU:HD12	38.39	0.58
1:AC:102:VAL:HG22	1:AC:199:SER:CB	2.31	0.58
1:AH:156:PHE:CD2	3:DH:25:LEU:HD12	2.38	0.58
1:AJ:120:GLN:O	1:AK:42:THR:HG21	290.63	0.58
1:AM:42:THR:HG21	1:BD:120:GLN:O	253.48	0.58
1:AS:209:LEU:CD1	1:AS:210:ARG:H	2.15	0.58
1:AT:40:VAL:O	1:AT:41:GLU:HB2	2.03	0.58
1:AT:84:LEU:O	1:AT:155:GLY:HA2	2.03	0.58
1:AX:40:VAL:O	1:AX:41:GLU:HB2	2.03	0.58
1:BB:120:GLN:O	1:BC:42:THR:HG21	2.04	0.58
1:BA:120:GLN:O	1:BB:42:THR:HG21	2.04	0.58
1:BC:102:VAL:HG22	1:BC:199:SER:CB	2.31	0.58
1:BI:156:PHE:CD2	3:EE:25:LEU:HD12	2.38	0.58
3:DC:17:SER:O	3:DC:19:PRO:HD3	2.03	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
1:AL:156:PHE:CD2	3:DN:25:LEU:HD12	38.39	0.58
1:AQ:156:PHE:CD2	3:DQ:25:LEU:HD12	2.38	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
1:A3:42:THR:HG21	1:A7:120:GLN:O	2.04	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
1:AV:84:LEU:O	1:AV:155:GLY:HA2	2.04	0.58
1:A8:112:PRO:HG3	3:DA:223:PRO:HD3	239.91	0.58
1:AH:112:PRO:HG3	3:DK:223:PRO:HD3	270.72	0.58
1:A4:112:PRO:HG3	3:D6:223:PRO:HD3	1.85	0.58
1:A0:40:VAL:O	1:A0:41:GLU:HB2	2.03	0.58
1:A6:84:LEU:O	1:A6:155:GLY:HA2	2.04	0.58
1:A3:112:PRO:HG3	3:D5:223:PRO:HD3	1.85	0.58
1:BD:173:GLY:HA3	2:CS:188:LEU:O	160.32	0.58
2:CE:52:THR:HG23	2:CJ:55:GLY:HA3	1.84	0.58
2:CH:52:THR:HG23	2:CM:55:GLY:HA3	231.70	0.58
2:CS:55:GLY:HA3	2:CX:52:THR:HG23	211.37	0.58
1:AW:115:THR:HG22	1:AW:131:GLN:OE1	2.02	0.58
1:AD:218:MET:HB3	3:DD:40:PHE:CE1	2.39	0.58
1:AF:218:MET:HB3	3:DH:40:PHE:CE1	71.93	0.58
1:AB:218:MET:HB3	3:DD:40:PHE:CE1	71.93	0.58
2:C3:15:GLU:HG3	2:C3:29:SER:CB	2.30	0.58
3:D9:56:ILE:N	3:D9:56:ILE:HD12	2.18	0.58
3:ED:56:ILE:N	3:ED:56:ILE:HD12	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:86:ILE:N	1:AV:86:ILE:CD1	2.65	0.58
2:CD:223:ASN:ND2	2:CD:223:ASN:H	2.01	0.58
2:C4:223:ASN:H	2:C4:223:ASN:ND2	2.01	0.58
2:CB:35:CYS:O	2:CB:36:TYR:HB2	2.03	0.58
2:C4:35:CYS:O	2:C4:36:TYR:HB2	2.03	0.58
1:AR:178:THR:O	1:AR:180:GLU:N	2.36	0.58
2:CM:35:CYS:O	2:CM:36:TYR:HB2	2.03	0.58
1:BF:178:THR:O	1:BF:180:GLU:N	2.36	0.58
1:A3:39:ASP:HB2	1:A7:136:ALA:H	1.67	0.58
1:AX:178:THR:O	1:AX:180:GLU:N	2.36	0.58
3:DV:94:SER:HB3	3:DV:169:VAL:HG13	1.85	0.58
1:A5:136:ALA:H	1:A6:39:ASP:HB2	1.67	0.58
2:CE:98:VAL:O	2:CE:98:VAL:HG12	2.04	0.58
3:DH:94:SER:HB3	3:DH:169:VAL:HG13	1.85	0.58
1:BH:178:THR:O	1:BH:180:GLU:N	2.36	0.58
2:C8:115:ASN:OD1	3:D9:119:LYS:HD2	2.04	0.58
2:CH:115:ASN:C	3:DN:119:LYS:HZ3	259.56	0.58
2:CT:115:ASN:HA	3:DH:119:LYS:CE	222.67	0.58
2:CU:115:ASN:OD1	3:DG:119:LYS:HD2	246.48	0.58
2:CD:115:ASN:C	3:D7:119:LYS:HZ3	2.06	0.58
2:CD:115:ASN:OD1	3:D4:119:LYS:HD2	146.36	0.58
2:CO:115:ASN:HA	3:DR:119:LYS:CE	148.91	0.58
2:C4:115:ASN:OD1	3:EC:119:LYS:HD2	2.04	0.58
1:AB:84:LEU:O	1:AB:155:GLY:HA2	2.03	0.58
1:AC:42:THR:HG21	1:AG:120:GLN:O	199.13	0.58
1:AF:120:GLN:O	1:AG:42:THR:HG21	2.04	0.58
1:AI:84:LEU:O	1:AI:155:GLY:HA2	2.04	0.58
1:AP:102:VAL:HG22	1:AP:199:SER:CB	2.31	0.58
1:AW:40:VAL:O	1:AW:41:GLU:HB2	2.03	0.58
1:BE:207:CYS:H	1:BI:121:LEU:CD2	2.12	0.58
1:AK:156:PHE:CD2	3:DK:25:LEU:HD12	2.38	0.58
1:AT:156:PHE:CD2	3:DU:25:LEU:HD12	2.38	0.58
1:AX:156:PHE:CD2	3:DY:25:LEU:HD12	2.38	0.58
3:DX:17:SER:O	3:DX:19:PRO:HD3	2.03	0.58
1:A5:40:VAL:O	1:A5:41:GLU:HB2	2.03	0.58
1:AN:112:PRO:HG3	3:DC:223:PRO:HD3	226.89	0.58
1:AZ:156:PHE:CD2	3:D0:25:LEU:HD12	2.38	0.58
1:A5:120:GLN:O	1:A6:42:THR:HG21	2.04	0.58
1:AG:173:GLY:HA3	2:CG:188:LEU:O	2.03	0.58
2:CF:52:THR:HG23	2:CU:55:GLY:HA3	199.45	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:AJ:218:MET:HB3	3:DL:40:PHE:CE1	241.12	0.58
1:A4:218:MET:HB3	3:D5:40:PHE:CE1	2.39	0.58
1:A7:218:MET:HB3	3:D8:40:PHE:CE1	2.39	0.58
1:BA:218:MET:HB3	3:DP:40:PHE:CE1	109.27	0.58
3:D6:56:ILE:HD12	3:D6:56:ILE:N	2.17	0.58
1:AP:86:ILE:N	1:AP:86:ILE:CD1	2.65	0.58
2:CB:223:ASN:H	2:CB:223:ASN:ND2	2.01	0.58
2:CE:35:CYS:O	2:CE:36:TYR:HB2	2.03	0.58
1:AM:136:ALA:H	1:AN:39:ASP:HB2	1.67	0.58
1:BD:178:THR:O	1:BD:180:GLU:N	2.36	0.58
1:AC:178:THR:O	1:AC:180:GLU:N	2.36	0.58
1:AE:178:THR:O	1:AE:180:GLU:N	2.36	0.58
2:CQ:36:TYR:HE2	2:CQ:130:PRO:CG	2.15	0.58
1:AP:178:THR:O	1:AP:180:GLU:N	2.36	0.58
3:DI:94:SER:HB3	3:DI:169:VAL:HG13	1.85	0.58
1:AY:136:ALA:H	1:AZ:39:ASP:HB2	1.67	0.58
2:C8:176:PRO:O	2:C8:192:TRP:NE1	2.35	0.58
1:BB:136:ALA:H	1:BC:39:ASP:HB2	1.67	0.58
2:C6:98:VAL:O	2:C6:98:VAL:HG12	2.04	0.58
2:CB:98:VAL:HG12	2:CB:98:VAL:O	2.04	0.58
2:CT:98:VAL:HG12	2:CT:98:VAL:O	2.04	0.58
2:CC:98:VAL:O	2:CC:98:VAL:HG12	2.04	0.58
2:CU:98:VAL:HG12	2:CU:98:VAL:O	2.04	0.58
2:CF:98:VAL:O	2:CF:98:VAL:HG12	2.04	0.58
2:CG:98:VAL:HG12	2:CG:98:VAL:O	2.04	0.58
3:D5:80:LEU:N	3:D5:80:LEU:HD12	2.18	0.58
3:DY:80:LEU:HD12	3:DY:80:LEU:N	2.18	0.58
2:CH:115:ASN:HA	3:DS:119:LYS:CE	159.27	0.58
2:CW:115:ASN:OD1	3:DJ:119:LYS:HD2	2.04	0.58
2:CM:115:ASN:CA	3:DD:119:LYS:HD2	158.62	0.58
2:C5:115:ASN:HA	3:DG:119:LYS:CE	2.33	0.58
2:CX:115:ASN:OD1	3:DR:119:LYS:HD2	150.91	0.58
2:C6:63:THR:N	3:DE:139:MET:HG3	2.19	0.58
2:C6:115:ASN:HA	3:DE:119:LYS:CE	2.33	0.58
2:CY:115:ASN:HA	3:DZ:119:LYS:CE	2.33	0.58
2:C4:115:ASN:C	3:EC:119:LYS:HZ3	2.07	0.58
1:AB:120:GLN:O	1:AC:42:THR:HG21	2.04	0.58
1:AI:156:PHE:CD2	3:DI:25:LEU:HD12	2.38	0.58
1:AH:42:THR:HG21	1:AL:120:GLN:O	293.46	0.58
1:AO:84:LEU:O	1:AO:155:GLY:HA2	2.04	0.58
1:BA:156:PHE:CD2	3:DP:25:LEU:HD12	124.62	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:42:THR:HG21	1:BI:120:GLN:O	2.04	0.58
1:BF:84:LEU:O	1:BF:155:GLY:HA2	2.04	0.58
1:BG:40:VAL:O	1:BG:41:GLU:HB2	2.03	0.58
3:DS:17:SER:O	3:DS:19:PRO:HD3	2.04	0.58
3:DV:17:SER:O	3:DV:19:PRO:HD3	2.03	0.58
3:EC:17:SER:O	3:EC:19:PRO:HD3	2.03	0.58
3:ED:17:SER:O	3:ED:19:PRO:HD3	2.03	0.58
3:DV:42:ASN:HD22	3:DV:44:ILE:HG22	1.66	0.58
1:A4:120:GLN:O	1:A5:42:THR:HG21	2.04	0.58
1:AB:112:PRO:HG3	3:D9:223:PRO:HD3	212.71	0.58
1:BI:112:PRO:HG3	3:EA:223:PRO:HD3	1.85	0.58
1:A5:102:VAL:HG22	1:A5:199:SER:CB	2.30	0.58
1:AT:112:PRO:HG3	3:DV:223:PRO:HD3	1.85	0.58
1:AF:173:GLY:HA3	2:CF:188:LEU:O	2.03	0.58
2:C5:52:THR:HG23	2:CF:55:GLY:HA3	1.84	0.58
2:C6:52:THR:HG23	2:CD:55:GLY:HA3	1.84	0.58
2:CI:55:GLY:HA3	2:CW:52:THR:HG23	1.84	0.58
2:CF:73:GLN:NE2	2:CF:73:GLN:HA	2.17	0.58
2:CM:153:GLN:NE2	3:DM:55:SER:HB2	2.19	0.58
1:AG:218:MET:HB3	3:DG:40:PHE:CE1	2.39	0.58
1:AI:218:MET:HB3	3:DK:40:PHE:CE1	245.25	0.58
1:AO:218:MET:HB3	3:DS:40:PHE:CE1	115.01	0.58
1:AN:218:MET:HB3	3:DB:40:PHE:CE1	189.34	0.58
1:A5:218:MET:HB3	3:D6:40:PHE:CE1	2.39	0.58
1:AY:218:MET:HB3	3:DZ:40:PHE:CE1	2.39	0.58
1:A1:218:MET:HB3	3:D2:40:PHE:CE1	2.39	0.58
1:BE:173:GLY:HA3	2:CT:188:LEU:O	210.44	0.58
3:DV:56:ILE:N	3:DV:56:ILE:HD12	2.17	0.58
2:CL:223:ASN:H	2:CL:223:ASN:ND2	2.01	0.58
1:AN:178:THR:O	1:AN:180:GLU:N	2.36	0.58
1:AD:178:THR:O	1:AD:180:GLU:N	2.36	0.58
3:D0:94:SER:HB3	3:D0:169:VAL:HG13	1.85	0.58
2:CS:98:VAL:HG12	2:CS:98:VAL:O	2.04	0.58
3:D9:80:LEU:HD12	3:D9:80:LEU:N	2.18	0.58
2:CL:98:VAL:HG12	2:CL:98:VAL:O	2.04	0.58
2:CX:98:VAL:O	2:CX:98:VAL:HG12	2.04	0.58
2:CP:98:VAL:HG12	2:CP:98:VAL:O	2.04	0.58
3:EC:94:SER:HB3	3:EC:169:VAL:HG13	1.85	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:CW:63:THR:N	3:DJ:139:MET:HG3	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:115:ASN:OD1	3:DD:119:LYS:HD2	157.66	0.58
2:CT:115:ASN:OD1	3:DH:119:LYS:HD2	224.53	0.58
2:CU:115:ASN:HA	3:DG:119:LYS:CE	245.82	0.58
2:CU:115:ASN:OD1	3:D5:119:LYS:HD2	256.39	0.58
2:CU:63:THR:N	3:D5:139:MET:HG3	252.63	0.58
2:CO:63:THR:N	3:DR:139:MET:HG3	136.44	0.58
2:CX:115:ASN:C	3:DO:119:LYS:HZ2	217.12	0.58
2:CX:115:ASN:HA	3:DR:119:LYS:CE	153.43	0.58
2:CQ:63:THR:N	3:DY:139:MET:HG3	123.04	0.58
2:C6:115:ASN:OD1	3:DE:119:LYS:HD2	2.03	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
1:AF:156:PHE:CD2	3:DF:25:LEU:HD12	2.38	0.58
1:AP:84:LEU:O	1:AP:155:GLY:HA2	2.04	0.58
1:AB:156:PHE:CD2	3:DD:25:LEU:HD12	38.39	0.58
1:AD:112:PRO:HG3	3:DE:223:PRO:HD3	1.85	0.58
1:AF:112:PRO:HG3	3:DG:223:PRO:HD3	1.85	0.58
1:A5:206:GLY:O	1:A5:207:CYS:SG	2.62	0.58
1:A0:42:THR:HG21	1:AZ:120:GLN:O	2.04	0.58
1:AY:156:PHE:CD2	3:DZ:25:LEU:HD12	2.38	0.58
1:AX:112:PRO:HG3	3:DU:223:PRO:HD3	1.85	0.58
1:AU:173:GLY:HA3	2:CV:188:LEU:O	2.02	0.58
1:AM:173:GLY:HA3	2:CM:188:LEU:O	2.02	0.58
2:CB:55:GLY:HA3	2:CE:52:THR:HG23	118.67	0.58
2:C0:52:THR:HG23	2:CP:55:GLY:HA3	1.84	0.58
2:CG:73:GLN:NE2	2:CG:73:GLN:HA	2.17	0.58
2:CS:73:GLN:HA	2:CS:73:GLN:NE2	2.17	0.58
2:CA:153:GLN:NE2	3:DA:55:SER:HB2	2.20	0.58
1:AB:218:MET:HB3	3:DB:40:PHE:CE1	2.39	0.58
1:BC:218:MET:HB3	3:DR:40:PHE:CE1	137.34	0.58
1:BE:218:MET:HB3	3:EA:40:PHE:CE1	2.39	0.58
3:DX:56:ILE:N	3:DX:56:ILE:HD12	2.18	0.58
2:CV:223:ASN:ND2	2:CV:223:ASN:H	2.01	0.58
1:AO:136:ALA:H	1:AS:39:ASP:HB2	106.18	0.58
1:A8:178:THR:O	1:A8:180:GLU:N	2.36	0.58
3:DB:94:SER:HB3	3:DB:169:VAL:HG13	1.85	0.58
1:A2:178:THR:O	1:A2:180:GLU:N	2.36	0.58
1:BE:178:THR:O	1:BE:180:GLU:N	2.36	0.58
2:CA:98:VAL:O	2:CA:98:VAL:HG12	2.04	0.58
2:CV:98:VAL:O	2:CV:98:VAL:HG12	2.04	0.58
2:C9:36:TYR:HE2	2:C9:130:PRO:CG	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D5:94:SER:HB3	3:D5:169:VAL:HG13	1.85	0.58
2:CI:115:ASN:C	3:DX:119:LYS:HZ3	2.07	0.57
2:CI:115:ASN:OD1	3:DJ:119:LYS:HD2	65.60	0.57
2:CH:115:ASN:HA	3:DN:119:LYS:CE	255.69	0.57
2:CV:115:ASN:HA	3:DD:119:LYS:CE	148.91	0.57
2:CV:115:ASN:OD1	3:DD:119:LYS:HD2	146.36	0.57
2:CM:115:ASN:C	3:DI:119:LYS:HZ3	259.51	0.57
2:CU:63:THR:N	3:DG:139:MET:HG3	230.09	0.57
2:C5:63:THR:N	3:DG:139:MET:HG3	2.19	0.57
2:CG:63:THR:N	3:D3:139:MET:HG3	252.64	0.57
2:C9:115:ASN:OD1	3:DL:119:LYS:HD2	89.32	0.57
2:CN:63:THR:N	3:DE:139:MET:HG3	252.14	0.57
2:CY:63:THR:N	3:DZ:139:MET:HG3	2.19	0.57
2:CB:115:ASN:HA	3:DT:119:LYS:CE	255.68	0.57
2:CS:115:ASN:OD1	3:DC:119:LYS:HD2	256.14	0.57
2:CP:115:ASN:OD1	3:D1:119:LYS:HD2	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:AC:40:VAL:O	1:AC:41:GLU:HB2	2.03	0.57
1:AH:206:GLY:O	1:AH:207:CYS:SG	2.62	0.57
1:AA:42:THR:HG21	1:AN:120:GLN:O	268.56	0.57
1:AM:120:GLN:O	1:AN:42:THR:HG21	2.04	0.57
1:AK:42:THR:HG21	1:AO:120:GLN:O	2.04	0.57
1:AS:84:LEU:O	1:AS:155:GLY:HA2	2.04	0.57
1:BC:84:LEU:O	1:BC:155:GLY:HA2	2.04	0.57
1:BI:84:LEU:O	1:BI:155:GLY:HA2	2.03	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:DY:17:SER:O	3:DY:19:PRO:HD3	2.03	0.57
1:A4:84:LEU:O	1:A4:155:GLY:HA2	2.04	0.57
1:BD:112:PRO:HG3	3:DO:223:PRO:HD3	212.71	0.57
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
3:D1:17:SER:O	3:D1:19:PRO:HD3	2.03	0.57
1:AE:173:GLY:HA3	2:CE:188:LEU:O	2.03	0.57
1:A3:173:GLY:HA3	2:C4:188:LEU:O	2.03	0.57
2:CO:55:GLY:HA3	2:CQ:52:THR:HG23	118.45	0.57
2:CQ:153:GLN:NE2	3:DQ:55:SER:HB2	2.19	0.57
2:CN:153:GLN:NE2	3:DN:55:SER:HB2	2.19	0.57
2:CU:153:GLN:NE2	3:EB:55:SER:HB2	249.44	0.57
2:CX:153:GLN:NE2	3:DX:55:SER:HB2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D3:53:PHE:CE2	3:D3:205:LEU:HB3	2.31	0.57
1:AU:218:MET:HB3	3:DV:40:PHE:CE1	2.39	0.57
1:BI:218:MET:HB3	3:EE:40:PHE:CE1	2.39	0.57
2:CH:35:CYS:O	2:CH:36:TYR:HB2	2.03	0.57
2:C7:35:CYS:O	2:C7:36:TYR:HB2	2.03	0.57
2:C9:35:CYS:O	2:C9:36:TYR:HB2	2.03	0.57
1:A3:178:THR:O	1:A3:180:GLU:N	2.36	0.57
2:CH:98:VAL:O	2:CH:98:VAL:HG12	2.04	0.57
2:CK:98:VAL:HG12	2:CK:98:VAL:O	2.04	0.57
3:DU:80:LEU:HD12	3:DU:80:LEU:N	2.18	0.57
2:CD:98:VAL:O	2:CD:98:VAL:HG12	2.04	0.57
2:C3:98:VAL:O	2:C3:98:VAL:HG12	2.04	0.57
2:C5:98:VAL:O	2:C5:98:VAL:HG12	2.04	0.57
2:CY:176:PRO:O	2:CY:192:TRP:NE1	2.36	0.57
2:CC:115:ASN:OD1	3:DN:119:LYS:HD2	157.66	0.57
2:CC:63:THR:N	3:DN:139:MET:HG3	156.15	0.57
2:CJ:115:ASN:OD1	3:DA:119:LYS:HD2	2.04	0.57
2:CK:115:ASN:OD1	3:DA:119:LYS:HD2	270.19	0.57
2:CX:115:ASN:OD1	3:DO:119:LYS:HD2	212.63	0.57
2:CX:63:THR:N	3:DR:139:MET:HG3	144.03	0.57
2:CQ:63:THR:N	3:DP:139:MET:HG3	120.08	0.57
2:CQ:115:ASN:OD1	3:DY:119:LYS:HD2	110.38	0.57
2:C0:115:ASN:CA	3:DQ:119:LYS:HD2	2.31	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:CF:63:THR:N	3:DV:139:MET:HG3	196.11	0.57
1:A9:206:GLY:O	1:A9:207:CYS:SG	2.62	0.57
1:A9:40:VAL:O	1:A9:41:GLU:HB2	2.03	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:AG:40:VAL:O	1:AG:41:GLU:HB2	2.03	0.57
1:AJ:206:GLY:O	1:AJ:207:CYS:SG	2.63	0.57
1:AM:206:GLY:O	1:AM:207:CYS:SG	2.63	0.57
1:AP:206:GLY:O	1:AP:207:CYS:SG	2.63	0.57
1:AP:121:LEU:CD2	1:AQ:207:CYS:H	2.12	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:BB:84:LEU:O	1:BB:155:GLY:HA2	2.04	0.57
1:BE:120:GLN:O	1:BF:42:THR:HG21	2.04	0.57
1:BE:40:VAL:O	1:BE:41:GLU:HB2	2.03	0.57
1:BG:84:LEU:O	1:BG:155:GLY:HA2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:156:PHE:CD2	3:DG:25:LEU:HD12	137.35	0.57
1:AG:156:PHE:CD2	3:DG:25:LEU:HD12	2.38	0.57
3:D6:42:ASN:HD22	3:D6:44:ILE:HG22	1.65	0.57
3:DT:42:ASN:HD22	3:DT:44:ILE:HG22	1.65	0.57
1:BG:102:VAL:HG22	1:BG:199:SER:CB	2.30	0.57
1:BH:40:VAL:O	1:BH:41:GLU:HB2	2.03	0.57
1:AI:112:PRO:HG3	3:DJ:223:PRO:HD3	1.85	0.57
1:A2:206:GLY:O	1:A2:207:CYS:SG	2.63	0.57
3:D8:17:SER:O	3:D8:19:PRO:HD3	2.03	0.57
1:BG:112:PRO:HG3	3:ED:223:PRO:HD3	1.85	0.57
1:AG:173:GLY:HA3	2:CI:188:LEU:O	101.53	0.57
2:C3:52:THR:HG23	2:CY:55:GLY:HA3	1.84	0.57
2:CF:153:GLN:NE2	3:DF:55:SER:HB2	2.19	0.57
1:AC:218:MET:HB3	3:DE:40:PHE:CE1	71.93	0.57
2:CK:153:GLN:NE2	3:DK:55:SER:HB2	2.19	0.57
1:AF:218:MET:HB3	3:DF:40:PHE:CE1	2.39	0.57
2:C0:153:GLN:NE2	3:D0:55:SER:HB2	2.20	0.57
2:C0:35:CYS:O	2:C0:36:TYR:HB2	2.03	0.57
1:A9:178:THR:O	1:A9:180:GLU:N	2.36	0.57
1:BA:178:THR:O	1:BA:180:GLU:N	2.36	0.57
3:DK:94:SER:HB3	3:DK:169:VAL:HG13	1.85	0.57
2:CJ:115:ASN:HA	3:DA:119:LYS:CE	2.33	0.57
2:CJ:63:THR:N	3:DA:139:MET:HG3	2.19	0.57
2:CK:115:ASN:OD1	3:DB:119:LYS:HD2	256.39	0.57
2:CM:115:ASN:HA	3:DD:119:LYS:CE	159.27	0.57
2:C2:63:THR:N	3:DH:139:MET:HG3	252.63	0.57
2:CU:115:ASN:HA	3:D5:119:LYS:CE	254.59	0.57
2:CD:115:ASN:OD1	3:D7:119:LYS:HD2	2.03	0.57
2:CD:63:THR:N	3:D7:139:MET:HG3	2.19	0.57
2:CO:115:ASN:C	3:DR:119:LYS:HZ3	151.65	0.57
2:CZ:115:ASN:HA	3:DQ:119:LYS:CE	88.60	0.57
2:C0:115:ASN:OD1	3:DQ:119:LYS:HD2	2.04	0.57
2:CN:115:ASN:HA	3:DE:119:LYS:CE	255.93	0.57
2:CN:115:ASN:OD1	3:D2:119:LYS:HD2	2.03	0.57
2:CY:115:ASN:OD1	3:DZ:119:LYS:HD2	2.03	0.57
2:CB:63:THR:N	3:DF:139:MET:HG3	134.79	0.57
2:CS:63:THR:N	3:EA:139:MET:HG3	154.66	0.57
2:CF:115:ASN:HA	3:DV:119:LYS:CE	177.74	0.57
1:AO:206:GLY:O	1:AO:207:CYS:SG	2.63	0.57
1:AO:42:THR:HG21	1:AR:120:GLN:O	138.64	0.57
1:AS:40:VAL:O	1:AS:41:GLU:HB2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:120:GLN:O	1:BI:42:THR:HG21	2.04	0.57
1:BI:40:VAL:O	1:BI:41:GLU:HB2	2.03	0.57
3:DR:17:SER:O	3:DR:19:PRO:HD3	2.03	0.57
1:AV:156:PHE:CD2	3:DW:25:LEU:HD12	2.38	0.57
1:A3:84:LEU:O	1:A3:155:GLY:HA2	2.04	0.57
1:AC:112:PRO:HG3	3:DF:223:PRO:HD3	132.12	0.57
1:AY:120:GLN:O	1:AZ:42:THR:HG21	2.04	0.57
1:AY:84:LEU:O	1:AY:155:GLY:HA2	2.04	0.57
1:AZ:84:LEU:O	1:AZ:155:GLY:HA2	2.04	0.57
1:AY:112:PRO:HG3	3:D0:223:PRO:HD3	1.85	0.57
1:A7:112:PRO:HG3	3:D4:223:PRO:HD3	1.85	0.57
1:BF:112:PRO:HG3	3:EC:223:PRO:HD3	1.85	0.57
2:CN:73:GLN:NE2	2:CN:73:GLN:HA	2.17	0.57
2:CJ:153:GLN:NE2	3:DJ:55:SER:HB2	2.20	0.57
2:CT:153:GLN:NE2	3:EA:55:SER:HB2	189.93	0.57
1:AG:218:MET:HB3	3:DI:40:PHE:CE1	71.93	0.57
2:CR:153:GLN:NE2	3:DR:55:SER:HB2	2.20	0.57
2:CS:153:GLN:NE2	3:DS:55:SER:HB2	2.19	0.57
2:CO:153:GLN:NE2	3:DO:55:SER:HB2	2.19	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
1:AZ:218:MET:HB3	3:D0:40:PHE:CE1	2.39	0.57
2:CJ:223:ASN:H	2:CJ:223:ASN:ND2	2.01	0.57
2:C5:223:ASN:H	2:C5:223:ASN:ND2	2.01	0.57
2:C2:223:ASN:ND2	2:C2:223:ASN:H	2.01	0.57
2:C6:35:CYS:O	2:C6:36:TYR:HB2	2.03	0.57
1:AQ:178:THR:O	1:AQ:180:GLU:N	2.36	0.57
2:CA:35:CYS:O	2:CA:36:TYR:HB2	2.03	0.57
1:BH:136:ALA:H	1:BI:39:ASP:HB2	1.67	0.57
3:DT:94:SER:HB3	3:DT:169:VAL:HG13	1.85	0.57
2:C7:176:PRO:O	2:C7:192:TRP:NE1	2.36	0.57
1:BG:178:THR:O	1:BG:180:GLU:N	2.36	0.57
2:CJ:98:VAL:HG12	2:CJ:98:VAL:O	2.04	0.57
2:CC:115:ASN:OD1	3:ED:119:LYS:HD2	245.60	0.57
2:CH:63:THR:N	3:DN:139:MET:HG3	253.32	0.57
2:CI:63:THR:N	3:DX:139:MET:HG3	2.19	0.57
2:CR:115:ASN:CA	3:DI:119:LYS:HD2	158.62	0.57
2:CV:115:ASN:CA	3:DD:119:LYS:HD2	148.89	0.57
2:CL:115:ASN:OD1	3:D8:119:LYS:HD2	110.38	0.57
2:C2:115:ASN:OD1	3:DH:119:LYS:HD2	256.39	0.57
2:CT:115:ASN:CA	3:DH:119:LYS:HD2	223.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CO:115:ASN:HA	3:DP:119:LYS:CE	2.33	0.57
2:C0:63:THR:N	3:DQ:139:MET:HG3	2.19	0.57
2:CZ:115:ASN:OD1	3:DQ:119:LYS:HD2	89.32	0.57
2:CE:115:ASN:OD1	3:DC:119:LYS:HD2	153.23	0.57
2:CF:115:ASN:CA	3:D6:119:LYS:HD2	2.31	0.57
2:CF:115:ASN:OD1	3:DV:119:LYS:HD2	180.91	0.57
2:C4:63:THR:N	3:EC:139:MET:HG3	2.19	0.57
1:AK:206:GLY:O	1:AK:207:CYS:SG	2.63	0.57
1:AS:206:GLY:O	1:AS:207:CYS:SG	2.63	0.57
1:AT:102:VAL:HG22	1:AT:199:SER:CB	2.30	0.57
1:AT:42:THR:HG21	1:AX:120:GLN:O	2.04	0.57
1:BB:40:VAL:O	1:BB:41:GLU:HB2	2.03	0.57
1:AF:112:PRO:HG3	3:DI:223:PRO:HD3	72.24	0.57
2:CI:52:THR:HG23	2:CW:55:GLY:HA3	1.84	0.57
2:CY:153:GLN:NE2	3:DY:55:SER:HB2	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
3:DA:61:TYR:HB3	3:DA:205:LEU:HD23	1.87	0.57
3:DK:61:TYR:HB3	3:DK:205:LEU:HD23	1.87	0.57
1:AH:218:MET:HB3	3:DH:40:PHE:CE1	2.39	0.57
2:CB:153:GLN:NE2	3:DB:55:SER:HB2	2.20	0.57
1:A8:218:MET:HB3	3:D9:40:PHE:CE1	2.39	0.57
2:CE:223:ASN:ND2	2:CE:223:ASN:H	2.01	0.57
2:CQ:223:ASN:ND2	2:CQ:223:ASN:H	2.01	0.57
2:CW:98:VAL:HG12	2:CW:98:VAL:O	2.04	0.57
2:CM:63:THR:N	3:DD:139:MET:HG3	156.15	0.57
2:CR:115:ASN:OD1	3:DI:119:LYS:HD2	157.65	0.57
2:CT:63:THR:N	3:DK:139:MET:HG3	2.19	0.57
2:CL:115:ASN:CA	3:DK:119:LYS:HD2	110.51	0.57
2:C5:115:ASN:OD1	3:DG:119:LYS:HD2	2.04	0.57
2:CD:63:THR:N	3:D4:139:MET:HG3	136.44	0.57
2:C3:115:ASN:HA	3:DU:119:LYS:CE	2.33	0.57
2:CS:115:ASN:HA	3:EA:119:LYS:CE	158.42	0.57
2:C4:115:ASN:HA	3:EC:119:LYS:CE	2.33	0.57
1:AC:206:GLY:O	1:AC:207:CYS:SG	2.63	0.57
1:AD:206:GLY:O	1:AD:207:CYS:SG	2.62	0.57
1:AC:121:LEU:CD2	1:AD:207:CYS:H	2.12	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:AL:206:GLY:O	1:AL:207:CYS:SG	2.62	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:121:LEU:CD2	1:AO:207:CYS:H	2.12	0.57
1:AO:120:GLN:O	1:AS:42:THR:HG21	113.03	0.57
1:AM:121:LEU:CD2	1:BA:207:CYS:H	227.03	0.57
3:DO:17:SER:O	3:DO:19:PRO:HD3	2.03	0.57
1:BD:156:PHE:CD2	3:DS:25:LEU:HD12	146.36	0.57
3:DL:42:ASN:HD22	3:DL:44:ILE:HG22	1.65	0.57
1:AU:120:GLN:O	1:AV:42:THR:HG21	2.04	0.57
1:BH:206:GLY:O	1:BH:207:CYS:SG	2.62	0.57
1:A4:206:GLY:O	1:A4:207:CYS:SG	2.63	0.57
1:AE:112:PRO:HG3	3:DH:223:PRO:HD3	147.91	0.57
1:AV:112:PRO:HG3	3:DX:223:PRO:HD3	1.85	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:BA:112:PRO:HG3	3:DQ:223:PRO:HD3	121.93	0.57
1:AI:218:MET:HB3	3:DI:40:PHE:CE1	2.39	0.57
1:A9:218:MET:HB3	3:DA:40:PHE:CE1	225.60	0.57
1:AC:218:MET:HB3	3:DC:40:PHE:CE1	2.39	0.57
2:CE:153:GLN:NE2	3:DE:55:SER:HB2	2.19	0.57
2:C1:153:GLN:NE2	3:D1:55:SER:HB2	2.20	0.57
1:AR:218:MET:HB3	3:DR:40:PHE:CE1	2.39	0.57
1:AZ:86:ILE:CD1	1:AZ:86:ILE:N	2.65	0.57
2:C1:35:CYS:O	2:C1:36:TYR:HB2	2.03	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
3:DW:94:SER:HB3	3:DW:169:VAL:HG13	1.85	0.57
2:CM:98:VAL:HG12	2:CM:98:VAL:O	2.04	0.57
2:CY:98:VAL:HG12	2:CY:98:VAL:O	2.04	0.57
2:C8:63:THR:N	3:D9:139:MET:HG3	2.19	0.57
2:CV:63:THR:N	3:DD:139:MET:HG3	136.44	0.57
2:CT:115:ASN:OD1	3:DK:119:LYS:HD2	2.04	0.57
2:CT:63:THR:N	3:DH:139:MET:HG3	224.45	0.57
2:CZ:63:THR:N	3:DQ:139:MET:HG3	84.77	0.57
2:C9:115:ASN:HA	3:DL:119:LYS:CE	88.60	0.57
2:CB:63:THR:N	3:DT:139:MET:HG3	253.32	0.57
2:CP:115:ASN:HA	3:D0:119:LYS:CE	90.24	0.57
1:AA:207:CYS:H	1:AN:121:LEU:CD2	264.18	0.57
1:AX:84:LEU:O	1:AX:155:GLY:HA2	2.03	0.57
1:BA:102:VAL:HG22	1:BA:199:SER:CB	2.31	0.57
1:BC:120:GLN:O	1:BD:42:THR:HG21	2.04	0.57
3:DQ:42:ASN:HD22	3:DQ:44:ILE:HG22	1.66	0.57
1:A3:120:GLN:O	1:A4:42:THR:HG21	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:112:PRO:HG3	3:D8:223:PRO:HD3	1.85	0.57
1:A1:112:PRO:HG3	3:D3:223:PRO:HD3	1.85	0.57
2:CM:209:VAL:N	2:CM:210:PRO:CD	2.68	0.57
1:AN:103:TRP:HZ2	1:AO:208:TYR:CE2	2.23	0.57
2:CO:73:GLN:NE2	2:CO:73:GLN:HA	2.17	0.57
3:DP:61:TYR:HB3	3:DP:205:LEU:HD23	1.87	0.57
3:DF:61:TYR:HB3	3:DF:205:LEU:HD23	1.87	0.57
2:CG:153:GLN:NE2	3:DG:55:SER:HB2	2.19	0.57
1:AE:218:MET:HB3	3:DG:40:PHE:CE1	114.45	0.57
2:CW:153:GLN:NE2	3:DW:55:SER:HB2	2.19	0.57
1:AH:218:MET:HB3	3:DJ:40:PHE:CE1	71.93	0.57
3:DC:61:TYR:HB3	3:DC:205:LEU:HD23	1.87	0.57
1:BF:218:MET:HB3	3:EB:40:PHE:CE1	2.39	0.57
2:C8:153:GLN:NE2	3:D8:55:SER:HB2	2.19	0.57
1:AX:218:MET:HB3	3:DY:40:PHE:CE1	2.39	0.57
1:BB:173:GLY:HA3	2:CQ:188:LEU:O	130.96	0.57
2:C3:223:ASN:H	2:C3:223:ASN:ND2	2.01	0.57
1:AY:178:THR:O	1:AY:180:GLU:N	2.36	0.57
2:CR:63:THR:N	3:DI:139:MET:HG3	156.15	0.57
2:CR:115:ASN:OD1	3:EE:119:LYS:HD2	2.04	0.57
2:CU:115:ASN:C	3:DG:119:LYS:HZ3	249.30	0.57
2:C1:115:ASN:OD1	3:DO:119:LYS:HD2	2.04	0.57
2:CG:115:ASN:HA	3:D3:119:LYS:CE	254.59	0.57
2:CN:115:ASN:C	3:DE:119:LYS:HZ3	259.12	0.57
2:CE:63:THR:N	3:DC:139:MET:HG3	141.08	0.57
2:CE:63:THR:N	3:DF:139:MET:HG3	2.19	0.57
2:CP:115:ASN:OD1	3:D0:119:LYS:HD2	91.07	0.57
2:CF:115:ASN:OD1	3:D6:119:LYS:HD2	2.04	0.57
1:A8:84:LEU:O	1:A8:155:GLY:HA2	2.03	0.57
1:AN:84:LEU:O	1:AN:155:GLY:HA2	2.04	0.57
1:A7:40:VAL:O	1:A7:41:GLU:HB2	2.03	0.57
1:AB:112:PRO:HG3	3:DC:223:PRO:HD3	1.85	0.57
1:AQ:103:TRP:HZ2	1:AR:208:TYR:CE2	2.23	0.57
2:CH:153:GLN:NE2	3:DH:55:SER:HB2	2.19	0.57
3:DN:61:TYR:HB3	3:DN:205:LEU:HD23	1.87	0.57
3:DL:61:TYR:HB3	3:DL:205:LEU:HD23	1.87	0.57
3:DG:61:TYR:HB3	3:DG:205:LEU:HD23	1.87	0.57
2:CW:153:GLN:NE2	3:ED:55:SER:HB2	253.59	0.57
1:AJ:218:MET:HB3	3:DJ:40:PHE:CE1	2.39	0.57
3:DD:61:TYR:HB3	3:DD:205:LEU:HD23	1.87	0.57
1:AV:30:VAL:HG13	1:AV:218:MET:HE2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:30:VAL:HG13	1:AU:218:MET:HE2	1.86	0.57
2:C7:223:ASN:ND2	2:C7:223:ASN:H	2.01	0.57
2:C1:223:ASN:ND2	2:C1:223:ASN:H	2.01	0.57
2:CI:98:VAL:O	2:CI:98:VAL:HG12	2.04	0.57
2:CN:98:VAL:HG12	2:CN:98:VAL:O	2.04	0.57
2:CL:63:THR:N	3:D8:139:MET:HG3	123.04	0.57
2:CQ:115:ASN:C	3:DP:119:LYS:HZ3	109.74	0.57
2:C9:63:THR:N	3:DL:139:MET:HG3	84.78	0.57
2:CP:63:THR:N	3:D0:139:MET:HG3	85.06	0.57
2:CF:63:THR:N	3:D6:139:MET:HG3	2.19	0.57
1:A9:121:LEU:CD2	1:AN:207:CYS:H	158.70	0.57
1:AR:206:GLY:O	1:AR:207:CYS:SG	2.63	0.57
1:AW:120:GLN:O	1:AX:42:THR:HG21	2.04	0.57
1:BF:206:GLY:O	1:BF:207:CYS:SG	2.62	0.57
1:BB:156:PHE:CD2	3:DQ:25:LEU:HD12	136.32	0.57
1:A6:120:GLN:O	1:A7:42:THR:HG21	2.04	0.57
1:AV:206:GLY:O	1:AV:207:CYS:SG	2.62	0.57
1:A0:120:GLN:O	1:A1:42:THR:HG21	2.04	0.57
1:A5:112:PRO:HG3	3:D7:223:PRO:HD3	1.85	0.57
1:A6:206:GLY:O	1:A6:207:CYS:SG	2.62	0.57
2:CN:209:VAL:N	2:CN:210:PRO:CD	2.68	0.57
2:CT:209:VAL:N	2:CT:210:PRO:CD	2.68	0.57
2:CA:209:VAL:N	2:CA:210:PRO:CD	2.68	0.57
1:AC:208:TYR:CE2	1:AG:103:TRP:HZ2	186.78	0.57
1:AP:103:TRP:HZ2	1:AQ:208:TYR:CE2	2.23	0.57
1:A3:103:TRP:HZ2	1:A4:208:TYR:CE2	2.23	0.57
1:A2:103:TRP:HZ2	1:AY:208:TYR:CE2	2.23	0.57
2:CW:73:GLN:HA	2:CW:73:GLN:NE2	2.17	0.57
3:EB:61:TYR:HB3	3:EB:205:LEU:HD23	1.87	0.57
3:DJ:61:TYR:HB3	3:DJ:205:LEU:HD23	1.87	0.57
3:DT:61:TYR:HB3	3:DT:205:LEU:HD23	1.87	0.57
2:CT:153:GLN:NE2	3:DT:55:SER:HB2	2.20	0.57
2:C5:153:GLN:NE2	3:D5:55:SER:HB2	2.19	0.57
3:DO:61:TYR:HB3	3:DO:205:LEU:HD23	1.87	0.57
1:AQ:218:MET:HB3	3:DQ:40:PHE:CE1	2.39	0.57
1:BB:218:MET:HB3	3:DQ:40:PHE:CE1	114.94	0.57
2:C0:223:ASN:H	2:C0:223:ASN:ND2	2.01	0.57
2:CZ:98:VAL:HG12	2:CZ:98:VAL:O	2.04	0.57
2:C4:98:VAL:O	2:C4:98:VAL:HG12	2.04	0.57
2:CV:63:THR:N	3:DB:139:MET:HG3	2.19	0.57
2:C2:115:ASN:HA	3:DH:119:LYS:CE	254.59	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:115:ASN:OD1	3:EB:119:LYS:HD2	2.03	0.57
2:C3:63:THR:N	3:DU:139:MET:HG3	2.19	0.57
2:CS:63:THR:N	3:DC:139:MET:HG3	253.32	0.57
1:AA:42:THR:HG21	1:AE:120:GLN:O	2.04	0.57
1:AB:206:GLY:O	1:AB:207:CYS:SG	2.63	0.57
1:AD:120:GLN:O	1:AE:42:THR:HG21	2.04	0.57
1:AG:206:GLY:O	1:AG:207:CYS:SG	2.63	0.57
1:AW:121:LEU:CD2	1:AX:207:CYS:H	2.12	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:A5:84:LEU:O	1:A5:155:GLY:HA2	2.04	0.57
1:AY:206:GLY:O	1:AY:207:CYS:SG	2.63	0.57
1:AZ:206:GLY:O	1:AZ:207:CYS:SG	2.63	0.57
1:AZ:112:PRO:HG3	3:D1:223:PRO:HD3	1.85	0.57
2:C9:209:VAL:N	2:C9:210:PRO:CD	2.68	0.57
2:C5:209:VAL:N	2:C5:210:PRO:CD	2.68	0.57
1:AF:208:TYR:CE2	1:AJ:103:TRP:HZ2	2.23	0.57
1:AM:103:TRP:HZ2	1:BA:208:TYR:CE2	227.25	0.57
1:A4:103:TRP:HZ2	1:A5:208:TYR:CE2	2.23	0.57
3:DY:61:TYR:HB3	3:DY:205:LEU:HD23	1.87	0.57
3:DI:61:TYR:HB3	3:DI:205:LEU:HD23	1.87	0.57
1:AE:218:MET:HB3	3:DE:40:PHE:CE1	2.39	0.57
1:AK:218:MET:HB3	3:DM:40:PHE:CE1	71.93	0.57
1:AA:218:MET:HB3	3:DA:40:PHE:CE1	2.39	0.57
3:DR:61:TYR:HB3	3:DR:205:LEU:HD23	1.87	0.57
2:C9:153:GLN:NE2	3:D9:55:SER:HB2	2.19	0.57
1:BH:218:MET:HB3	3:ED:40:PHE:CE1	2.39	0.57
1:AS:218:MET:HB3	3:DT:40:PHE:CE1	2.39	0.57
1:AK:165:ARG:O	3:DK:34:ARG:HG2	2.05	0.57
3:D7:99:GLN:HB2	3:D7:217:ARG:HG3	1.87	0.57
3:DO:99:GLN:HB2	3:DO:217:ARG:HG3	1.87	0.57
3:DJ:99:GLN:HB2	3:DJ:217:ARG:HG3	1.87	0.57
2:C9:98:VAL:HG12	2:C9:98:VAL:O	2.04	0.57
2:CK:63:THR:N	3:DB:139:MET:HG3	252.63	0.57
2:CV:115:ASN:OD1	3:DB:119:LYS:HD2	2.04	0.57
2:CX:115:ASN:CA	3:DR:119:LYS:HD2	153.43	0.57
2:CG:63:THR:HG22	3:EB:188:LEU:HD21	1.87	0.57
1:AQ:206:GLY:O	1:AQ:207:CYS:SG	2.62	0.57
1:AX:206:GLY:O	1:AX:207:CYS:SG	2.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:206:GLY:O	1:BE:207:CYS:SG	2.63	0.57
1:BG:206:GLY:O	1:BG:207:CYS:SG	2.62	0.57
3:D8:42:ASN:HD22	3:D8:44:ILE:HG22	1.65	0.57
1:A3:206:GLY:O	1:A3:207:CYS:SG	2.63	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
2:C6:209:VAL:N	2:C6:210:PRO:CD	2.68	0.57
1:AB:103:TRP:HZ2	1:AC:208:TYR:CE2	2.23	0.57
1:AH:208:TYR:CE2	1:AL:103:TRP:HZ2	287.08	0.57
1:AM:208:TYR:CE2	1:BD:103:TRP:HZ2	249.91	0.57
1:AT:103:TRP:HZ2	1:AU:208:TYR:CE2	2.23	0.57
1:AA:208:TYR:CE2	1:AE:103:TRP:HZ2	2.23	0.57
1:BE:208:TYR:CE2	1:BI:103:TRP:HZ2	2.23	0.57
1:A0:103:TRP:HZ2	1:A1:208:TYR:CE2	2.23	0.57
1:A9:103:TRP:HZ2	1:AN:208:TYR:CE2	154.58	0.57
1:AV:103:TRP:HZ2	1:AW:208:TYR:CE2	2.23	0.57
2:CM:73:GLN:NE2	2:CM:73:GLN:HA	2.17	0.57
3:DM:61:TYR:HB3	3:DM:205:LEU:HD23	1.87	0.57
3:DH:61:TYR:HB3	3:DH:205:LEU:HD23	1.87	0.57
2:CV:153:GLN:NE2	3:EC:55:SER:HB2	263.27	0.57
1:AK:218:MET:HB3	3:DK:40:PHE:CE1	2.39	0.57
1:BD:218:MET:HB3	3:DS:40:PHE:CE1	142.15	0.57
2:CZ:153:GLN:NE2	3:DZ:55:SER:HB2	2.19	0.57
3:DS:61:TYR:HB3	3:DS:205:LEU:HD23	1.87	0.57
2:C6:153:GLN:NE2	3:D6:55:SER:HB2	2.19	0.57
3:D8:61:TYR:HB3	3:D8:205:LEU:HD23	1.87	0.57
1:AH:165:ARG:O	3:DH:34:ARG:HG2	2.05	0.57
1:AC:165:ARG:O	3:DC:34:ARG:HG2	2.05	0.57
1:AI:165:ARG:O	3:DI:34:ARG:HG2	2.05	0.57
1:AM:165:ARG:O	3:DM:34:ARG:HG2	2.05	0.57
1:BA:165:ARG:O	3:DP:34:ARG:HG2	102.63	0.57
1:AU:165:ARG:O	3:DV:34:ARG:HG2	2.05	0.57
1:AY:165:ARG:O	3:DZ:34:ARG:HG2	2.05	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
2:C7:98:VAL:HG12	2:C7:98:VAL:O	2.04	0.57
2:CW:63:THR:N	3:DS:139:MET:HG3	231.22	0.56
2:CK:63:THR:N	3:DA:139:MET:HG3	260.82	0.56
2:CM:63:THR:HG22	3:DI:188:LEU:HD21	254.62	0.56
2:CO:63:THR:N	3:DP:139:MET:HG3	2.19	0.56
2:CX:63:THR:N	3:DO:139:MET:HG3	200.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:63:THR:N	3:DW:139:MET:HG3	2.19	0.56
2:CS:115:ASN:CA	3:EA:119:LYS:HD2	158.00	0.56
2:C4:115:ASN:CA	3:EC:119:LYS:HD2	2.31	0.56
1:BI:206:GLY:O	1:BI:207:CYS:SG	2.63	0.56
1:AE:103:TRP:HZ2	1:AF:208:TYR:CE2	122.78	0.56
1:AJ:103:TRP:HZ2	1:AK:208:TYR:CE2	285.75	0.56
1:A1:103:TRP:HZ2	1:A2:208:TYR:CE2	2.23	0.56
1:AW:103:TRP:HZ2	1:AX:208:TYR:CE2	2.23	0.56
3:DZ:61:TYR:HB3	3:DZ:205:LEU:HD23	1.87	0.56
1:AL:218:MET:HB3	3:DN:40:PHE:CE1	71.93	0.56
1:AW:218:MET:HB3	3:DX:40:PHE:CE1	2.39	0.56
2:CN:84:PRO:HD3	2:CN:108:TRP:HZ2	1.70	0.56
1:AD:165:ARG:O	3:DF:34:ARG:HG2	100.91	0.56
1:A9:165:ARG:O	3:DA:34:ARG:HG2	224.74	0.56
1:AO:165:ARG:O	3:DS:34:ARG:HG2	93.97	0.56
1:BH:165:ARG:O	3:ED:34:ARG:HG2	2.05	0.56
1:BE:165:ARG:O	3:EA:34:ARG:HG2	2.05	0.56
3:D8:99:GLN:HB2	3:D8:217:ARG:HG3	1.87	0.56
3:D1:99:GLN:HB2	3:D1:217:ARG:HG3	1.87	0.56
3:DM:99:GLN:HB2	3:DM:217:ARG:HG3	1.87	0.56
2:CP:36:TYR:HE2	2:CP:130:PRO:HG3	1.70	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
2:C0:98:VAL:O	2:C0:98:VAL:HG12	2.04	0.56
3:DQ:122:VAL:O	3:DQ:143:HIS:HB2	2.05	0.56
2:CC:63:THR:HG22	3:ED:188:LEU:HD21	236.95	0.56
2:CC:63:THR:N	3:ED:139:MET:HG3	231.22	0.56
2:C7:115:ASN:OD1	3:DM:119:LYS:HD2	150.91	0.56
2:CM:115:ASN:OD1	3:DI:119:LYS:HD2	256.14	0.56
2:CR:63:THR:N	3:EE:139:MET:HG3	2.19	0.56
2:CM:63:THR:N	3:DI:139:MET:HG3	253.32	0.56
2:CJ:63:THR:N	3:DM:139:MET:HG3	230.05	0.56
2:CL:115:ASN:CA	3:D8:119:LYS:HD2	112.66	0.56
2:CY:63:THR:HG22	3:DZ:188:LEU:HD21	1.87	0.56
2:CE:63:THR:HG22	3:DF:188:LEU:HD21	1.87	0.56
2:CP:63:THR:HG22	3:D0:188:LEU:HD21	85.68	0.56
2:CF:63:THR:HG22	3:D6:188:LEU:HD21	1.88	0.56
1:A8:206:GLY:O	1:A8:207:CYS:SG	2.62	0.56
1:A3:40:VAL:O	1:A3:41:GLU:HB2	2.03	0.56
1:A7:206:GLY:O	1:A7:207:CYS:SG	2.62	0.56
1:AO:112:PRO:HG3	3:DT:223:PRO:HD3	89.79	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:206:GLY:O	1:A0:207:CYS:SG	2.63	0.56
2:CR:209:VAL:N	2:CR:210:PRO:CD	2.68	0.56
1:BE:103:TRP:HZ2	1:BF:208:TYR:CE2	2.23	0.56
1:AC:103:TRP:HZ2	1:AD:208:TYR:CE2	2.23	0.56
1:AK:103:TRP:HZ2	1:AL:208:TYR:CE2	2.23	0.56
2:CC:73:GLN:NE2	2:CC:73:GLN:HA	2.17	0.56
2:CP:153:GLN:NE2	3:DP:55:SER:HB2	2.19	0.56
2:CV:153:GLN:NE2	3:DV:55:SER:HB2	2.19	0.56
2:CX:153:GLN:NE2	3:EE:55:SER:HB2	192.53	0.56
1:AO:218:MET:HB3	3:DO:40:PHE:CE1	2.39	0.56
3:DB:61:TYR:HB3	3:DB:205:LEU:HD23	1.87	0.56
1:AF:165:ARG:O	3:DF:34:ARG:HG2	2.05	0.56
1:AN:165:ARG:O	3:DB:34:ARG:HG2	188.51	0.56
1:AD:165:ARG:O	3:DD:34:ARG:HG2	2.05	0.56
1:AG:165:ARG:O	3:DI:34:ARG:HG2	70.31	0.56
1:AW:165:ARG:O	3:DX:34:ARG:HG2	2.05	0.56
1:A4:165:ARG:O	3:D5:34:ARG:HG2	2.05	0.56
3:ED:99:GLN:HB2	3:ED:217:ARG:HG3	1.87	0.56
3:D2:99:GLN:HB2	3:D2:217:ARG:HG3	1.87	0.56
3:DC:99:GLN:HB2	3:DC:217:ARG:HG3	1.87	0.56
3:D0:99:GLN:HB2	3:D0:217:ARG:HG3	1.87	0.56
3:DW:99:GLN:HB2	3:DW:217:ARG:HG3	1.87	0.56
2:CZ:223:ASN:H	2:CZ:223:ASN:ND2	2.01	0.56
3:EA:122:VAL:O	3:EA:143:HIS:HB2	2.05	0.56
3:D2:122:VAL:O	3:D2:143:HIS:HB2	2.05	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:ED:122:VAL:O	3:ED:143:HIS:HB2	2.05	0.56
2:C2:98:VAL:HG12	2:C2:98:VAL:O	2.04	0.56
2:CI:63:THR:N	3:DJ:139:MET:HG3	34.00	0.56
2:CH:63:THR:N	3:DS:139:MET:HG3	156.15	0.56
2:C7:63:THR:N	3:DM:139:MET:HG3	144.03	0.56
2:C1:63:THR:N	3:DO:139:MET:HG3	2.19	0.56
2:CL:63:THR:N	3:DK:139:MET:HG3	120.08	0.56
2:CB:63:THR:HG22	3:DF:188:LEU:HD21	137.96	0.56
1:BA:206:GLY:O	1:BA:207:CYS:SG	2.62	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:AW:206:GLY:O	1:AW:207:CYS:SG	2.63	0.56
3:DF:42:ASN:HD22	3:DF:44:ILE:HG22	1.65	0.56
2:CI:209:VAL:N	2:CI:210:PRO:CD	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:209:VAL:N	2:C2:210:PRO:CD	2.68	0.56
1:AG:103:TRP:HZ2	1:AH:208:TYR:CE2	2.23	0.56
1:A8:208:TYR:CE2	1:AB:103:TRP:HZ2	227.25	0.56
1:BF:103:TRP:HZ2	1:BG:208:TYR:CE2	2.23	0.56
1:AD:103:TRP:HZ2	1:AE:208:TYR:CE2	2.23	0.56
1:AA:208:TYR:CE2	1:AN:103:TRP:HZ2	259.45	0.56
1:A0:208:TYR:CE2	1:AZ:103:TRP:HZ2	2.23	0.56
1:A8:103:TRP:HZ2	1:A9:208:TYR:CE2	2.23	0.56
1:AI:103:TRP:HZ2	1:AJ:208:TYR:CE2	2.23	0.56
1:BH:103:TRP:HZ2	1:BI:208:TYR:CE2	2.23	0.56
1:AF:103:TRP:HZ2	1:AG:208:TYR:CE2	2.23	0.56
1:BB:103:TRP:HZ2	1:BC:208:TYR:CE2	2.23	0.56
2:C6:73:GLN:HA	2:C6:73:GLN:NE2	2.17	0.56
3:DQ:109:ILE:HB	3:DQ:205:LEU:HB2	1.88	0.56
3:DQ:61:TYR:HB3	3:DQ:205:LEU:HD23	1.87	0.56
3:DY:53:PHE:CE2	3:DY:205:LEU:HD13	2.41	0.56
2:CU:153:GLN:NE2	3:DU:55:SER:HB2	2.19	0.56
3:DJ:53:PHE:CE2	3:DJ:205:LEU:HD13	2.41	0.56
2:CT:73:GLN:NE2	2:CT:73:GLN:HA	2.17	0.56
2:CN:119:ALA:O	2:CN:205:PRO:HD3	2.06	0.56
2:CJ:119:ALA:O	2:CJ:205:PRO:HD3	2.06	0.56
2:C3:153:GLN:NE2	3:D3:55:SER:HB2	2.19	0.56
2:CE:119:ALA:O	2:CE:205:PRO:HD3	2.06	0.56
3:DB:109:ILE:HB	3:DB:205:LEU:HB2	1.88	0.56
2:C7:153:GLN:NE2	3:D7:55:SER:HB2	2.20	0.56
1:AV:218:MET:HB3	3:DW:40:PHE:CE1	2.39	0.56
3:D2:61:TYR:HB3	3:D2:205:LEU:HD23	1.87	0.56
2:CK:84:PRO:HD3	2:CK:108:TRP:HZ2	1.71	0.56
2:CA:84:PRO:HD3	2:CA:108:TRP:HZ2	1.71	0.56
2:CY:84:PRO:HD3	2:CY:108:TRP:HZ2	1.71	0.56
1:A7:165:ARG:O	3:D8:34:ARG:HG2	2.05	0.56
1:AB:165:ARG:O	3:DD:34:ARG:HG2	70.31	0.56
1:AN:165:ARG:O	3:DN:34:ARG:HG2	2.05	0.56
1:AI:165:ARG:O	3:DK:34:ARG:HG2	241.83	0.56
1:AA:165:ARG:O	3:DC:34:ARG:HG2	70.31	0.56
2:CH:84:PRO:HD3	2:CH:108:TRP:HZ2	1.71	0.56
1:AQ:165:ARG:O	3:DQ:34:ARG:HG2	2.05	0.56
3:DF:99:GLN:HB2	3:DF:217:ARG:HG3	1.87	0.56
2:C6:223:ASN:H	2:C6:223:ASN:ND2	2.01	0.56
3:DE:99:GLN:HB2	3:DE:217:ARG:HG3	1.87	0.56
3:DI:99:GLN:HB2	3:DI:217:ARG:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D4:99:GLN:HB2	3:D4:217:ARG:HG3	1.87	0.56
3:DX:99:GLN:HB2	3:DX:217:ARG:HG3	1.87	0.56
3:DD:99:GLN:HB2	3:DD:217:ARG:HG3	1.87	0.56
3:DK:99:GLN:HB2	3:DK:217:ARG:HG3	1.87	0.56
3:D6:99:GLN:HB2	3:D6:217:ARG:HG3	1.87	0.56
3:DU:86:HIS:ND1	3:DU:87:GLY:N	2.54	0.56
3:DO:86:HIS:ND1	3:DO:87:GLY:N	2.54	0.56
3:DF:86:HIS:ND1	3:DF:87:GLY:N	2.54	0.56
3:DV:86:HIS:ND1	3:DV:87:GLY:N	2.54	0.56
3:D6:86:HIS:ND1	3:D6:87:GLY:N	2.54	0.56
3:DY:86:HIS:ND1	3:DY:87:GLY:N	2.54	0.56
3:D9:86:HIS:ND1	3:D9:87:GLY:N	2.54	0.56
2:CT:36:TYR:HE2	2:CT:130:PRO:HG3	1.71	0.56
2:C7:36:TYR:HE2	2:C7:130:PRO:HG3	1.71	0.56
2:CL:36:TYR:HE2	2:CL:130:PRO:HG3	1.71	0.56
2:CW:36:TYR:HE2	2:CW:130:PRO:HG3	1.71	0.56
2:CJ:36:TYR:HE2	2:CJ:130:PRO:HG3	1.71	0.56
3:DB:122:VAL:O	3:DB:143:HIS:HB2	2.05	0.56
3:DK:122:VAL:O	3:DK:143:HIS:HB2	2.05	0.56
3:DM:122:VAL:O	3:DM:143:HIS:HB2	2.05	0.56
3:DP:122:VAL:O	3:DP:143:HIS:HB2	2.05	0.56
2:CO:98:VAL:O	2:CO:98:VAL:HG12	2.04	0.56
3:DS:122:VAL:O	3:DS:143:HIS:HB2	2.05	0.56
3:DZ:122:VAL:O	3:DZ:143:HIS:HB2	2.05	0.56
3:DJ:122:VAL:O	3:DJ:143:HIS:HB2	2.05	0.56
3:DB:179:VAL:HG12	3:DB:181:GLY:H	1.71	0.56
3:EE:122:VAL:O	3:EE:143:HIS:HB2	2.06	0.56
3:D5:122:VAL:O	3:D5:143:HIS:HB2	2.05	0.56
3:DI:122:VAL:O	3:DI:143:HIS:HB2	2.05	0.56
3:DE:179:VAL:HG12	3:DE:181:GLY:H	1.71	0.56
2:CU:63:THR:HG22	3:D5:188:LEU:HD21	253.98	0.56
2:CQ:63:THR:HG22	3:DY:188:LEU:HD21	119.78	0.56
2:C4:63:THR:HG22	3:EC:188:LEU:HD21	1.87	0.56
1:AU:206:GLY:O	1:AU:207:CYS:SG	2.63	0.56
3:DP:42:ASN:HD22	3:DP:44:ILE:HG22	1.65	0.56
1:AN:49:THR:HG22	1:AN:50:GLY:N	2.21	0.56
1:AO:103:TRP:HZ2	1:AS:208:TYR:CE2	117.60	0.56
1:A5:103:TRP:HZ2	1:A6:208:TYR:CE2	2.23	0.56
1:BA:103:TRP:HZ2	1:BB:208:TYR:CE2	2.23	0.56
1:AV:49:THR:HG22	1:AV:50:GLY:N	2.21	0.56
2:CJ:73:GLN:HA	2:CJ:73:GLN:NE2	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:73:GLN:NE2	2:CD:73:GLN:HA	2.17	0.56
3:DQ:53:PHE:CE2	3:DQ:205:LEU:HD13	2.41	0.56
3:DI:53:PHE:CE2	3:DI:205:LEU:HD13	2.41	0.56
3:DV:61:TYR:HB3	3:DV:205:LEU:HD23	1.87	0.56
3:EC:53:PHE:CE2	3:EC:205:LEU:HD13	2.41	0.56
3:DU:53:PHE:CE2	3:DU:205:LEU:HD13	2.41	0.56
2:CQ:119:ALA:O	2:CQ:205:PRO:HD3	2.06	0.56
3:D9:61:TYR:HB3	3:D9:205:LEU:HD23	1.87	0.56
3:DW:109:ILE:HB	3:DW:205:LEU:HB2	1.88	0.56
3:DW:53:PHE:CE2	3:DW:205:LEU:HD13	2.41	0.56
2:C4:153:GLN:NE2	3:D4:55:SER:HB2	2.19	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
2:CD:84:PRO:HD3	2:CD:108:TRP:HZ2	1.71	0.56
2:CK:218:ILE:O	2:CK:219:ASP:HB2	2.06	0.56
2:CC:84:PRO:HD3	2:CC:108:TRP:HZ2	1.71	0.56
2:CX:84:PRO:HD3	2:CX:108:TRP:HZ2	1.71	0.56
2:CN:218:ILE:O	2:CN:219:ASP:HB2	2.06	0.56
2:CG:218:ILE:O	2:CG:219:ASP:HB2	2.06	0.56
2:CO:84:PRO:HD3	2:CO:108:TRP:HZ2	1.71	0.56
2:CZ:84:PRO:HD3	2:CZ:108:TRP:HZ2	1.71	0.56
1:AJ:165:ARG:O	3:DJ:34:ARG:HG2	2.05	0.56
1:AJ:165:ARG:O	3:DL:34:ARG:HG2	232.24	0.56
1:AA:165:ARG:O	3:DA:34:ARG:HG2	2.05	0.56
1:AR:165:ARG:O	3:DR:34:ARG:HG2	2.05	0.56
2:CP:75:HIS:HE2	3:DP:59:LYS:HB3	1.71	0.56
1:A3:165:ARG:O	3:D4:34:ARG:HG2	2.05	0.56
2:CH:218:ILE:O	2:CH:219:ASP:HB2	2.06	0.56
1:AS:86:ILE:CD1	1:AS:86:ILE:N	2.65	0.56
1:BA:86:ILE:N	1:BA:86:ILE:CD1	2.65	0.56
3:DN:99:GLN:HB2	3:DN:217:ARG:HG3	1.87	0.56
3:DE:86:HIS:ND1	3:DE:87:GLY:N	2.54	0.56
3:DG:86:HIS:ND1	3:DG:87:GLY:N	2.54	0.56
3:DK:86:HIS:ND1	3:DK:87:GLY:N	2.54	0.56
3:D7:86:HIS:ND1	3:D7:87:GLY:N	2.54	0.56
3:DH:86:HIS:ND1	3:DH:87:GLY:N	2.54	0.56
3:EC:86:HIS:ND1	3:EC:87:GLY:N	2.54	0.56
2:C3:36:TYR:HE2	2:C3:130:PRO:HG3	1.71	0.56
2:CE:36:TYR:HE2	2:CE:130:PRO:HG3	1.71	0.56
2:C2:36:TYR:HE2	2:C2:130:PRO:HG3	1.71	0.56
2:C8:36:TYR:HE2	2:C8:130:PRO:HG3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DO:179:VAL:HG12	3:DO:181:GLY:H	1.71	0.56
3:D6:179:VAL:HG12	3:D6:181:GLY:H	1.71	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:DM:179:VAL:HG12	3:DM:181:GLY:H	1.71	0.56
3:DS:179:VAL:HG12	3:DS:181:GLY:H	1.71	0.56
3:DK:179:VAL:HG12	3:DK:181:GLY:H	1.71	0.56
3:DA:122:VAL:O	3:DA:143:HIS:HB2	2.05	0.56
3:DF:179:VAL:HG12	3:DF:181:GLY:H	1.71	0.56
2:CG:63:THR:N	3:EB:139:MET:HG3	2.19	0.56
2:C3:63:THR:HG22	3:DU:188:LEU:HD21	1.87	0.56
2:CG:209:VAL:N	2:CG:210:PRO:CD	2.68	0.56
1:AT:49:THR:HG22	1:AT:50:GLY:N	2.21	0.56
1:AD:49:THR:HG22	1:AD:50:GLY:N	2.21	0.56
1:AO:208:TYR:CE2	1:AR:103:TRP:HZ2	143.08	0.56
1:AR:49:THR:HG22	1:AR:50:GLY:N	2.21	0.56
1:BI:49:THR:HG22	1:BI:50:GLY:N	2.21	0.56
1:A0:49:THR:HG22	1:A0:50:GLY:N	2.21	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:AF:49:THR:HG22	1:AF:50:GLY:N	2.21	0.56
1:AK:49:THR:HG22	1:AK:50:GLY:N	2.21	0.56
3:EB:109:ILE:HB	3:EB:205:LEU:HB2	1.88	0.56
3:EB:53:PHE:CE2	3:EB:205:LEU:HD13	2.41	0.56
3:EA:109:ILE:HB	3:EA:205:LEU:HB2	1.88	0.56
3:DX:109:ILE:HB	3:DX:205:LEU:HB2	1.88	0.56
3:DX:53:PHE:CE2	3:DX:205:LEU:HD13	2.41	0.56
3:DG:109:ILE:HB	3:DG:205:LEU:HB2	1.88	0.56
2:CY:119:ALA:O	2:CY:205:PRO:HD3	2.06	0.56
3:DE:109:ILE:HB	3:DE:205:LEU:HB2	1.88	0.56
3:DA:109:ILE:HB	3:DA:205:LEU:HB2	1.88	0.56
2:CH:119:ALA:O	2:CH:205:PRO:HD3	2.06	0.56
3:DK:53:PHE:CE2	3:DK:205:LEU:HD13	2.41	0.56
2:C3:119:ALA:O	2:C3:205:PRO:HD3	2.06	0.56
2:CC:119:ALA:O	2:CC:205:PRO:HD3	2.06	0.56
3:DO:53:PHE:CE2	3:DO:205:LEU:HD13	2.41	0.56
3:D7:53:PHE:CE2	3:D7:205:LEU:HD13	2.41	0.56
1:AW:30:VAL:HG13	1:AW:218:MET:HE2	1.86	0.56
3:D0:109:ILE:HB	3:D0:205:LEU:HB2	1.88	0.56
2:CX:218:ILE:O	2:CX:219:ASP:HB2	2.06	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:AL:165:ARG:O	3:DN:34:ARG:HG2	70.31	0.56
1:A0:165:ARG:O	3:D1:34:ARG:HG2	2.05	0.56
1:AC:165:ARG:O	3:DE:34:ARG:HG2	70.31	0.56
1:AE:165:ARG:O	3:DG:34:ARG:HG2	120.22	0.56
1:A1:165:ARG:O	3:D2:34:ARG:HG2	2.05	0.56
1:AP:165:ARG:O	3:DP:34:ARG:HG2	2.05	0.56
2:C4:84:PRO:HD3	2:C4:108:TRP:HZ2	1.70	0.56
2:CF:75:HIS:HE2	3:DF:59:LYS:HB3	1.71	0.56
2:C6:75:HIS:HE2	3:D6:59:LYS:HB3	1.71	0.56
2:CT:75:HIS:HE2	3:EA:59:LYS:HB3	205.42	0.56
2:CS:75:HIS:HE2	3:DS:59:LYS:HB3	1.71	0.56
2:CN:75:HIS:HE2	3:DN:59:LYS:HB3	1.71	0.56
2:CL:75:HIS:HE2	3:DL:59:LYS:HB3	1.71	0.56
1:AX:165:ARG:O	3:DY:34:ARG:HG2	2.05	0.56
3:EA:99:GLN:HB2	3:EA:217:ARG:HG3	1.87	0.56
3:DZ:99:GLN:HB2	3:DZ:217:ARG:HG3	1.87	0.56
3:DG:99:GLN:HB2	3:DG:217:ARG:HG3	1.87	0.56
3:EE:99:GLN:HB2	3:EE:217:ARG:HG3	1.87	0.56
3:DR:86:HIS:ND1	3:DR:87:GLY:N	2.54	0.56
3:DD:86:HIS:ND1	3:DD:87:GLY:N	2.54	0.56
3:DL:86:HIS:ND1	3:DL:87:GLY:N	2.54	0.56
3:DT:86:HIS:ND1	3:DT:87:GLY:N	2.54	0.56
3:EB:86:HIS:ND1	3:EB:87:GLY:N	2.54	0.56
2:CS:36:TYR:HE2	2:CS:130:PRO:HG3	1.71	0.56
3:D2:179:VAL:HG12	3:D2:181:GLY:H	1.71	0.56
3:DH:179:VAL:HG12	3:DH:181:GLY:H	1.71	0.56
3:DU:179:VAL:HG12	3:DU:181:GLY:H	1.71	0.56
3:DT:179:VAL:HG12	3:DT:181:GLY:H	1.71	0.56
2:C1:98:VAL:O	2:C1:98:VAL:HG12	2.04	0.56
3:DY:122:VAL:O	3:DY:143:HIS:HB2	2.05	0.56
3:DV:179:VAL:HG12	3:DV:181:GLY:H	1.71	0.56
3:DN:179:VAL:HG12	3:DN:181:GLY:H	1.71	0.56
3:ED:179:VAL:HG12	3:ED:181:GLY:H	1.71	0.56
3:D8:122:VAL:O	3:D8:143:HIS:HB2	2.05	0.56
2:CR:63:THR:HG22	3:DI:188:LEU:HD21	158.52	0.56
2:CV:63:THR:HG22	3:DB:188:LEU:HD21	1.88	0.56
2:CL:63:THR:HG22	3:D8:188:LEU:HD21	119.78	0.56
2:C3:115:ASN:CA	3:DU:119:LYS:HD2	2.31	0.56
3:D5:42:ASN:HD22	3:D5:44:ILE:HG22	1.65	0.56
2:CF:209:VAL:N	2:CF:210:PRO:CD	2.68	0.56
2:CC:209:VAL:N	2:CC:210:PRO:CD	2.68	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:A6:103:TRP:HZ2	1:A7:208:TYR:CE2	2.23	0.56
1:BG:49:THR:HG22	1:BG:50:GLY:N	2.21	0.56
1:AM:49:THR:HG22	1:AM:50:GLY:N	2.21	0.56
1:AI:49:THR:HG22	1:AI:50:GLY:N	2.21	0.56
1:A5:49:THR:HG22	1:A5:50:GLY:N	2.21	0.56
1:A4:49:THR:HG22	1:A4:50:GLY:N	2.21	0.56
1:AS:49:THR:HG22	1:AS:50:GLY:N	2.21	0.56
1:AH:49:THR:HG22	1:AH:50:GLY:N	2.21	0.56
2:CP:73:GLN:NE2	2:CP:73:GLN:HA	2.17	0.56
1:BC:49:THR:HG22	1:BC:50:GLY:N	2.21	0.56
3:DP:53:PHE:CE2	3:DP:205:LEU:HD13	2.41	0.56
3:DM:109:ILE:HB	3:DM:205:LEU:HB2	1.88	0.56
3:DM:53:PHE:CE2	3:DM:205:LEU:HD13	2.41	0.56
3:DI:109:ILE:HB	3:DI:205:LEU:HB2	1.88	0.56
3:DH:53:PHE:CE2	3:DH:205:LEU:HD13	2.41	0.56
2:CP:119:ALA:O	2:CP:205:PRO:HD3	2.06	0.56
3:DL:109:ILE:HB	3:DL:205:LEU:HB2	1.88	0.56
2:CT:119:ALA:O	2:CT:205:PRO:HD3	2.06	0.56
3:EE:109:ILE:HB	3:EE:205:LEU:HB2	1.88	0.56
3:EE:53:PHE:CE2	3:EE:205:LEU:HD13	2.41	0.56
2:CG:119:ALA:O	2:CG:205:PRO:HD3	2.06	0.56
3:DR:53:PHE:CE2	3:DR:205:LEU:HD13	2.41	0.56
3:D9:53:PHE:CE2	3:D9:205:LEU:HD13	2.41	0.56
3:DA:53:PHE:CE2	3:DA:205:LEU:HD13	2.41	0.56
3:DW:61:TYR:HB3	3:DW:205:LEU:HD23	1.87	0.56
2:CZ:119:ALA:O	2:CZ:205:PRO:HD3	2.06	0.56
3:DS:53:PHE:CE2	3:DS:205:LEU:HD13	2.41	0.56
3:D1:61:TYR:HB3	3:D1:205:LEU:HD23	1.87	0.56
2:CW:119:ALA:O	2:CW:205:PRO:HD3	2.06	0.56
2:C4:119:ALA:O	2:C4:205:PRO:HD3	2.06	0.56
3:D7:109:ILE:HB	3:D7:205:LEU:HB2	1.88	0.56
2:CO:119:ALA:O	2:CO:205:PRO:HD3	2.06	0.56
2:CT:218:ILE:O	2:CT:219:ASP:HB2	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:CI:84:PRO:HD3	2:CI:108:TRP:HZ2	1.70	0.56
1:AB:165:ARG:O	3:DB:34:ARG:HG2	2.05	0.56
1:AE:165:ARG:O	3:DE:34:ARG:HG2	2.05	0.56
2:CV:75:HIS:HE2	3:DV:59:LYS:HB3	1.71	0.56
2:C3:75:HIS:HE2	3:D3:59:LYS:HB3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:218:ILE:O	2:C3:219:ASP:HB2	2.06	0.56
2:CW:75:HIS:HE2	3:DW:59:LYS:HB3	1.71	0.56
2:CW:75:HIS:HE2	3:ED:59:LYS:HB3	263.41	0.56
1:BF:165:ARG:O	3:EB:34:ARG:HG2	2.05	0.56
1:A5:86:ILE:CD1	1:A5:86:ILE:N	2.65	0.56
3:DH:99:GLN:HB2	3:DH:217:ARG:HG3	1.87	0.56
3:DQ:99:GLN:HB2	3:DQ:217:ARG:HG3	1.87	0.56
3:EB:99:GLN:HB2	3:EB:217:ARG:HG3	1.87	0.56
3:DI:86:HIS:ND1	3:DI:87:GLY:N	2.54	0.56
3:DJ:86:HIS:ND1	3:DJ:87:GLY:N	2.54	0.56
3:DN:86:HIS:ND1	3:DN:87:GLY:N	2.54	0.56
3:DP:86:HIS:ND1	3:DP:87:GLY:N	2.54	0.56
2:C1:36:TYR:HE2	2:C1:130:PRO:HG3	1.70	0.56
2:C6:36:TYR:HE2	2:C6:130:PRO:HG3	1.71	0.56
2:CM:36:TYR:HE2	2:CM:130:PRO:HG3	1.71	0.56
3:DP:179:VAL:HG12	3:DP:181:GLY:H	1.71	0.56
3:DO:122:VAL:O	3:DO:143:HIS:HB2	2.05	0.56
3:D9:179:VAL:HG12	3:D9:181:GLY:H	1.71	0.56
3:DR:122:VAL:O	3:DR:143:HIS:HB2	2.05	0.56
3:DD:122:VAL:O	3:DD:143:HIS:HB2	2.05	0.56
3:DH:122:VAL:O	3:DH:143:HIS:HB2	2.05	0.56
1:AF:244:ASN:OD1	3:DH:172:ALA:HB1	86.04	0.56
1:AJ:244:ASN:OD1	3:DJ:172:ALA:HB1	2.06	0.56
2:CJ:115:ASN:ND2	3:DM:190:ALA:C	236.48	0.56
2:CK:63:THR:HG22	3:DA:188:LEU:HD21	264.88	0.56
2:C2:63:THR:HG22	3:DH:188:LEU:HD21	253.98	0.56
2:CU:115:ASN:CA	3:D5:119:LYS:HD2	256.10	0.56
2:CQ:63:THR:HG22	3:DP:188:LEU:HD21	117.85	0.56
2:CO:115:ASN:ND2	3:DR:190:ALA:C	147.63	0.56
2:CG:115:ASN:ND2	3:D3:190:ALA:C	263.78	0.56
2:CZ:115:ASN:ND2	3:DQ:190:ALA:C	94.27	0.56
2:CA:115:ASN:ND2	3:DL:190:ALA:C	263.78	0.56
2:CN:63:THR:HG22	3:D2:188:LEU:HD21	1.87	0.56
2:CN:115:ASN:ND2	3:D2:190:ALA:C	2.59	0.56
2:CN:115:ASN:ND2	3:DE:190:ALA:C	263.02	0.56
2:C3:115:ASN:C	3:DU:119:LYS:HZ3	2.08	0.56
2:CS:63:THR:HG22	3:DC:188:LEU:HD21	254.62	0.56
2:CE:115:ASN:ND2	3:DC:190:ALA:C	155.03	0.56
2:CF:115:ASN:ND2	3:DV:190:ALA:C	186.32	0.56
2:CF:63:THR:HG22	3:DV:188:LEU:HD21	191.86	0.56
1:AN:206:GLY:O	1:AN:207:CYS:SG	2.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:121:LEU:CD2	1:AU:207:CYS:H	2.12	0.56
2:CE:209:VAL:N	2:CE:210:PRO:CD	2.68	0.56
1:AL:103:TRP:HZ2	1:AM:208:TYR:CE2	2.23	0.56
1:BG:103:TRP:HZ2	1:BH:208:TYR:CE2	2.23	0.56
1:AA:103:TRP:HZ2	1:AB:208:TYR:CE2	2.23	0.56
1:AY:103:TRP:HZ2	1:AZ:208:TYR:CE2	2.23	0.56
1:AP:208:TYR:CE2	1:AS:103:TRP:HZ2	2.23	0.56
2:CA:73:GLN:HA	2:CA:73:GLN:NE2	2.17	0.56
2:CZ:73:GLN:NE2	2:CZ:73:GLN:HA	2.17	0.56
3:DU:61:TYR:HB3	3:DU:205:LEU:HD23	1.87	0.56
3:DL:53:PHE:CE2	3:DL:205:LEU:HD13	2.41	0.56
3:DG:53:PHE:CE2	3:DG:205:LEU:HD13	2.41	0.56
2:CI:119:ALA:O	2:CI:205:PRO:HD3	2.06	0.56
3:DE:53:PHE:CE2	3:DE:205:LEU:HD13	2.41	0.56
3:ED:53:PHE:CE2	3:ED:205:LEU:HD13	2.41	0.56
2:CU:119:ALA:O	2:CU:205:PRO:HD3	2.06	0.56
3:D4:61:TYR:HB3	3:D4:205:LEU:HD23	1.87	0.56
2:C1:119:ALA:O	2:C1:205:PRO:HD3	2.06	0.56
2:CF:218:ILE:O	2:CF:219:ASP:HB2	2.06	0.56
2:CM:84:PRO:HD3	2:CM:108:TRP:HZ2	1.71	0.56
2:CJ:218:ILE:O	2:CJ:219:ASP:HB2	2.06	0.56
1:BG:165:ARG:O	3:EC:34:ARG:HG2	2.05	0.56
2:CE:84:PRO:HD3	2:CE:108:TRP:HZ2	1.71	0.56
1:BB:165:ARG:O	3:DQ:34:ARG:HG2	119.76	0.56
2:CX:75:HIS:HE2	3:EE:59:LYS:HB3	192.17	0.56
3:DR:99:GLN:HB2	3:DR:217:ARG:HG3	1.87	0.56
3:D5:99:GLN:HB2	3:D5:217:ARG:HG3	1.87	0.56
3:DL:99:GLN:HB2	3:DL:217:ARG:HG3	1.87	0.56
3:D1:86:HIS:ND1	3:D1:87:GLY:N	2.54	0.56
3:DW:86:HIS:ND1	3:DW:87:GLY:N	2.54	0.56
2:CB:36:TYR:HE2	2:CB:130:PRO:HG3	1.71	0.56
2:CU:36:TYR:HE2	2:CU:130:PRO:HG3	1.71	0.56
2:CZ:36:TYR:HE2	2:CZ:130:PRO:HG3	1.71	0.56
1:AO:244:ASN:OD1	3:DO:172:ALA:HB1	2.06	0.56
3:EE:179:VAL:HG12	3:EE:181:GLY:H	1.71	0.56
1:A1:244:ASN:OD1	3:D2:172:ALA:HB1	2.06	0.56
3:DL:122:VAL:O	3:DL:143:HIS:HB2	2.05	0.56
1:AI:80:SER:HB3	1:AI:216:ALA:HA	1.88	0.56
3:D4:122:VAL:O	3:D4:143:HIS:HB2	2.05	0.56
3:DL:179:VAL:HG12	3:DL:181:GLY:H	1.71	0.56
2:CH:63:THR:HG22	3:DS:188:LEU:HD21	158.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:115:ASN:ND2	3:DJ:190:ALA:C	2.59	0.56
2:CC:63:THR:HG22	3:DN:188:LEU:HD21	158.52	0.56
2:CH:115:ASN:ND2	3:DN:190:ALA:C	263.67	0.56
2:CW:63:THR:HG22	3:DS:188:LEU:HD21	236.96	0.56
2:CR:115:ASN:ND2	3:DI:190:ALA:C	163.31	0.56
2:CV:115:ASN:ND2	3:DB:190:ALA:C	2.59	0.56
2:CV:63:THR:HG22	3:DD:188:LEU:HD21	140.81	0.56
2:C5:63:THR:HG22	3:DG:188:LEU:HD21	1.87	0.56
2:CD:115:ASN:ND2	3:D4:190:ALA:C	147.63	0.56
2:CO:115:ASN:ND2	3:DP:190:ALA:C	2.60	0.56
2:CQ:115:ASN:ND2	3:DP:190:ALA:C	114.37	0.56
2:CG:63:THR:HG22	3:D3:188:LEU:HD21	253.98	0.56
2:C0:115:ASN:ND2	3:DQ:190:ALA:C	2.59	0.56
2:CA:115:ASN:ND2	3:DW:190:ALA:C	2.59	0.56
2:CY:115:ASN:CA	3:DZ:119:LYS:HD2	2.31	0.56
3:DH:42:ASN:HD22	3:DH:44:ILE:HG22	1.65	0.56
3:D4:42:ASN:HD22	3:D4:44:ILE:HG22	1.65	0.56
3:EB:42:ASN:HD22	3:EB:44:ILE:HG22	1.66	0.56
2:CQ:209:VAL:N	2:CQ:210:PRO:CD	2.68	0.56
2:CK:209:VAL:N	2:CK:210:PRO:CD	2.68	0.56
2:CO:202:LEU:HD11	2:CO:209:VAL:HG21	1.88	0.56
2:CV:202:LEU:HD11	2:CV:209:VAL:HG21	1.88	0.56
1:AE:49:THR:HG22	1:AE:50:GLY:N	2.21	0.56
1:AJ:49:THR:HG22	1:AJ:50:GLY:N	2.21	0.56
1:AA:49:THR:HG22	1:AA:50:GLY:N	2.21	0.56
1:A1:49:THR:HG22	1:A1:50:GLY:N	2.21	0.56
1:AM:103:TRP:HZ2	1:AN:208:TYR:CE2	2.23	0.56
1:AY:49:THR:HG22	1:AY:50:GLY:N	2.21	0.56
1:AU:49:THR:HG22	1:AU:50:GLY:N	2.21	0.56
2:C5:73:GLN:HA	2:C5:73:GLN:NE2	2.17	0.56
2:CF:119:ALA:O	2:CF:205:PRO:HD3	2.06	0.56
2:CD:119:ALA:O	2:CD:205:PRO:HD3	2.06	0.56
2:CV:119:ALA:O	2:CV:205:PRO:HD3	2.06	0.56
2:CB:119:ALA:O	2:CB:205:PRO:HD3	2.06	0.56
2:C5:119:ALA:O	2:C5:205:PRO:HD3	2.06	0.56
3:D7:61:TYR:HB3	3:D7:205:LEU:HD23	1.87	0.56
2:C7:119:ALA:O	2:C7:205:PRO:HD3	2.06	0.56
3:D8:53:PHE:CE2	3:D8:205:LEU:HD13	2.41	0.56
2:CA:218:ILE:O	2:CA:219:ASP:HB2	2.06	0.56
2:CL:218:ILE:O	2:CL:219:ASP:HB2	2.06	0.56
2:CV:84:PRO:HD3	2:CV:108:TRP:HZ2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:84:PRO:HD3	2:CW:108:TRP:HZ2	1.71	0.56
2:CW:218:ILE:O	2:CW:219:ASP:HB2	2.06	0.56
2:CA:75:HIS:HE2	3:DA:59:LYS:HB3	1.71	0.56
2:CK:75:HIS:HE2	3:DK:59:LYS:HB3	1.71	0.56
1:AV:165:ARG:O	3:DW:34:ARG:HG2	2.05	0.56
2:C5:75:HIS:HE2	3:D5:59:LYS:HB3	1.71	0.56
2:CH:75:HIS:HE2	3:DH:59:LYS:HB3	1.71	0.56
3:EC:99:GLN:HB2	3:EC:217:ARG:HG3	1.87	0.56
3:DB:99:GLN:HB2	3:DB:217:ARG:HG3	1.87	0.56
3:DA:86:HIS:ND1	3:DA:87:GLY:N	2.54	0.56
3:D8:86:HIS:ND1	3:D8:87:GLY:N	2.54	0.56
2:C4:36:TYR:HE2	2:C4:130:PRO:HG3	1.71	0.56
2:CN:36:TYR:HE2	2:CN:130:PRO:HG3	1.71	0.56
2:CO:36:TYR:HE2	2:CO:130:PRO:HG3	1.71	0.56
1:AD:244:ASN:OD1	3:DD:172:ALA:HB1	2.06	0.56
1:AL:244:ASN:OD1	3:DL:172:ALA:HB1	2.06	0.56
1:AK:244:ASN:OD1	3:DK:172:ALA:HB1	2.06	0.56
1:AK:244:ASN:OD1	3:DM:172:ALA:HB1	86.04	0.56
3:D9:122:VAL:O	3:D9:143:HIS:HB2	2.06	0.56
3:DC:179:VAL:HG12	3:DC:181:GLY:H	1.71	0.56
1:AW:244:ASN:OD1	3:DX:172:ALA:HB1	2.06	0.56
3:DQ:179:VAL:HG12	3:DQ:181:GLY:H	1.71	0.56
1:AQ:80:SER:HB3	1:AQ:216:ALA:HA	1.88	0.56
1:BC:244:ASN:OD1	3:DR:172:ALA:HB1	146.20	0.56
1:AR:80:SER:HB3	1:AR:216:ALA:HA	1.88	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
1:AT:244:ASN:OD1	3:DU:172:ALA:HB1	2.06	0.56
1:A2:244:ASN:OD1	3:D3:172:ALA:HB1	2.06	0.56
1:AN:80:SER:HB3	1:AN:216:ALA:HA	1.88	0.56
2:CM:115:ASN:ND2	3:DI:190:ALA:C	263.67	0.56
2:CT:115:ASN:ND2	3:DH:190:ALA:C	233.04	0.56
2:CL:63:THR:HG22	3:DK:188:LEU:HD21	117.85	0.56
2:CU:63:THR:HG22	3:DG:188:LEU:HD21	236.21	0.56
2:CO:115:ASN:CA	3:DP:119:LYS:HD2	2.31	0.56
2:C0:115:ASN:C	3:DQ:119:LYS:HZ3	2.08	0.56
2:CA:63:THR:N	3:DL:139:MET:HG3	252.63	0.56
2:CB:115:ASN:C	3:DF:119:LYS:HZ3	145.56	0.56
2:CJ:202:LEU:HD11	2:CJ:209:VAL:HG21	1.88	0.56
2:CH:202:LEU:HD11	2:CH:209:VAL:HG21	1.88	0.56
2:C4:202:LEU:HD11	2:C4:209:VAL:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:209:VAL:N	2:CV:210:PRO:CD	2.68	0.56
2:CM:202:LEU:HD11	2:CM:209:VAL:HG21	1.88	0.56
1:AG:49:THR:HG22	1:AG:50:GLY:N	2.21	0.56
1:AL:49:THR:HG22	1:AL:50:GLY:N	2.21	0.56
1:AP:49:THR:HG22	1:AP:50:GLY:N	2.21	0.56
1:A7:49:THR:HG22	1:A7:50:GLY:N	2.21	0.56
2:CR:73:GLN:NE2	2:CR:73:GLN:HA	2.17	0.56
3:DV:53:PHE:CE2	3:DV:205:LEU:HD13	2.41	0.56
2:CL:119:ALA:O	2:CL:205:PRO:HD3	2.06	0.56
3:DJ:109:ILE:HB	3:DJ: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
2:CS:119:ALA:O	2:CS:205:PRO:HD3	2.06	0.56
3:DE:61:TYR:HB3	3:DE:205:LEU:HD23	1.87	0.56
2:CK:119:ALA:O	2:CK:205:PRO:HD3	2.06	0.56
3:DS:109:ILE:HB	3:DS:205:LEU:HB2	1.88	0.56
3:DB:53:PHE:CE2	3:DB:205:LEU:HD13	2.41	0.56
3:DO:109:ILE:HB	3:DO:205:LEU:HB2	1.88	0.56
3:DD:109:ILE:HB	3:DD:205:LEU:HB2	1.88	0.56
2:CF:84:PRO:HD3	2:CF:108:TRP:HZ2	1.71	0.56
2:C1:84:PRO:HD3	2:C1:108:TRP:HZ2	1.71	0.56
2:C7:84:PRO:HD3	2:C7:108:TRP:HZ2	1.70	0.56
2:CL:84:PRO:HD3	2:CL:108:TRP:HZ2	1.71	0.56
2:C2:218:ILE:O	2:C2:219:ASP:HB2	2.06	0.56
1:BD:165:ARG:O	3:DS:34:ARG:HG2	139.16	0.56
1:AM:165:ARG:O	3:DO:34:ARG:HG2	70.31	0.56
2:CG:75:HIS:HE2	3:DG:59:LYS:HB3	1.71	0.56
1:BC:165:ARG:O	3:DR:34:ARG:HG2	137.78	0.56
2:CV:75:HIS:HE2	3:EC:59:LYS:HB3	272.75	0.56
2:C2:75:HIS:HE2	3:D2:59:LYS:HB3	1.71	0.56
2:CJ:75:HIS:HE2	3:DJ:59:LYS:HB3	1.71	0.56
2:CY:75:HIS:HE2	3:DY:59:LYS:HB3	1.71	0.56
2:CD:75:HIS:HE2	3:DD:59:LYS:HB3	1.71	0.56
2:CI:75:HIS:HE2	3:DI:59:LYS:HB3	1.71	0.56
3:D3:99:GLN:HB2	3:D3:217:ARG:HG3	1.87	0.56
3:DC:86:HIS:ND1	3:DC:87:GLY:N	2.54	0.56
3:DS:86:HIS:ND1	3:DS:87:GLY:N	2.54	0.56
3:EE:86:HIS:ND1	3:EE:87:GLY:N	2.54	0.56
2:CF:36:TYR:HE2	2:CF:130:PRO:HG3	1.71	0.56
2:CG:36:TYR:HE2	2:CG:130:PRO:HG3	1.71	0.56
1:BA:244:ASN:OD1	3:DP:172:ALA:HB1	139.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DG:179:VAL:HG12	3:DG:181:GLY:H	1.71	0.56
1:AZ:80:SER:HB3	1:AZ:216:ALA:HA	1.88	0.56
3:DJ:179:VAL:HG12	3:DJ:181:GLY:H	1.71	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:A1:80:SER:HB3	1:A1:216:ALA:HA	1.88	0.56
1:AV:80:SER:HB3	1:AV:216:ALA:HA	1.88	0.56
1:BG:244:ASN:OD1	3:EC:172:ALA:HB1	2.06	0.56
1:BC:80:SER:HB3	1:BC:216:ALA:HA	1.88	0.56
1:BD:80:SER:HB3	1:BD:216:ALA:HA	1.88	0.56
1:AO:80:SER:HB3	1:AO:216:ALA:HA	1.88	0.56
2:C8:115:ASN:C	3:D9:119:LYS:HZ2	2.08	0.56
2:CM:63:THR:HG22	3:DD:188:LEU:HD21	158.52	0.56
2:CJ:63:THR:HG22	3:DA:188:LEU:HD21	1.87	0.56
2:CK:115:ASN:ND2	3:DA:190:ALA:C	277.50	0.56
2:CM:115:ASN:ND2	3:DD:190:ALA:C	163.31	0.56
2:C7:115:ASN:ND2	3:DM:190:ALA:C	157.13	0.56
2:CU:115:ASN:ND2	3:D5:190:ALA:C	263.78	0.56
2:CD:63:THR:HG22	3:D7:188:LEU:HD21	1.88	0.56
2:C3:115:ASN:ND2	3:DU:190:ALA:C	2.59	0.56
2:CS:63:THR:HG22	3:EA:188:LEU:HD21	157.67	0.56
1:BI:19:LEU:HD12	3:EE:160:TYR:HB3	1.88	0.56
1:AT:19:LEU:HD12	3:DU:160:TYR:HB3	1.88	0.56
1:AV:19:LEU:HD12	3:DW:160:TYR:HB3	1.88	0.56
1:A6:19:LEU:HD12	3:D7:160:TYR:HB3	1.88	0.56
1:AV:102:VAL:HG22	1:AV:199:SER:CB	2.30	0.56
2:CQ:202:LEU:HD11	2:CQ:209:VAL:HG21	1.88	0.56
2:C2:202:LEU:HD11	2:C2:209:VAL:HG21	1.88	0.56
1:BE:49:THR:HG22	1:BE:50:GLY:N	2.21	0.56
1:AC:49:THR:HG22	1:AC:50:GLY:N	2.21	0.56
1:AK:208:TYR:CE2	1:AO:103:TRP:HZ2	2.23	0.56
1:AW:49:THR:HG22	1:AW:50:GLY:N	2.21	0.56
1:BA:49:THR:HG22	1:BA:50:GLY:N	2.21	0.56
3:DY:109:ILE:HB	3:DY:205:LEU:HB2	1.88	0.56
3:EC:61:TYR:HB3	3:EC:205:LEU:HD23	1.87	0.56
3:DF:109:ILE:HB	3:DF:205:LEU:HB2	1.88	0.56
2:C3:73:GLN:HA	2:C3:73:GLN:NE2	2.17	0.56
2:C2:153:GLN:NE2	3:D2:55:SER:HB2	2.19	0.56
1:A2:30:VAL:HG13	1:A2:218:MET:HE2	1.87	0.56
3:D0:53:PHE:CE2	3:D0:205:LEU:HD13	2.41	0.56
2:CT:84:PRO:HD3	2:CT:108:TRP:HZ2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:218:ILE:O	2:CR:219:ASP:HB2	2.06	0.56
2:C2:84:PRO:HD3	2:C2:108:TRP:HZ2	1.71	0.56
1:AO:165:ARG:O	3:DO:34:ARG:HG2	2.05	0.56
2:CB:84:PRO:HD3	2:CB:108:TRP:HZ2	1.71	0.56
1:A3:165:ARG:HB2	3:D4:33:PRO:O	2.06	0.56
2:CE:218:ILE:O	2:CE:219:ASP:HB2	2.06	0.56
1:AS:165:ARG:O	3:DT:34:ARG:HG2	2.05	0.56
1:BF:165:ARG:HB2	3:EB:33:PRO:O	2.06	0.56
1:AT:165:ARG:O	3:DU:34:ARG:HG2	2.05	0.56
2:CB:75:HIS:HE2	3:DB:59:LYS:HB3	1.71	0.56
3:D5:86:HIS:ND1	3:D5:87:GLY:N	2.54	0.56
2:CC:36:TYR:HE2	2:CC:130:PRO:HG3	1.71	0.56
1:AM:244:ASN:OD1	3:DM:172:ALA:HB1	2.06	0.56
3:D4:179:VAL:HG12	3:D4:181:GLY:H	1.71	0.56
3:DC:122:VAL:O	3:DC:143:HIS:HB2	2.05	0.56
1:A6:80:SER:HB3	1:A6:216:ALA:HA	1.88	0.56
3:D7:179:VAL:HG12	3:D7:181:GLY:H	1.71	0.56
1:A2:80:SER:HB3	1:A2:216:ALA:HA	1.88	0.56
1:AJ:80:SER:HB3	1:AJ:216:ALA:HA	1.88	0.56
3:D0:179:VAL:HG12	3:D0:181:GLY:H	1.71	0.56
2:CR:98:VAL:HG12	2:CR:98:VAL:O	2.04	0.56
3:DD:179:VAL:HG12	3:DD:181:GLY:H	1.71	0.56
3:D3:179:VAL:HG12	3:D3:181:GLY:H	1.71	0.56
1:AE:80:SER:HB3	1:AE:216:ALA:HA	1.88	0.56
1:AW:80:SER:HB3	1:AW:216:ALA:HA	1.88	0.56
2:C8:115:ASN:ND2	3:D9:190:ALA:C	2.59	0.55
2:CW:115:ASN:ND2	3:DS:190:ALA:C	252.93	0.55
2:CL:115:ASN:ND2	3:D8:190:ALA:C	116.46	0.55
2:CT:115:ASN:C	3:DK:119:LYS:HZ3	2.09	0.55
2:CT:115:ASN:ND2	3:DK:190:ALA:C	2.59	0.55
2:CO:63:THR:HG22	3:DR:188:LEU:HD21	140.82	0.55
2:CX:115:ASN:ND2	3:DO:190:ALA:C	220.21	0.55
2:CG:115:ASN:ND2	3:EB:190:ALA:C	2.59	0.55
2:C0:63:THR:HG22	3:DQ:188:LEU:HD21	1.87	0.55
2:CB:115:ASN:ND2	3:DF:190:ALA:C	151.07	0.55
2:CE:115:ASN:ND2	3:DF:190:ALA:C	2.59	0.55
1:A0:19:LEU:HD12	3:D1:160:TYR:HB3	1.89	0.55
2:CI:202:LEU:HD11	2:CI:209:VAL:HG21	1.88	0.55
2:C3:202:LEU:HD11	2:C3:209:VAL:HG21	1.89	0.55
2:CX:202:LEU:HD11	2:CX:209:VAL:HG21	1.88	0.55
2:CD:202:LEU:HD11	2:CD:209:VAL:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:202:LEU:HD11	2:CC:209:VAL:HG21	1.88	0.55
2:C5:202:LEU:HD11	2:C5:209:VAL:HG21	1.88	0.55
1:AB:49:THR:HG22	1:AB:50:GLY:N	2.21	0.55
1:A3:49:THR:HG22	1:A3:50:GLY:N	2.21	0.55
1:A6:49:THR:HG22	1:A6:50:GLY:N	2.21	0.55
1:AX:49:THR:HG22	1:AX:50:GLY:N	2.21	0.55
1:AH:103:TRP:HZ2	1:AI:208:TYR:CE2	2.23	0.55
3:DN:53:PHE:CE2	3:DN:205:LEU:HD13	2.41	0.55
3:DU:109:ILE:HB	3:DU:205:LEU:HB2	1.88	0.55
3:ED:61:TYR:HB3	3:ED:205:LEU:HD23	1.87	0.55
3:D5:109:ILE:HB	3:D5:205:LEU:HB2	1.88	0.55
2:CM:119:ALA:O	2:CM:205:PRO:HD3	2.06	0.55
1:AD:30:VAL:HG13	1:AD:218:MET:HE2	2.03	0.55
3:D2:53:PHE:CE2	3:D2:205:LEU:HD13	2.41	0.55
2:C2:119:ALA:O	2:C2:205:PRO:HD3	2.06	0.55
2:CJ:84:PRO:HD3	2:CJ:108:TRP:HZ2	1.70	0.55
1:BI:165:ARG:O	3:EE:34:ARG:HG2	2.05	0.55
3:DS:99:GLN:HB2	3:DS:217:ARG:HG3	1.87	0.55
3:DE:121:LEU:HD22	3:DE:186:TYR:HB2	1.89	0.55
2:CD:36:TYR:HE2	2:CD:130:PRO:HG3	1.71	0.55
2:CK:36:TYR:HE2	2:CK:130:PRO:HG3	1.71	0.55
1:AI:244:ASN:OD1	3:DK:172:ALA:HB1	271.81	0.55
1:AM:244:ASN:OD1	3:DO:172:ALA:HB1	86.04	0.55
1:AO:244:ASN:OD1	3:DS:172:ALA:HB1	169.31	0.55
1:AR:244:ASN:OD1	3:DR:172:ALA:HB1	2.06	0.55
1:AP:80:SER:HB3	1:AP:216:ALA:HA	1.88	0.55
3:D1:122:VAL:O	3:D1:143:HIS:HB2	2.06	0.55
1:AY:244:ASN:OD1	3:DZ:172:ALA:HB1	2.06	0.55
3:D8:179:VAL:HG12	3:D8:181:GLY:H	1.71	0.55
1:AZ:244:ASN:OD1	3:D0:172:ALA:HB1	2.06	0.55
3:EB:179:VAL:HG12	3:EB:181:GLY:H	1.71	0.55
1:A0:80:SER:HB3	1:A0:216:ALA:HA	1.88	0.55
1:AK:80:SER:HB3	1:AK:216:ALA:HA	1.88	0.55
1:A3:80:SER:HB3	1:A3:216:ALA:HA	1.88	0.55
2:CI:115:ASN:ND2	3:DX:190:ALA:C	2.59	0.55
2:C7:63:THR:HG22	3:DM:188:LEU:HD21	147.19	0.55
2:CK:115:ASN:C	3:DA:119:LYS:HZ3	273.70	0.55
2:CL:115:ASN:ND2	3:DK:190:ALA:C	114.37	0.55
2:C1:115:ASN:ND2	3:DO:190:ALA:C	2.60	0.55
2:CX:63:THR:HG22	3:DR:188:LEU:HD21	147.19	0.55
2:CA:63:THR:HG22	3:DW:188:LEU:HD21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CS:115:ASN:ND2	3:EA:190:ALA:C	161.91	0.55
2:CB:63:THR:HG22	3:DT:188:LEU:HD21	254.62	0.55
1:AF:19:LEU:HD12	3:DH:160:TYR:HB3	90.09	0.55
1:AL:19:LEU:HD12	3:DL:160:TYR:HB3	1.89	0.55
2:CS:202:LEU:HD11	2:CS:209:VAL:HG21	1.88	0.55
1:BF:49:THR:HG22	1:BF:50:GLY:N	2.21	0.55
1:A3:208:TYR:CE2	1:A7:103:TRP:HZ2	2.23	0.55
3:DH:109:ILE:HB	3:DH:205:LEU:HB2	1.88	0.55
3:DF:53:PHE:CE2	3:DF:205:LEU:HD13	2.41	0.55
2:CX:119:ALA:O	2:CX:205:PRO:HD3	2.06	0.55
2:C9:119:ALA:O	2:C9:205:PRO:HD3	2.06	0.55
3:DX:61:TYR:HB3	3:DX:205:LEU:HD23	1.87	0.55
2:CA:119:ALA:O	2:CA:205:PRO:HD3	2.06	0.55
2:C0:218:ILE:O	2:C0:219:ASP:HB2	2.06	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:CO:218:ILE:O	2:CO:219:ASP:HB2	2.06	0.55
1:AF:165:ARG:O	3:DH:34:ARG:HG2	70.31	0.55
1:AC:165:ARG:HB2	3:DC:33:PRO:O	2.07	0.55
1:AE:165:ARG:HB2	3:DG:33:PRO:O	119.35	0.55
1:AK:165:ARG:O	3:DM:34:ARG:HG2	70.31	0.55
1:A6:165:ARG:HB2	3:D7:33:PRO:O	2.06	0.55
2:C3:84:PRO:HD3	2:C3:108:TRP:HZ2	1.71	0.55
3:DC:56:ILE:HG13	3:DC:74:PHE:HE1	1.72	0.55
1:AQ:165:ARG:HB2	3:DQ:33:PRO:O	2.06	0.55
1:A5:165:ARG:O	3:D6:34:ARG:HG2	2.05	0.55
1:AT:165:ARG:HB2	3:DU:33:PRO:O	2.06	0.55
3:DL:56:ILE:HG13	3:DL:74:PHE:HE1	1.72	0.55
1:A4:86:ILE:N	1:A4:86:ILE:CD1	2.65	0.55
3:D0:86:HIS:ND1	3:D0:87:GLY:N	2.54	0.55
3:DQ:86:HIS:ND1	3:DQ:87:GLY:N	2.54	0.55
3:DN:121:LEU:HD22	3:DN:186:TYR:HB2	1.89	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:DQ:121:LEU:HD22	3:DQ:186:TYR:HB2	1.89	0.55
1:AJ:244:ASN:OD1	3:DL:172:ALA:HB1	282.72	0.55
1:AG:244:ASN:OD1	3:DG:172:ALA:HB1	2.06	0.55
3:DT:122:VAL:O	3:DT:143:HIS:HB2	2.05	0.55
1:A5:244:ASN:OD1	3:D6:172:ALA:HB1	2.06	0.55
1:AH:80:SER:HB3	1:AH:216:ALA:HA	1.88	0.55
3:DV:122:VAL:O	3:DV:143:HIS:HB2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:122:VAL:O	3:EC:143:HIS:HB2	2.05	0.55
1:A0:244:ASN:OD1	3:D1:172:ALA:HB1	2.06	0.55
2:C8:98:VAL:O	2:C8:98:VAL:HG12	2.04	0.55
1:AD:80:SER:HB3	1:AD:216:ALA:HA	1.88	0.55
3:D1:179:VAL:HG12	3:D1:181:GLY:H	1.71	0.55
2:CJ:115:ASN:ND2	3:DA:190:ALA:C	2.59	0.55
2:CX:115:ASN:ND2	3:DR:190:ALA:C	157.13	0.55
2:CN:115:ASN:C	3:D2:119:LYS:HZ3	2.08	0.55
2:C6:115:ASN:CA	3:DE:119:LYS:HD2	2.31	0.55
2:CB:115:ASN:ND2	3:DT:190:ALA:C	263.67	0.55
2:CP:63:THR:HG22	3:D1:188:LEU:HD21	1.87	0.55
1:A8:19:LEU:HD12	3:D9:160:TYR:HB3	1.88	0.55
1:AC:19:LEU:HD12	3:DE:160:TYR:HB3	90.09	0.55
1:AG:19:LEU:HD12	3:DI:160:TYR:HB3	90.09	0.55
1:AH:19:LEU:HD12	3:DJ:160:TYR:HB3	90.09	0.55
1:BG:19:LEU:HD12	3:EC:160:TYR:HB3	1.89	0.55
2:C0:202:LEU:HD11	2:C0:209:VAL:HG21	1.88	0.55
2:CT:202:LEU:HD11	2:CT:209:VAL:HG21	1.88	0.55
2:CP:209:VAL:N	2:CP:210:PRO:CD	2.68	0.55
2:CX:209:VAL:N	2:CX:210:PRO:CD	2.68	0.55
2:CF:202:LEU:HD11	2:CF:209:VAL:HG21	1.88	0.55
2:C8:202:LEU:HD11	2:C8:209:VAL:HG21	1.88	0.55
1:BB:49:THR:HG22	1:BB:50:GLY:N	2.21	0.55
2:C0:73:GLN:HA	2:C0:73:GLN:NE2	2.17	0.55
3:EC:109:ILE:HB	3:EC:205:LEU:HB2	1.88	0.55
3:D9:109:ILE:HB	3:D9:205:LEU:HB2	1.88	0.55
3:DZ:109:ILE:HB	3:DZ:205:LEU:HB2	1.88	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:CC:218:ILE:O	2:CC:219:ASP:HB2	2.06	0.55
2:CG:84:PRO:HD3	2:CG:108:TRP:HZ2	1.71	0.55
1:AL:165:ARG:HB2	3:DN:33:PRO:O	73.76	0.55
2:C9:218:ILE:O	2:C9:219:ASP:HB2	2.06	0.55
1:AO:165:ARG:HB2	3:DO:33:PRO:O	2.06	0.55
1:AK:165:ARG:HB2	3:DM:33:PRO:O	73.76	0.55
1:AR:165:ARG:HB2	3:DR:33:PRO:O	2.07	0.55
1:BG:165:ARG:HB2	3:EC:33:PRO:O	2.06	0.55
1:A6:165:ARG:O	3:D7:34:ARG:HG2	2.05	0.55
1:AZ:165:ARG:O	3:D0:34:ARG:HG2	2.05	0.55
2:CM:75:HIS:HE2	3:DM:59:LYS:HB3	1.71	0.55
3:DN:56:ILE:HG13	3:DN:74:PHE:HE1	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:99:GLN:HB2	3:DA:217:ARG:HG3	1.87	0.55
3:DM:86:HIS:ND1	3:DM:87:GLY:N	2.54	0.55
3:ED:86:HIS:ND1	3:ED:87:GLY:N	2.54	0.55
3:EA:86:HIS:ND1	3:EA:87:GLY:N	2.54	0.55
3:D4:86:HIS:ND1	3:D4:87:GLY:N	2.54	0.55
2:CI:36:TYR:HE2	2:CI:130:PRO:HG3	1.71	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:AH:244:ASN:OD1	3:DH:172:ALA:HB1	2.06	0.55
1:AL:244:ASN:OD1	3:DN:172:ALA:HB1	86.04	0.55
1:AN:244:ASN:OD1	3:DN:172:ALA:HB1	2.06	0.55
1:A9:244:ASN:OD1	3:DA:172:ALA:HB1	239.34	0.55
1:BD:244:ASN:OD1	3:DS:172:ALA:HB1	164.23	0.55
1:A5:80:SER:HB3	1:A5:216:ALA:HA	1.88	0.55
1:AY:80:SER:HB3	1:AY:216:ALA:HA	1.88	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
2:CE:225:PRO:HG2	3:DF:141:CYS:HA	25.55	0.55
1:A7:80:SER:HB3	1:A7:216:ALA:HA	1.88	0.55
1:BE:244:ASN:OD1	3:EA:172:ALA:HB1	2.06	0.55
1:AU:244:ASN:OD1	3:DV:172:ALA:HB1	2.06	0.55
1:BA:80:SER:HB3	1:BA:216:ALA:HA	1.88	0.55
1:AL:80:SER:HB3	1:AL:216:ALA:HA	1.88	0.55
1:BH:244:ASN:OD1	3:ED:172:ALA:HB1	2.06	0.55
1:BB:80:SER:HB3	1:BB:216:ALA:HA	1.88	0.55
2:CC:115:ASN:ND2	3:DN:190:ALA:C	163.31	0.55
2:CC:115:ASN:ND2	3:ED:190:ALA:C	252.93	0.55
2:CT:63:THR:HG22	3:DK:188:LEU:HD21	1.88	0.55
2:CQ:115:ASN:ND2	3:DY:190:ALA:C	116.46	0.55
2:CZ:63:THR:HG22	3:DQ:188:LEU:HD21	84.54	0.55
2:C6:115:ASN:ND2	3:DE:190:ALA:C	2.59	0.55
2:CY:115:ASN:ND2	3:DZ:190:ALA:C	2.59	0.55
2:CP:115:ASN:ND2	3:D1:190:ALA:C	2.59	0.55
1:AB:19:LEU:HD12	3:DD:160:TYR:HB3	90.09	0.55
1:AE:19:LEU:HD12	3:DG:160:TYR:HB3	94.97	0.55
1:AG:19:LEU:HD12	3:DG:160:TYR:HB3	1.88	0.55
1:BB:19:LEU:HD12	3:DQ:160:TYR:HB3	94.27	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:A5:19:LEU:HD12	3:D6:160:TYR:HB3	1.89	0.55
2:CZ:202:LEU:HD11	2:CZ:209:VAL:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CP:202:LEU:HD11	2:CP:209:VAL:HG21	1.88	0.55
2:C1:202:LEU:HD11	2:C1:209:VAL:HG21	1.88	0.55
2:C6:202:LEU:HD11	2:C6:209:VAL:HG21	1.88	0.55
2:C7:202:LEU:HD11	2:C7:209:VAL:HG21	1.88	0.55
1:AZ:49:THR:HG22	1:AZ:50:GLY:N	2.21	0.55
1:AT:208:TYR:CE2	1:AX:103:TRP:HZ2	2.23	0.55
1:BH:49:THR:HG22	1:BH:50:GLY:N	2.21	0.55
2:CR:119:ALA:O	2:CR:205:PRO:HD3	2.06	0.55
3:DD:53:PHE:CE2	3:DD:205:LEU:HD13	2.41	0.55
2:C0:119:ALA:O	2:C0:205:PRO:HD3	2.06	0.55
2:C6:119:ALA:O	2:C6:205:PRO:HD3	2.06	0.55
2:C2:84:PRO:HG3	2:C2:108:TRP:HH2	1.72	0.55
2:CZ:84:PRO:HG3	2:CZ:108:TRP:HH2	1.72	0.55
2:CS:218:ILE:O	2:CS:219:ASP:HB2	2.06	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
1:AH:165:ARG:O	3:DJ:34:ARG:HG2	70.31	0.55
1:AM:165:ARG:HB2	3:DO:33:PRO:O	73.76	0.55
2:CV:218:ILE:O	2:CV:219:ASP:HB2	2.06	0.55
2:CB:218:ILE:O	2:CB:219:ASP:HB2	2.06	0.55
3:DF:74:PHE:O	3:DF:184:GLN:HA	2.07	0.55
3:DP:74:PHE:O	3:DP:184:GLN:HA	2.07	0.55
2:CZ:75:HIS:HE2	3:DZ:59:LYS:HB3	1.71	0.55
1:A2:165:ARG:O	3:D3:34:ARG:HG2	2.05	0.55
2:CR:75:HIS:HE2	3:DR:59:LYS:HB3	1.71	0.55
2:C7:75:HIS:HE2	3:D7:59:LYS:HB3	1.71	0.55
2:CC:75:HIS:HE2	3:DC:59:LYS:HB3	1.71	0.55
3:D9:74:PHE:O	3:D9:184:GLN:HA	2.07	0.55
3:DE:56:ILE:HG13	3:DE:74:PHE:HE1	1.72	0.55
2:CE:75:HIS:HE2	3:DE:59:LYS:HB3	1.71	0.55
3:DJ:74:PHE:O	3:DJ:184:GLN:HA	2.07	0.55
3:DY:99:GLN:HB2	3:DY:217:ARG:HG3	1.87	0.55
3:D3:86:HIS:ND1	3:D3:87:GLY:N	2.54	0.55
3:DB:86:HIS:ND1	3:DB:87:GLY:N	2.54	0.55
3:DS:121:LEU:HD22	3:DS:186:TYR:HB2	1.89	0.55
3:DK:121:LEU:HD22	3:DK:186:TYR:HB2	1.89	0.55
3:DG:121:LEU:HD22	3:DG:186:TYR:HB2	1.89	0.55
3:DR:121:LEU:HD22	3:DR:186:TYR:HB2	1.89	0.55
3:DI:121:LEU:HD22	3:DI:186:TYR:HB2	1.89	0.55
2:CY:36:TYR:HE2	2:CY:130:PRO:HG3	1.71	0.55
2:CQ:36:TYR:HE2	2:CQ:130:PRO:HG3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:244:ASN:OD1	3:DD:172:ALA:HB1	86.04	0.55
1:AH:244:ASN:OD1	3:DJ:172:ALA:HB1	86.04	0.55
1:A4:244:ASN:OD1	3:D5:172:ALA:HB1	2.06	0.55
3:DX:179:VAL:HG12	3:DX:181:GLY:H	1.71	0.55
2:CC:225:PRO:HG2	3:DD:141:CYS:HA	1.89	0.55
1:AG:80:SER:HB3	1:AG:216:ALA:HA	1.88	0.55
3:D3:122:VAL:O	3:D3:143:HIS:HB2	2.05	0.55
1:BI:80:SER:HB3	1:BI:216:ALA:HA	1.88	0.55
1:A8:244:ASN:OD1	3:D9:172:ALA:HB1	2.06	0.55
2:CB:225:PRO:HG2	3:DC:141:CYS:HA	1.89	0.55
1:A4:80:SER:HB3	1:A4:216:ALA:HA	1.88	0.55
2:CJ:63:THR:HG22	3:DM:188:LEU:HD21	230.37	0.55
2:CR:115:ASN:ND2	3:EE:190:ALA:C	2.59	0.55
2:CT:63:THR:HG22	3:DH:188:LEU:HD21	224.53	0.55
2:CU:60:ARG:O	2:CU:216:ALA:HB1	2.07	0.55
2:CU:115:ASN:ND2	3:DG:190:ALA:C	252.13	0.55
2:CD:63:THR:HG22	3:D4:188:LEU:HD21	140.81	0.55
2:CX:60:ARG:O	2:CX:216:ALA:HB1	2.07	0.55
2:C6:63:THR:HG22	3:DE:188:LEU:HD21	1.87	0.55
2:CS:115:ASN:ND2	3:DC:190:ALA:C	263.67	0.55
2:C4:60:ARG:O	2:C4:216:ALA:HB1	2.07	0.55
1:AM:19:LEU:HD12	3:DO:160:TYR:HB3	90.09	0.55
1:AN:19:LEU:HD12	3:DB:160:TYR:HB3	179.94	0.55
1:BH:19:LEU:HD12	3:ED:160:TYR:HB3	1.89	0.55
1:A7:19:LEU:HD12	3:D8:160:TYR:HB3	1.88	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
2:CA:202:LEU:HD11	2:CA:209:VAL:HG21	1.88	0.55
1:BD:49:THR:HG22	1:BD:50:GLY:N	2.21	0.55
1:A2:49:THR:HG22	1:A2:50:GLY:N	2.21	0.55
1:AQ:49:THR:HG22	1:AQ:50:GLY:N	2.21	0.55
1:A9:30:VAL:HG13	1:A9:218:MET:HE2	1.89	0.55
3:D5:61:TYR:HB3	3:D5:205:LEU:HD23	1.87	0.55
2:CQ:27:GLN:CG	2:CQ:28:GLY:N	2.70	0.55
3:DC:109:ILE:HB	3:DC:205:LEU:HB2	1.88	0.55
3:D6:53:PHE:CE2	3:D6:205:LEU:HD13	2.41	0.55
2:CD:84:PRO:HG3	2:CD:108:TRP:HH2	1.72	0.55
2:CF:84:PRO:HG3	2:CF:108:TRP:HH2	1.72	0.55
2:C8:218:ILE:O	2:C8:219:ASP:HB2	2.06	0.55
2:C6:84:PRO:HG3	2:C6:108:TRP:HH2	1.72	0.55
2:C6:84:PRO:HD3	2:C6:108:TRP:HZ2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:165:ARG:HB2	3:DL:33:PRO:O	228.22	0.55
1:AK:165:ARG:HB2	3:DK:33:PRO:O	2.07	0.55
1:AO:165:ARG:HB2	3:DS:33:PRO:O	88.39	0.55
1:AA:165:ARG:HB2	3:DC:33:PRO:O	73.76	0.55
3:DG:74:PHE:O	3:DG:184:GLN:HA	2.07	0.55
2:C5:218:ILE:O	2:C5:219:ASP:HB2	2.06	0.55
1:A2:165:ARG:HB2	3:D3:33:PRO:O	2.07	0.55
3:D7:74:PHE:O	3:D7:184:GLN:HA	2.07	0.55
2:C0:75:HIS:HE2	3:D0:59:LYS:HB3	1.71	0.55
3:DW:74:PHE:O	3:DW:184:GLN:HA	2.07	0.55
3:DS:74:PHE:O	3:DS:184:GLN:HA	2.07	0.55
3:DB:74:PHE:O	3:DB:184:GLN:HA	2.07	0.55
3:DP:99:GLN:HB2	3:DP:217:ARG:HG3	1.87	0.55
3:DX:86:HIS:ND1	3:DX:87:GLY:N	2.54	0.55
2:CS:225:PRO:HG2	3:DT:141:CYS:HA	1.89	0.55
3:DZ:86:HIS:ND1	3:DZ:87:GLY:N	2.54	0.55
4:FI:25:PHE:CE1	4:FJ:22:VAL:HB	2.42	0.55
3:DF:121:LEU:HD22	3:DF:186:TYR:HB2	1.89	0.55
3:EC:121:LEU:HD22	3:EC:186:TYR:HB2	1.88	0.55
3:DC:121:LEU:HD22	3:DC:186:TYR:HB2	1.89	0.55
3:DP:121:LEU:HD22	3:DP:186:TYR:HB2	1.89	0.55
3:D3:121:LEU:HD22	3:D3:186:TYR:HB2	1.89	0.55
2:CY:36:TYR:CE2	2:CY:130:PRO:HG2	2.42	0.55
2:CR:36:TYR:HE2	2:CR:130:PRO:HG3	1.71	0.55
2:CV:36:TYR:CE2	2:CV:130:PRO:HG2	2.42	0.55
2:CV:36:TYR:HE2	2:CV:130:PRO:HG3	1.71	0.55
2:CS:36:TYR:CE2	2:CS:130:PRO:HG2	2.42	0.55
2:CX:36:TYR:HE2	2:CX:130:PRO:HG3	1.71	0.55
2:CG:36:TYR:CE2	2:CG:130:PRO:HG2	2.42	0.55
2:C0:36:TYR:CE2	2:C0:130:PRO:HG2	2.42	0.55
2:CJ:36:TYR:CE2	2:CJ:130:PRO:HG2	2.42	0.55
2:CO:225:PRO:HG2	3:DP:141:CYS:HA	25.55	0.55
2:CJ:225:PRO:HG2	3:DK:141:CYS:HA	259.95	0.55
3:D5:179:VAL:HG12	3:D5:181:GLY:H	1.71	0.55
2:CL:225:PRO:HG2	3:DM:141:CYS:HA	1.89	0.55
1:AX:244:ASN:OD1	3:DY:172:ALA:HB1	2.06	0.55
3:EB:122:VAL:O	3:EB:143:HIS:HB2	2.05	0.55
1:AM:80:SER:HB3	1:AM:216:ALA:HA	1.88	0.55
3:D6:122:VAL:O	3:D6:143:HIS:HB2	2.05	0.55
1:AF:80:SER:HB3	1:AF:216:ALA:HA	1.88	0.55
2:C8:63:THR:HG22	3:D9:188:LEU:HD21	1.87	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:CH:115:ASN:ND2	3:DS:190:ALA:C	163.31	0.55
2:CD:115:ASN:ND2	3:D7:190:ALA:C	2.59	0.55
2:CO:60:ARG:O	2:CO:216:ALA:HB1	2.07	0.55
2:CX:63:THR:HG22	3:DO:188:LEU:HD21	204.52	0.55
2:C1:63:THR:HG22	3:DO:188:LEU:HD21	1.87	0.55
1:AS:102:VAL:HG22	1:AS:199:SER:CB	2.31	0.55
3:DY:42:ASN:HD22	3:DY:44:ILE:HG22	1.65	0.55
2:CK:202:LEU:HD11	2:CK:209:VAL:HG21	1.88	0.55
1:AU:103:TRP:HZ2	1:AV:208:TYR:CE2	2.23	0.55
2:CU:73:GLN:HA	2:CU:73:GLN:NE2	2.17	0.55
3:EA:61:TYR:HB3	3:EA:205:LEU:HD23	1.87	0.55
2:CP:27:GLN:CG	2:CP:28:GLY:N	2.70	0.55
2:CC:27:GLN:CG	2:CC:28:GLY:N	2.70	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
2:CG:27:GLN:CG	2:CG:28:GLY:N	2.70	0.55
2:CA:27:GLN:CG	2:CA:28:GLY:N	2.70	0.55
3:DC:53:PHE:CE2	3:DC:205:LEU:HD13	2.41	0.55
1:BI:30:VAL:HG13	1:BI:218:MET:HE2	1.87	0.55
2:CL:84:PRO:HG3	2:CL:108:TRP:HH2	1.72	0.55
2:CO:84:PRO:HG3	2:CO:108:TRP:HH2	1.72	0.55
2:CS:84:PRO:HG3	2:CS:108:TRP:HH2	1.72	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:BD:165:ARG:HB2	3:DS:33:PRO:O	138.52	0.55
1:AP:165:ARG:HB2	3:DP:33:PRO:O	2.07	0.55
2:CW:84:PRO:HG3	2:CW:108:TRP:HH2	1.72	0.55
1:A8:165:ARG:HB2	3:D9:33:PRO:O	2.06	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
2:C1:75:HIS:HE2	3:D1:59:LYS:HB3	1.71	0.55
3:D0:74:PHE:O	3:D0:184:GLN:HA	2.07	0.55
3:DO:74:PHE:O	3:DO:184:GLN:HA	2.07	0.55
3:DT:74:PHE:O	3:DT:184:GLN:HA	2.07	0.55
3:DM:56:ILE:HG13	3:DM:74:PHE:HE1	1.72	0.55
3:DD:74:PHE:O	3:DD:184:GLN:HA	2.07	0.55
3:DI:74:PHE:O	3:DI:184:GLN:HA	2.07	0.55
1:AK:239:PHE:HD2	3:DM:226:GLN:NE2	81.05	0.55
2:CX:225:PRO:HG2	3:EA:141:CYS:HA	142.09	0.55
4:FF:22:VAL:HB	4:FJ:25:PHE:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:121:LEU:HD22	3:DB:186:TYR:HB2	1.89	0.55
3:D9:121:LEU:HD22	3:D9:186:TYR:HB2	1.89	0.55
4:FK:25:PHE:CE1	4:FL:22:VAL:HB	2.42	0.55
3:EA:121:LEU:HD22	3:EA:186:TYR:HB2	1.89	0.55
3:D8:121:LEU:HD22	3:D8:186:TYR:HB2	1.89	0.55
2:CI:36:TYR:CE2	2:CI:130:PRO:HG2	2.42	0.55
2:C8:36:TYR:CE2	2:C8:130:PRO:HG2	2.42	0.55
1:AM:176:ALA:HB1	3:DN:174:ALA:O	2.07	0.55
1:AH:176:ALA:HB1	3:DK:174:ALA:O	264.83	0.55
1:AE:244:ASN:OD1	3:DG:172:ALA:HB1	119.23	0.55
2:CJ:225:PRO:HG2	3:DF:141:CYS:HA	1.89	0.55
1:BF:80:SER:HB3	1:BF:216:ALA:HA	1.88	0.55
1:AQ:244:ASN:OD1	3:DQ:172:ALA:HB1	2.06	0.55
3:DF:122:VAL:O	3:DF:143:HIS:HB2	2.05	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
2:CA:225:PRO:HG2	3:DB:141:CYS:HA	1.89	0.55
2:CH:63:THR:HG22	3:DN:188:LEU:HD21	254.62	0.55
2:CI:115:ASN:ND2	3:DJ:190:ALA:C	65.90	0.55
2:CK:115:ASN:ND2	3:DB:190:ALA:C	263.78	0.55
2:CR:63:THR:HG22	3:EE:188:LEU:HD21	1.88	0.55
2:C5:115:ASN:ND2	3:DG:190:ALA:C	2.59	0.55
2:CD:60:ARG:O	2:CD:216:ALA:HB1	2.07	0.55
2:CN:63:THR:HG22	3:DE:188:LEU:HD21	254.80	0.55
2:CB:115:ASN:CA	3:DT:119:LYS:HD2	257.30	0.55
2:CF:115:ASN:ND2	3:D6:190:ALA:C	2.60	0.55
1:AJ:19:LEU:HD12	3:DJ:160:TYR:HB3	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
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:FY:28:GLN:O	4:FY:29:GLN:HG3	2.07	0.55
2:CU:202:LEU:HD11	2:CU:209:VAL:HG21	1.88	0.55
2:CW:202:LEU:HD11	2:CW:209:VAL:HG21	1.88	0.55
2:CO:209:VAL:N	2:CO:210:PRO:CD	2.68	0.55
1:BC:103:TRP:HZ2	1:BD:208:TYR:CE2	2.23	0.55
3:DP:109:ILE:HB	3:DP:205:LEU:HB2	1.88	0.55
2:CD:27:GLN:CG	2:CD:28:GLY:N	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DK:109:ILE:HB	3:DK:205:LEU:HB2	1.88	0.55
2:C1:27:GLN:CG	2:C1:28:GLY:N	2.70	0.55
2:CE:27:GLN:CG	2:CE:28:GLY:N	2.70	0.55
2:CN:84:PRO:HG3	2:CN:108:TRP:HH2	1.72	0.55
2:CI:84:PRO:HG3	2:CI:108:TRP:HH2	1.72	0.55
2:CS:84:PRO:HD3	2:CS:108:TRP:HZ2	1.71	0.55
1:AB:165:ARG:HB2	3:DB:33:PRO:O	2.07	0.55
1:AB:165:ARG:HB2	3:DD:33:PRO:O	73.76	0.55
2:C9:84:PRO:HD3	2:C9:108:TRP:HZ2	1.71	0.55
3:DP:56:ILE:HG13	3:DP:74:PHE:HE1	1.72	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
2:CE:84:PRO:HG3	2:CE:108:TRP:HH2	1.72	0.55
1:AY:165:ARG:HB2	3:DZ:33:PRO:O	2.07	0.55
3:D4:74:PHE:O	3:D4:184:GLN:HA	2.07	0.55
3:D2:56:ILE:HG13	3:D2:74:PHE:HE1	1.72	0.55
1:AS:165:ARG:HB2	3:DT:33:PRO:O	2.07	0.55
3:DC:74:PHE:O	3:DC:184:GLN:HA	2.07	0.55
2:CO:75:HIS:HE2	3:DO:59:LYS:HB3	1.71	0.55
3:DE:74:PHE:O	3:DE:184:GLN:HA	2.07	0.55
2:CW:69:TRP:CH2	2:CW:124:LEU:HG	2.42	0.55
3:DQ:56:ILE:HG13	3:DQ:74:PHE:HE1	1.72	0.55
3:DD:56:ILE:HG13	3:DD:74:PHE:HE1	1.72	0.55
2:CX:75:HIS:HE2	3:DX:59:LYS:HB3	1.71	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
3:DV:99:GLN:HB2	3:DV:217:ARG:HG3	1.87	0.55
2:CX:225:PRO:HG2	3:DY:141:CYS:HA	1.89	0.55
4:FO:25:PHE:CE1	4:FP:22:VAL:HB	112.47	0.55
3:DA:121:LEU:HD22	3:DA:186:TYR:HB2	1.89	0.55
4:FC:25:PHE:CE1	4:FD:22:VAL:HB	2.42	0.55
3:DL:121:LEU:HD22	3:DL:186:TYR:HB2	1.89	0.55
4:FW:25:PHE:CE1	4:FX:22:VAL:HB	2.42	0.55
3:DH:121:LEU:HD22	3:DH:186:TYR:HB2	1.89	0.55
3:DV:121:LEU:HD22	3:DV:186:TYR:HB2	1.89	0.55
4:F6:25:PHE:CE1	4:F7:22:VAL:HB	2.42	0.55
2:CR:36:TYR:CE2	2:CR:130:PRO:HG2	2.42	0.55
2:CU:36:TYR:CE2	2:CU:130:PRO:HG2	2.42	0.55
2:CH:36:TYR:CE2	2:CH:130:PRO:HG2	2.42	0.55
2:CC:36:TYR:CE2	2:CC:130:PRO:HG2	2.42	0.55
3:DU:121:LEU:HD22	3:DU:186:TYR:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:36:TYR:HE2	2:C0:130:PRO:HG3	1.71	0.55
1:AJ:176:ALA:HB1	3:DM:174:ALA:O	263.20	0.55
1:AK:176:ALA:HB1	3:DN:174:ALA:O	97.62	0.55
2:CW:36:TYR:CE2	2:CW:130:PRO:HG2	2.42	0.55
1:AG:176:ALA:HB1	3:DH:174:ALA:O	2.07	0.55
2:CA:36:TYR:HE2	2:CA:130:PRO:HG3	1.71	0.55
2:CM:36:TYR:CE2	2:CM:130:PRO:HG2	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:AP:244:ASN:OD1	3:DP:172:ALA:HB1	2.06	0.55
1:A8:80:SER:HB3	1:A8:216:ALA:HA	1.88	0.55
3:D7:122:VAL:O	3:D7:143:HIS:HB2	2.05	0.55
1:A3:244:ASN:OD1	3:D4:172:ALA:HB1	2.06	0.55
2:CT:60:ARG:O	2:CT:216:ALA:HB1	2.07	0.55
2:CO:63:THR:HG22	3:DP:188:LEU:HD21	1.87	0.55
2:CG:60:ARG:O	2:CG:216:ALA:HB1	2.07	0.55
2:C9:115:ASN:ND2	3:DL:190:ALA:C	94.27	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	145.25	0.55
2:CP:115:ASN:ND2	3:D0:190:ALA:C	91.22	0.55
1:AC:19:LEU:HD12	3:DC:160:TYR:HB3	1.89	0.55
1:AO:19:LEU:HD12	3:DS:160:TYR:HB3	148.97	0.55
1:AB:19:LEU:HD12	3:DB:160:TYR:HB3	1.89	0.55
4:FB:28:GLN:O	4:FB:29:GLN:HG3	2.07	0.55
4:FH:28:GLN:O	4:FH:29:GLN:HG3	2.07	0.55
4:FI:28:GLN:O	4:FI:29:GLN:HG3	2.07	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:FN:28:GLN:O	4:FN:29:GLN:HG3	2.07	0.55
4:FQ:28:GLN:O	4:FQ:29:GLN:HG3	2.07	0.55
4:F3:28:GLN:O	4:F3:29:GLN:HG3	2.07	0.55
2:CE:202:LEU:HD11	2:CE:209:VAL:HG21	1.88	0.55
1:AG:181:LYS:HA	2:CI:137:GLU:HG3	101.01	0.55
3:DV:109:ILE:HB	3:DV:205:LEU:HB2	1.88	0.55
2:CT:27:GLN:CG	2:CT:28:GLY:N	2.70	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:DZ:53:PHE:CE2	3:DZ:205:LEU:HD13	2.41	0.55
2:CW:27:GLN:CG	2:CW:28:GLY:N	2.70	0.55
2:C8:119:ALA:O	2:C8:205:PRO:HD3	2.06	0.55
3:D6:109:ILE:HB	3:D6:205:LEU:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D0:61:TYR:HB3	3:D0:205:LEU:HD23	1.87	0.55
2:C8:84:PRO:HD3	2:C8:108:TRP:HZ2	1.71	0.55
2:CC:84:PRO:HG3	2:CC:108:TRP:HH2	1.72	0.55
2:CM:218:ILE:O	2:CM:219:ASP:HB2	2.06	0.55
1:AM:165:ARG:HB2	3:DM:33:PRO:O	2.06	0.55
3:DG:56:ILE:HG13	3:DG:74:PHE:HE1	1.72	0.55
2:CB:84:PRO:HG3	2:CB:108:TRP:HH2	1.72	0.55
2:CU:75:HIS:HE2	3:DU:59:LYS:HB3	1.71	0.55
2:CU:75:HIS:HE2	3:EB:59:LYS:HB3	260.90	0.55
2:CV:69:TRP:CH2	2:CV:124:LEU:HG	2.42	0.55
2:C4:69:TRP:CH2	2:C4:124:LEU:HG	2.42	0.55
3:DH:74:PHE:O	3:DH:184:GLN:HA	2.07	0.55
3:ED:56:ILE:HG13	3:ED:74:PHE:HE1	1.72	0.55
3:DQ:74:PHE:O	3:DQ:184:GLN:HA	2.07	0.55
3:DL:74:PHE:O	3:DL:184:GLN:HA	2.07	0.55
3:DI:56:ILE:HG13	3:DI:74:PHE:HE1	1.72	0.55
1:BE:239:PHE:HD2	3:EA:226:GLN:NE2	2.05	0.55
1:AA:239:PHE:HD2	3:DC:226:GLN:NE2	81.05	0.55
1:AK:239:PHE:HD2	3:DK:226:GLN:NE2	2.05	0.55
1:AO:239:PHE:HD2	3:DO:226:GLN:NE2	2.05	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
4:FA:25:PHE:CE1	4:FB:22:VAL:HB	2.42	0.55
4:F9:22:VAL:HB	4:FD:25:PHE:HE1	194.67	0.55
4:F3:25:PHE:HE1	4:FZ:22:VAL:HB	1.72	0.55
4:FA:22:VAL:HB	4:FE:25:PHE:CE1	2.42	0.55
3:DD:121:LEU:HD22	3:DD:186:TYR:HB2	1.89	0.55
4:F2:25:PHE:HE1	4:F3:22:VAL:HB	1.72	0.55
3:DO:121:LEU:HD22	3:DO:186:TYR:HB2	1.89	0.55
4:FK:25:PHE:HE1	4:FL:22:VAL:HB	1.72	0.55
3:ED:121:LEU:HD22	3:ED:186:TYR:HB2	1.89	0.55
4:FB:25:PHE:HE1	4:FC:22:VAL:HB	1.72	0.55
3:EB:121:LEU:HD22	3:EB:186:TYR:HB2	1.89	0.55
4:F6:25:PHE:HE1	4:F7:22:VAL:HB	1.72	0.55
3:DX:121:LEU:HD22	3:DX:186:TYR:HB2	1.89	0.55
4:F0:22:VAL:HB	4:FZ:25:PHE:HE1	1.72	0.55
4:F0:22:VAL:HB	4:FZ:25:PHE:CE1	2.42	0.55
2:C5:36:TYR:HE2	2:C5:130:PRO:HG3	1.71	0.55
2:CN:36:TYR:CE2	2:CN:130:PRO:HG2	2.42	0.55
2:CZ:36:TYR:CE2	2:CZ:130:PRO:HG2	2.42	0.55
1:AL:176:ALA:HB1	3:DM:174:ALA:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:176:ALA:HB1	3:DI:174:ALA:O	97.62	0.55
1:AW:176:ALA:HB1	3:DY:174:ALA:O	2.07	0.55
1:AN:244:ASN:OD1	3:DB:172:ALA:HB1	217.84	0.55
1:AC:244:ASN:OD1	3:DE:172:ALA:HB1	86.04	0.55
1:BB:244:ASN:OD1	3:DQ:172:ALA:HB1	117.15	0.55
1:AX:80:SER:HB3	1:AX:216:ALA:HA	1.88	0.55
2:CP:225:PRO:HG2	3:DQ:141:CYS:HA	1.89	0.55
2:CM:225:PRO:HG2	3:DN:141:CYS:HA	1.89	0.55
3:EA:179:VAL:HG12	3:EA:181:GLY:H	1.71	0.55
1:AC:80:SER:HB3	1:AC:216:ALA:HA	1.88	0.55
1:BF:244:ASN:OD1	3:EB:172:ALA:HB1	2.06	0.55
3:DW:179:VAL:HG12	3:DW:181:GLY:H	1.71	0.55
2:CM:60:ARG:O	2:CM:216:ALA:HB1	2.07	0.55
2:CV:60:ARG:O	2:CV:216:ALA:HB1	2.07	0.55
2:CF:60:ARG:O	2:CF:216:ALA:HB1	2.07	0.55
2:C4:115:ASN:ND2	3:EC:190:ALA:C	2.59	0.55
1:BD:19:LEU:HD12	3:DS:160:TYR:HB3	142.86	0.55
1:A1:19:LEU:HD12	3:D2:160:TYR:HB3	1.89	0.55
1:AF:157:SER:CB	3:DF:24:PRO:HA	2.35	0.55
1:AH:157:SER:CB	3:DH:24:PRO:HA	2.36	0.55
1:BC:157:SER:CB	3:DR:24:PRO:HA	140.86	0.55
4:FA:28:GLN:O	4:FA:29:GLN:HG3	2.07	0.55
4:FF:28:GLN:O	4:FF:29:GLN:HG3	2.07	0.55
4:FT:28:GLN:O	4:FT:29:GLN:HG3	2.07	0.55
4:FW:28:GLN:O	4:FW:29:GLN:HG3	2.07	0.55
4:F5:28:GLN:O	4:F5:29:GLN:HG3	2.07	0.55
2:CI:73:GLN:HA	2:CI:73:GLN:NE2	2.17	0.55
3:DN:109:ILE:HB	3:DN:205:LEU:HB2	1.88	0.55
3:DT:109:ILE:HB	3:DT:205:LEU:HB2	1.88	0.55
2:CK:27:GLN:CG	2:CK:28:GLY:N	2.70	0.55
2:CB:27:GLN:CG	2:CB:28:GLY:N	2.70	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:CD:218:ILE:O	2:CD:219:ASP:HB2	2.06	0.55
2:C7:84:PRO:HG3	2:C7:108:TRP:HH2	1.72	0.55
1:AF:165:ARG:HB2	3:DF:33:PRO:O	2.06	0.55
1:A0:165:ARG:HB2	3:D1:33:PRO:O	2.06	0.55
1:A9:165:ARG:HB2	3:DA:33:PRO:O	222.98	0.55
2:CV:84:PRO:HG3	2:CV:108:TRP:HH2	1.72	0.55
1:BA:165:ARG:HB2	3:DP:33:PRO:O	98.55	0.55
2:CP:69:TRP:CH2	2:CP:124:LEU:HG	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CZ:69:TRP:CH2	2:CZ:124:LEU:HG	2.42	0.55
2:CQ:75:HIS:HE2	3:DQ:59:LYS:HB3	1.71	0.55
2:CD:69:TRP:CH2	2:CD:124:LEU:HG	2.42	0.55
1:AI:239:PHE:HD2	3:DI:226:GLN:NE2	2.05	0.55
1:AB:239:PHE:HD2	3:DD:226:GLN:NE2	81.05	0.55
1:AD:239:PHE:HD2	3:DF:226:GLN:NE2	135.72	0.55
1:AH:239:PHE:HD2	3:DH:226:GLN:NE2	2.05	0.55
1:AH:239:PHE:HD2	3:DJ:226:GLN:NE2	81.05	0.55
1:AN:239:PHE:HD2	3:DN:226:GLN:NE2	2.05	0.55
1:AW:239:PHE:HD2	3:DX:226:GLN:NE2	2.05	0.55
1:BB:239:PHE:HD2	3:DQ:226:GLN:NE2	124.38	0.55
3:D2:86:HIS:ND1	3:D2:87:GLY:N	2.54	0.55
4:FR:25:PHE:HE1	4:FS:22:VAL:HB	1.72	0.55
4:FJ:22:VAL:HB	4:FN:25:PHE:CE1	236.76	0.55
4:FQ:25:PHE:CE1	4:FR:22:VAL:HB	2.42	0.55
4:FP:25:PHE:CE1	4:FQ:22:VAL:HB	2.42	0.55
2:C3:36:TYR:CE2	2:C3:130:PRO:HG2	2.42	0.55
2:CP:36:TYR:CE2	2:CP:130:PRO:HG2	2.42	0.55
2:CH:36:TYR:HE2	2:CH:130:PRO:HG3	1.71	0.55
2:C2:36:TYR:CE2	2:C2:130:PRO:HG2	2.42	0.55
2:CX:36:TYR:CE2	2:CX:130:PRO:HG2	2.42	0.55
1:AA:176:ALA:HB1	3:DD:174:ALA:O	97.62	0.55
1:AT:176:ALA:HB1	3:DV:174:ALA:O	2.07	0.55
1:A4:176:ALA:HB1	3:D6:174:ALA:O	2.07	0.55
1:A1:176:ALA:HB1	3:D3:174:ALA:O	2.07	0.55
1:AA:244:ASN:OD1	3:DA:172:ALA:HB1	2.06	0.55
1:AC:244:ASN:OD1	3:DC:172:ALA:HB1	2.06	0.55
2:C2:60:ARG:O	2:C2:216:ALA:HB1	2.07	0.55
1:BG:80:SER:HB3	1:BG:216:ALA:HA	1.88	0.55
3:DI:179:VAL:HG12	3:DI:181:GLY:H	1.71	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
1:A9:80:SER:HB3	1:A9:216:ALA:HA	1.88	0.55
2:C8:225:PRO:HG2	3:D4:141:CYS:HA	1.89	0.55
3:D0:122:VAL:O	3:D0:143:HIS:HB2	2.05	0.55
2:CC:60:ARG:O	2:CC:216:ALA:HB1	2.07	0.55
2:CW:60:ARG:O	2:CW:216:ALA:HB1	2.07	0.55
2:CQ:60:ARG:O	2:CQ:216:ALA:HB1	2.07	0.55
2:C9:115:ASN:C	3:DL:119:LYS:HZ3	90.38	0.55
2:C9:60:ARG:O	2:C9:216:ALA:HB1	2.07	0.55
2:CN:60:ARG:O	2:CN:216:ALA:HB1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:60:ARG:O	2:CB:216:ALA:HB1	2.07	0.55
1:A9:19:LEU:HD12	3:DA:160:TYR:HB3	207.63	0.55
1:AE:19:LEU:HD12	3:DE:160:TYR:HB3	1.89	0.55
1:AU:19:LEU:HD12	3:DV:160:TYR:HB3	1.88	0.55
1:AL:157:SER:CB	3:DL:24:PRO:HA	2.36	0.55
1:AT:157:SER:CB	3:DU:24:PRO:HA	2.36	0.55
1:A0:157:SER:CB	3:D1:24:PRO:HA	2.35	0.55
2:C9:202:LEU:HD11	2:C9:209:VAL:HG21	1.88	0.55
2:CL:209:VAL:N	2:CL:210:PRO:CD	2.68	0.55
1:AG:181:LYS:HA	2:CG:137:GLU:HG3	1.89	0.55
1:AK:103:TRP:HB2	1:AK:198:THR:HG22	1.89	0.55
3:D3:53:PHE:CE2	3:D3:205:LEU:HD13	2.41	0.55
2:CO:27:GLN:CG	2:CO:28:GLY:N	2.70	0.55
2:C8:27:GLN:CG	2:C8:28:GLY:N	2.70	0.55
3:D4:109:ILE:HB	3:D4:205:LEU:HB2	1.88	0.55
3:D1:109:ILE:HB	3:D1:205:LEU:HB2	1.88	0.55
2:CJ:27:GLN:CG	2:CJ:28:GLY:N	2.70	0.55
2:CF:27:GLN:CG	2:CF:28:GLY:N	2.70	0.55
3:D2:109:ILE:HB	3:D2:205:LEU:HB2	1.88	0.55
2:CU:27:GLN:CG	2:CU:28:GLY:N	2.70	0.55
1:BE:30:VAL:HG13	1:BE:218:MET:HE2	1.87	0.55
2:CP:218:ILE:O	2:CP:219:ASP:HB2	2.06	0.55
2:CY:218:ILE:O	2:CY:219:ASP:HB2	2.06	0.55
2:CI:218:ILE:O	2:CI:219:ASP:HB2	2.06	0.55
1:AG:165:ARG:HB2	3:DG:33:PRO:O	2.07	0.55
1:BB:181:LYS:HA	2:CQ:137:GLU:HG3	141.47	0.55
2:CF:69:TRP:CH2	2:CF:124:LEU:HG	2.42	0.55
1:A4:181:LYS:HA	2:C5:137:GLU:HG3	1.90	0.55
2:C9:75:HIS:HE2	3:D9:59:LYS:HB3	1.71	0.55
3:EA:74:PHE:O	3:EA:184:GLN:HA	2.07	0.55
1:AZ:165:ARG:HB2	3:D0:33:PRO:O	2.06	0.55
1:A5:165:ARG:HB2	3:D6:33:PRO:O	2.06	0.55
2:CM:69:TRP:CH2	2:CM:124:LEU:HG	2.42	0.55
3:DM:74:PHE:O	3:DM:184:GLN:HA	2.07	0.55
2:CX:69:TRP:CH2	2:CX:124:LEU:HG	2.42	0.55
2:CI:69:TRP:CH2	2:CI:124:LEU:HG	2.42	0.55
1:AG:239:PHE:HD2	3:DI:226:GLN:NE2	81.05	0.55
1:BD:239:PHE:HD2	3:DS:226:GLN:NE2	166.28	0.55
1:AE:239:PHE:HD2	3:DE:226:GLN:NE2	2.05	0.55
1:BH:239:PHE:HD2	3:ED:226:GLN:NE2	2.05	0.55
4:FE:22:VAL:HB	4:FI:25:PHE:CE1	113.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FJ:22:VAL:HB	4:FN:25:PHE:HE1	236.36	0.55
4:FT:22:VAL:HB	4:FX:25:PHE:CE1	200.64	0.55
4:FH:25:PHE:CE1	4:FI:22:VAL:HB	2.42	0.55
4:FU:22:VAL:HB	4:FY:25:PHE:CE1	2.42	0.55
4:FU:25:PHE:CE1	4:FV:22:VAL:HB	2.42	0.55
4:FG:25:PHE:HE1	4:FH:22:VAL:HB	1.72	0.55
4:FL:25:PHE:CE1	4:FM:22:VAL:HB	2.42	0.55
2:CF:36:TYR:CE2	2:CF:130:PRO:HG2	2.42	0.55
2:CB:36:TYR:CE2	2:CB:130:PRO:HG2	2.42	0.55
2:CK:36:TYR:CE2	2:CK:130:PRO:HG2	2.42	0.55
1:AJ:176:ALA:HB1	3:DF:174:ALA:O	2.07	0.55
1:AS:176:ALA:HB1	3:DP:174:ALA:O	2.07	0.55
2:CA:36:TYR:CE2	2:CA:130:PRO:HG2	2.42	0.55
2:C9:36:TYR:CE2	2:C9:130:PRO:HG2	2.42	0.55
2:C9:36:TYR:HE2	2:C9:130:PRO:HG3	1.71	0.55
1:AA:244:ASN:OD1	3:DC:172:ALA:HB1	86.04	0.55
2:CT:225:PRO:HG2	3:EB:141:CYS:HA	223.57	0.55
1:BE:80:SER:HB3	1:BE:216:ALA:HA	1.88	0.55
2:CY:225:PRO:HG2	3:DU:141:CYS:HA	1.89	0.55
2:CR:225:PRO:HG2	3:DS:141:CYS:HA	1.89	0.55
3:EC:179:VAL:HG12	3:EC:181:GLY:H	1.71	0.55
1:AV:244:ASN:OD1	3:DW:172:ALA:HB1	2.06	0.55
2:CG:225:PRO:HG2	3:DH:141:CYS:HA	1.89	0.55
3:DH:107:ASN:HA	3:DH:154:PHE:O	2.08	0.55
1:BI:244:ASN:OD1	3:EE:172:ALA:HB1	2.06	0.55
2:CI:63:THR:HG22	3:DJ:188:LEU:HD21	44.40	0.54
2:CA:63:THR:HG22	3:DL:188:LEU:HD21	253.98	0.54
3:DC:101:ARG:HA	3:DC:160:TYR:HE2	1.73	0.54
1:AD:19:LEU:HD12	3:DF:160:TYR:HB3	115.77	0.54
1:AI:19:LEU:HD12	3:DI:160:TYR:HB3	1.89	0.54
3:D3:101:ARG:HA	3:D3:160:TYR:HE2	1.72	0.54
1:AA:157:SER:CB	3:DA:24:PRO:HA	2.36	0.54
1:AS:157:SER:CB	3:DT:24:PRO:HA	2.36	0.54
3:DG:42:ASN:HD22	3:DG:44:ILE:HG22	1.65	0.54
1:A9:181:LYS:HA	2:CA:137:GLU:HG3	273.27	0.54
1:AO:103:TRP:HB2	1:AO:198:THR:HG22	1.89	0.54
1:A8:103:TRP:HB2	1:A8:198:THR:HG22	1.89	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
2:CN:27:GLN:CG	2:CN:28:GLY:N	2.70	0.54
2:C7:27:GLN:CG	2:C7:28:GLY:N	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:84:PRO:HG3	2:CT:108:TRP:HH2	1.72	0.54
2:CP:84:PRO:HG3	2:CP:108:TRP:HH2	1.72	0.54
2:CY:84:PRO:HG3	2:CY:108:TRP:HH2	1.72	0.54
1:BH:181:LYS:HA	2:CW:137:GLU:HG3	244.83	0.54
1:AD:165:ARG:HB2	3:DF:33:PRO:O	99.07	0.54
1:AH:165:ARG:HB2	3:DJ:33:PRO:O	73.76	0.54
1:AA:165:ARG:HB2	3:DA:33:PRO:O	2.06	0.54
1:AG:165:ARG:HB2	3:DI:33:PRO:O	73.76	0.54
1:BI:165:ARG:HB2	3:EE:33:PRO:O	2.06	0.54
2:CG:69:TRP:CH2	2:CG:124:LEU:HG	2.42	0.54
1:A8:165:ARG:O	3:D9:34:ARG:HG2	2.05	0.54
2:CU:69:TRP:CH2	2:CU:124:LEU:HG	2.42	0.54
3:DA:74:PHE:O	3:DA:184:GLN:HA	2.07	0.54
3:DK:74:PHE:O	3:DK:184:GLN:HA	2.07	0.54
2:C5:84:PRO:HD3	2:C5:108:TRP:HZ2	1.71	0.54
3:D3:74:PHE:O	3:D3:184:GLN:HA	2.07	0.54
1:A2:181:LYS:HA	2:C3:137:GLU:HG3	1.89	0.54
2:CQ:69:TRP:CH2	2:CQ:124:LEU:HG	2.42	0.54
1:A5:181:LYS:HA	2:C6:137:GLU:HG3	1.89	0.54
1:BB:165:ARG:HB2	3:DQ:33:PRO:O	119.70	0.54
1:AI:86:ILE:HD12	1:AI:86:ILE:H	1.73	0.54
1:AY:181:LYS:HA	2:CZ:137:GLU:HG3	1.89	0.54
1:AJ:239:PHE:HD2	3:DL:226:GLN:NE2	284.76	0.54
1:AN:239:PHE:HD2	3:DB:226:GLN:NE2	219.85	0.54
1:AP:239:PHE:HD2	3:DP:226:GLN:NE2	2.05	0.54
2:CQ:225:PRO:HG2	3:DR:141:CYS:HA	1.89	0.54
2:CU:225:PRO:HG2	3:DV:141:CYS:HA	1.89	0.54
4:FS:25:PHE:CE1	4:FT: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	203.37	0.54
4:FE:25:PHE:CE1	4:FF:22:VAL:HB	112.47	0.54
4:FF:25:PHE:CE1	4:FG:22:VAL:HB	2.42	0.54
4:F2:25:PHE:CE1	4:F3:22:VAL:HB	2.42	0.54
3:DJ:121:LEU:HD22	3:DJ:186:TYR:HB2	1.89	0.54
2:C1:36:TYR:CE2	2:C1:130:PRO:HG2	2.42	0.54
2:CE:36:TYR:CE2	2:CE:130:PRO:HG2	2.42	0.54
2:C4:36:TYR:CE2	2:C4:130:PRO:HG2	2.42	0.54
2:CL:36:TYR:CE2	2:CL:130:PRO:HG2	2.42	0.54
3:D2:121:LEU:HD22	3:D2:186:TYR:HB2	1.88	0.54
2:CO:36:TYR:CE2	2:CO:130:PRO:HG2	2.42	0.54
1:AI:176:ALA:HB1	3:DL:174:ALA:O	281.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:176:ALA:HB1	3:DK:174:ALA:O	2.07	0.54
1:AO:176:ALA:HB1	3:DT:174:ALA:O	90.38	0.54
1:AQ:176:ALA:HB1	3:DR:174:ALA:O	2.07	0.54
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:CF:225:PRO:HG2	3:DG:141:CYS:HA	1.89	0.54
2:CV:225:PRO:HG2	3:ED:141:CYS:HA	247.50	0.54
2:C7:60:ARG:O	2:C7:216:ALA:HB1	2.07	0.54
3:D3:107:ASN:HA	3:D3:154:PHE:O	2.08	0.54
3:DY:107:ASN:HA	3:DY:154:PHE:O	2.07	0.54
3:D1:107:ASN:HA	3:D1:154:PHE:O	2.08	0.54
2:CW:63:THR:HG22	3:DJ:188:LEU:HD21	1.87	0.54
2:CR:60:ARG:O	2:CR:216:ALA:HB1	2.07	0.54
2:CL:60:ARG:O	2:CL:216:ALA:HB1	2.07	0.54
1:AK:19:LEU:HD12	3:DM:160:TYR:HB3	90.09	0.54
1:A2:19:LEU:HD12	3:D3:160:TYR:HB3	1.89	0.54
3:EC:101:ARG:HA	3:EC:160:TYR:HE2	1.73	0.54
1:AX:19:LEU:HD12	3:DY:160:TYR:HB3	1.89	0.54
3:EA:101:ARG:HA	3:EA:160:TYR:HE2	1.72	0.54
3:DJ:15:MET:HB3	3:DJ:18:VAL:HG13	1.90	0.54
3:D6:15:MET:HB3	3:D6:18:VAL:HG13	1.90	0.54
4:F6:28:GLN:O	4:F6:29:GLN:HG3	2.07	0.54
1:AE:181:LYS:HA	2:CE:137:GLU:HG3	1.90	0.54
1:AK:181:LYS:HA	2:CM:137:GLU:HG3	101.01	0.54
1:AK:181:LYS:HA	2:CK:137:GLU:HG3	1.89	0.54
1:AL:181:LYS:HA	2:CN:137:GLU:HG3	101.01	0.54
1:AJ:181:LYS:HA	2:CL:137:GLU:HG3	275.74	0.54
1:AL:115:THR:OG1	1:AL:133:LEU:HB2	2.08	0.54
1:AJ:48:LEU:HD21	1:AJ:103:TRP:CZ3	2.43	0.54
1:A0:115:THR:OG1	1:A0:133:LEU:HB2	2.08	0.54
1:AP:181:LYS:HA	2:CP:137:GLU:HG3	1.89	0.54
1:AQ:103:TRP:HB2	1:AQ:198:THR:HG22	1.89	0.54
2:CE:73:GLN:NE2	2:CE:73:GLN:HA	2.17	0.54
2:C4:27:GLN:CG	2:C4:28:GLY:N	2.70	0.54
1:BA:221:PRO:CA	3:DP:40:PHE:HE2	105.60	0.54
1:AU:221:PRO:CA	3:DV:40:PHE:HE2	2.21	0.54
1:AN:165:ARG:HB2	3:DB:33:PRO:O	185.66	0.54
1:AN:165:ARG:HB2	3:DN:33:PRO:O	2.06	0.54
1:AF:165:ARG:HB2	3:DH:33:PRO:O	73.76	0.54
1:AI:165:ARG:HB2	3:DI:33:PRO:O	2.07	0.54
2:C4:218:ILE:O	2:C4:219:ASP:HB2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CK:69:TRP:CH2	2:CK:124:LEU:HG	2.42	0.54
3:DF:56:ILE:HG13	3:DF:74:PHE:HE1	1.72	0.54
3:DU:74:PHE:O	3:DU:184:GLN:HA	2.07	0.54
2:C5:84:PRO:HG3	2:C5:108:TRP:HH2	1.72	0.54
3:DV:74:PHE:O	3:DV:184:GLN:HA	2.07	0.54
1:BH:165:ARG:HB2	3:ED:33:PRO:O	2.06	0.54
3:D2:74:PHE:O	3:D2:184:GLN:HA	2.07	0.54
2:CE:69:TRP:CH2	2:CE:124:LEU:HG	2.42	0.54
1:AH:86:ILE:HD12	1:AH:86:ILE:H	1.73	0.54
2:CN:69:TRP:CH2	2:CN:124:LEU:HG	2.42	0.54
3:DN:74:PHE:O	3:DN:184:GLN:HA	2.07	0.54
1:BD:86:ILE:HD12	1:BD:86:ILE:H	1.73	0.54
1:BG:86:ILE:H	1:BG:86:ILE:HD12	1.73	0.54
1:AO:239:PHE:HD2	3:DS:226:GLN:NE2	158.09	0.54
1:BA:239:PHE:HD2	3:DP:226:GLN:NE2	134.67	0.54
1:AT:239:PHE:HD2	3:DU:226:GLN:NE2	2.05	0.54
1:BI:239:PHE:HD2	3:EE:226:GLN:NE2	2.05	0.54
1:AZ:239:PHE:HD2	3:D0:226:GLN:NE2	2.05	0.54
2:CS:225:PRO:HG2	3:DO:141:CYS:HA	131.95	0.54
2:CW:225:PRO:HG2	3:DX:141:CYS:HA	1.89	0.54
4:F9:22:VAL:HB	4:FD:25:PHE:CE1	194.57	0.54
4:FN:25:PHE:HE1	4:FO:22:VAL:HB	1.72	0.54
4:FO:22:VAL:HB	4:FS:25:PHE:CE1	113.54	0.54
4:F3:25:PHE:CE1	4:FZ:22:VAL:HB	2.42	0.54
4:F9:25:PHE:HE1	4:FA:22:VAL:HB	203.40	0.54
4:FF:22:VAL:HB	4:FJ:25:PHE:HE1	1.72	0.54
4:FJ:25:PHE:CE1	4:FK:22:VAL:HB	236.83	0.54
4:FP:22:VAL:HB	4:FT:25:PHE:HE1	1.72	0.54
4:FT:25:PHE:CE1	4:FU:22:VAL:HB	199.49	0.54
3:D5:121:LEU:HD22	3:D5:186:TYR:HB2	1.89	0.54
4:FP:25:PHE:HE1	4:FQ:22:VAL:HB	1.72	0.54
4:FW:25:PHE:HE1	4:FX:22:VAL:HB	1.72	0.54
4:F5:25:PHE:HE1	4:F6:22:VAL:HB	1.72	0.54
3:D1:121:LEU:HD22	3:D1:186:TYR:HB2	1.89	0.54
4:F0:25:PHE:HE1	4:F1:22:VAL:HB	1.72	0.54
4:F0:25:PHE:CE1	4:F1:22:VAL:HB	2.42	0.54
1:BD:176:ALA:HB1	3:DO:174:ALA:O	225.65	0.54
1:AF:176:ALA:HB1	3:DG:174:ALA:O	2.07	0.54
1:BI:176:ALA:HB1	3:EA:174:ALA:O	2.07	0.54
1:AG:244:ASN:OD1	3:DI:172:ALA:HB1	86.04	0.54
2:C7:225:PRO:HG2	3:D8:141:CYS:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DI:107:ASN:HA	3:DI:154:PHE:O	2.08	0.54
3:DR:107:ASN:HA	3:DR:154:PHE:O	2.07	0.54
3:DA:107:ASN:HA	3:DA:154:PHE:O	2.08	0.54
1:A7:244:ASN:OD1	3:D8:172:ALA:HB1	2.06	0.54
3:DC:107:ASN:HA	3:DC:154:PHE:O	2.07	0.54
2:CH:225:PRO:HG2	3:DI:141:CYS:HA	1.89	0.54
3:DX:107:ASN:HA	3:DX:154:PHE:O	2.07	0.54
2:C1:60:ARG:O	2:C1:216:ALA:HB1	2.07	0.54
2:C0:60:ARG:O	2:C0:216:ALA:HB1	2.07	0.54
2:CA:60:ARG:O	2:CA:216:ALA:HB1	2.07	0.54
2:CP:60:ARG:O	2:CP:216:ALA:HB1	2.07	0.54
3:DG:101:ARG:HA	3:DG:160:TYR:HE2	1.72	0.54
3:DM:101:ARG:HA	3:DM:160:TYR:HE2	1.73	0.54
1:AS:19:LEU:HD12	3:DT:160:TYR:HB3	1.89	0.54
3:EB:101:ARG:HA	3:EB:160:TYR:HE2	1.72	0.54
1:A4:19:LEU:HD12	3:D5:160:TYR:HB3	1.89	0.54
3:D1:101:ARG:HA	3:D1:160:TYR:HE2	1.73	0.54
3:DB:15:MET:HB3	3:DB:18:VAL:HG13	1.90	0.54
1:AD:157:SER:CB	3:DF:24:PRO:HA	120.25	0.54
3:DO:15:MET:HB3	3:DO:18:VAL:HG13	1.90	0.54
3:DS:15:MET:HB3	3:DS:18:VAL:HG13	1.90	0.54
4:FE:28:GLN:O	4:FE:29:GLN:HG3	2.07	0.54
3:D5:15:MET:HB3	3:D5:18:VAL:HG13	1.90	0.54
4:FZ:28:GLN:O	4:FZ:29:GLN:HG3	2.07	0.54
2:CB:202:LEU:HD11	2:CB:209:VAL:HG21	1.88	0.54
2:CL:202:LEU:HD11	2:CL:209:VAL:HG21	1.88	0.54
2:CW:209:VAL:N	2:CW:210:PRO:CD	2.68	0.54
2:CY:202:LEU:HD11	2:CY:209:VAL:HG21	1.88	0.54
1:AU:181:LYS:HA	2:CV:137:GLU:HG3	1.89	0.54
1:AA:181:LYS:HA	2:CC:137:GLU:HG3	101.01	0.54
1:AD:181:LYS:HA	2:CF:137:GLU:HG3	114.08	0.54
1:AB:115:THR:OG1	1:AB:133:LEU:HB2	2.08	0.54
1:AG:48:LEU:HD21	1:AG:103:TRP:CZ3	2.43	0.54
1:AL:103:TRP:HB2	1:AL:198:THR:HG22	1.89	0.54
1:BE:48:LEU:HD21	1:BE:103:TRP:CZ3	2.43	0.54
1:A3:115:THR:OG1	1:A3:133: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:A6:48:LEU:HD21	1:A6:103:TRP:CZ3	2.43	0.54
1:A9:103:TRP:HB2	1:A9:198:THR:HG22	1.90	0.54
1:AF:115:THR:OG1	1:AF:133:LEU:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:115:THR:OG1	1:AK:133:LEU:HB2	2.08	0.54
1:AH:115:THR:OG1	1:AH:133:LEU:HB2	2.08	0.54
1:AH:48:LEU:HD21	1:AH:103:TRP:CZ3	2.43	0.54
2:CX:27:GLN:CG	2:CX:28:GLY:N	2.70	0.54
1:AH:221:PRO:CA	3:DH:40:PHE:HE2	2.21	0.54
1:AB:221:PRO:CA	3:DB:40:PHE:HE2	2.21	0.54
2:CL:27:GLN:CG	2:CL:28:GLY:N	2.70	0.54
2:CV:27:GLN:CG	2:CV:28:GLY:N	2.70	0.54
1:BH:30:VAL:HG13	1:BH:218:MET:HE2	1.89	0.54
1:BE:221:PRO:CA	3:EA:40:PHE:HE2	2.21	0.54
2:C3:27:GLN:CG	2:C3:28:GLY:N	2.70	0.54
1:AS:221:PRO:CA	3:DT:40:PHE:HE2	2.21	0.54
2:CM:84:PRO:HG3	2:CM:108:TRP:HH2	1.72	0.54
2:CG:84:PRO:HG3	2:CG:108:TRP:HH2	1.72	0.54
1:AD:165:ARG:HB2	3:DD:33:PRO:O	2.07	0.54
1:AW:165:ARG:HB2	3:DX:33:PRO:O	2.06	0.54
1:BC:165:ARG:HB2	3:DR:33:PRO:O	138.23	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
3:D8:56:ILE:HG13	3:D8:74:PHE:HE1	1.72	0.54
2:C3:69:TRP:CH2	2:C3:124:LEU:HG	2.42	0.54
1:A8:181:LYS:HA	2:C9:137:GLU:HG3	1.89	0.54
2:CC:69:TRP:CH2	2:CC:124:LEU:HG	2.42	0.54
2:CJ:69:TRP:CH2	2:CJ:124:LEU:HG	2.42	0.54
2:CY:69:TRP:CH2	2:CY:124:LEU:HG	2.42	0.54
1:AT:181:LYS:HA	2:CU:137:GLU:HG3	1.89	0.54
1:AJ:86:ILE:HD12	1:AJ:86:ILE:H	1.72	0.54
1:A4:239:PHE:HD2	3:D5:226:GLN:NE2	2.05	0.54
1:BF:239:PHE:HD2	3:EB:226:GLN:NE2	2.05	0.54
1:AF:239:PHE:HD2	3:DH:226:GLN:NE2	81.06	0.54
1:A5:239:PHE:HD2	3:D6:226:GLN:NE2	2.05	0.54
1:AU:239:PHE:HD2	3:DV:226:GLN:NE2	2.05	0.54
3:DU:99:GLN:HB2	3:DU:217:ARG:HG3	1.87	0.54
2:CU:225:PRO:HG2	3:EC:141:CYS:HA	248.25	0.54
4:FA:25:PHE:HE1	4:FB:22:VAL:HB	1.72	0.54
4:FV:25:PHE:CE1	4:FW:22:VAL:HB	2.42	0.54
4:FE:22:VAL:HB	4:FI:25:PHE:HE1	113.17	0.54
4:FO:22:VAL:HB	4:FS:25:PHE:HE1	113.18	0.54
4:FE:25:PHE:HE1	4:FF:22:VAL:HB	112.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DY:121:LEU:HD22	3:DY:186:TYR:HB2	1.89	0.54
4:FL:25:PHE:HE1	4:FM:22:VAL:HB	1.72	0.54
4:F5:25:PHE:CE1	4:F6:22:VAL:HB	2.42	0.54
1:AA:176:ALA:HB1	3:DB:174:ALA:O	2.07	0.54
1:AC:176:ALA:HB1	3:DD:174:ALA:O	2.07	0.54
1:AE:176:ALA:HB1	3:DH:174:ALA:O	143.21	0.54
1:AU:176:ALA:HB1	3:DW:174:ALA:O	2.07	0.54
1:BE:176:ALA:HB1	3:EB:174:ALA:O	2.07	0.54
1:AD:244:ASN:OD1	3:DF:172:ALA:HB1	136.93	0.54
2:CT:225:PRO:HG2	3:DP:141:CYS:HA	1.89	0.54
3:DM:107:ASN:HA	3:DM:154:PHE:O	2.08	0.54
1:AG:118:ALA:HB2	1:AG:132:GLN:NE2	2.23	0.54
3:D8:107:ASN:HA	3:D8:154:PHE:O	2.08	0.54
3:D6:107:ASN:HA	3:D6:154:PHE:O	2.07	0.54
2:CT:117:SER:OG	2:CT:118:PHE:N	2.41	0.54
2:C9:63:THR:HG22	3:DL:188:LEU:HD21	84.54	0.54
1:BF:19:LEU:HD12	3:EB:160:TYR:HB3	1.89	0.54
3:DJ:101:ARG:HA	3:DJ:160:TYR:HE2	1.73	0.54
3:DQ:101:ARG:HA	3:DQ:160:TYR:HE2	1.73	0.54
1:A3:19:LEU:HD12	3:D4:160:TYR:HB3	1.89	0.54
3:DY:101:ARG:HA	3:DY:160:TYR:HE2	1.73	0.54
1:BC:19:LEU:HD12	3:DR:160:TYR:HB3	128.08	0.54
3:DR:101:ARG:HA	3:DR:160:TYR:HE2	1.72	0.54
3:D2:101:ARG:HA	3:D2:160:TYR:HE2	1.73	0.54
3:D0:101:ARG:HA	3:D0:160:TYR:HE2	1.73	0.54
3:DK:15:MET:HB3	3:DK:18:VAL:HG13	1.90	0.54
3:DN:15:MET:HB3	3:DN:18:VAL:HG13	1.90	0.54
1:AQ:157:SER:CB	3:DQ:24:PRO:HA	2.36	0.54
3:DR:15:MET:HB3	3:DR:18:VAL:HG13	1.90	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
3:D4:15:MET:HB3	3:D4:18:VAL:HG13	1.90	0.54
1:AO:181:LYS:HA	2:CO:137:GLU:HG3	1.89	0.54
1:AN:181:LYS:HA	2:CN:137:GLU:HG3	1.89	0.54
1:A3:181:LYS:HA	2:C4:137:GLU:HG3	1.89	0.54
1:AD:48:LEU:HD21	1:AD:103:TRP:CZ3	2.43	0.54
1:AD:115:THR:OG1	1:AD:133:LEU:HB2	2.08	0.54
1:AC:103:TRP:HB2	1:AC:198:THR:HG22	1.89	0.54
1:A8:115:THR:OG1	1:A8:133:LEU:HB2	2.08	0.54
1:A9:115:THR:OG1	1:A9:133:LEU:HB2	2.08	0.54
1:AI:48:LEU:HD21	1:AI:103:TRP:CZ3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:115:THR:OG1	1:A5:133:LEU:HB2	2.08	0.54
1:BB:115:THR:OG1	1:BB:133:LEU:HB2	2.08	0.54
2:CH:73:GLN:NE2	2:CH:73:GLN:HA	2.17	0.54
2:C4:73:GLN:HA	2:C4:73:GLN:NE2	2.17	0.54
1:AE:221:PRO:CA	3:DE:40:PHE:HE2	2.21	0.54
1:AG:221:PRO:CA	3:DI:40:PHE:HE2	81.18	0.54
1:BD:221:PRO:CA	3:DS:40:PHE:HE2	145.23	0.54
2:CI:27:GLN:CG	2:CI:28:GLY:N	2.70	0.54
2:CY:73:GLN:HA	2:CY:73:GLN:NE2	2.17	0.54
1:BH:221:PRO:CA	3:ED:40:PHE:HE2	2.21	0.54
3:D8:109:ILE:HB	3:D8:205:LEU:HB2	1.88	0.54
2:CK:84:PRO:HG3	2:CK:108:TRP:HH2	1.72	0.54
2:CU:84:PRO:HG3	2:CU:108:TRP:HH2	1.72	0.54
1:A7:165:ARG:HB2	3:D8:33:PRO:O	2.07	0.54
1:AJ:165:ARG:HB2	3:DJ:33:PRO:O	2.07	0.54
1:AV:165:ARG:HB2	3:DW:33:PRO:O	2.06	0.54
2:CR:69:TRP:CH2	2:CR:124:LEU:HG	2.42	0.54
2:C8:69:TRP:CH2	2:C8:124:LEU:HG	2.42	0.54
2:C2:69:TRP:CH2	2:C2:124:LEU:HG	2.42	0.54
3:D1:74:PHE:O	3:D1:184:GLN:HA	2.07	0.54
3:D6:74:PHE:O	3:D6:184:GLN:HA	2.07	0.54
2:CO:69:TRP:CH2	2:CO:124:LEU:HG	2.42	0.54
3:ED:74:PHE:O	3:ED:184:GLN:HA	2.07	0.54
1:AR:181:LYS:HA	2:CR:137:GLU:HG3	1.89	0.54
1:BH:86:ILE:H	1:BH:86:ILE:HD12	1.73	0.54
3:EE:74:PHE:O	3:EE:184:GLN:HA	2.07	0.54
1:BA:86:ILE:H	1:BA:86:ILE:HD12	1.72	0.54
1:AF:86:ILE:HD12	1:AF:86:ILE:H	1.73	0.54
1:AI:239:PHE:HD2	3:DK:226:GLN:NE2	278.85	0.54
1:AM:239:PHE:HD2	3:DM:226:GLN:NE2	2.05	0.54
1:AE:239:PHE:HD2	3:DG:226:GLN:NE2	124.37	0.54
1:AM:239:PHE:HD2	3:DO:226:GLN:NE2	81.05	0.54
1:AR:239:PHE:HD2	3:DR:226:GLN:NE2	2.05	0.54
1:AD:239:PHE:HD2	3:DD:226:GLN:NE2	2.05	0.54
1:AQ:239:PHE:HD2	3:DQ:226:GLN:NE2	2.05	0.54
2:CI:225:PRO:HG2	3:DJ:141:CYS:HA	1.89	0.54
2:CN:225:PRO:HG2	3:DO:141:CYS:HA	1.89	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
3:DW:121:LEU:HD22	3:DW:186:TYR:HB2	1.89	0.54
4:FB:25:PHE:CE1	4:FC:22:VAL:HB	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:36:TYR:CE2	2:CT:130:PRO:HG2	2.42	0.54
2:C6:36:TYR:CE2	2:C6:130:PRO:HG2	2.42	0.54
1:AB:176:ALA:HB1	3:D9:174:ALA:O	225.66	0.54
1:AK:176:ALA:HB1	3:DL:174:ALA:O	2.07	0.54
1:AC:176:ALA:HB1	3:DF:174:ALA:O	140.05	0.54
1:A8:176:ALA:HB1	3:DA:174:ALA:O	232.21	0.54
1:AH:176:ALA:HB1	3:DI:174:ALA:O	2.07	0.54
1:A5:176:ALA:HB1	3:D7:174:ALA:O	2.07	0.54
2:CQ:36:TYR:CE2	2:CQ:130:PRO:HG2	2.42	0.54
1:BA:176:ALA:HB1	3:DQ:174:ALA:O	109.55	0.54
1:A6:244:ASN:OD1	3:D7:172:ALA:HB1	2.06	0.54
3:D9:107:ASN:HA	3:D9:154:PHE:O	2.08	0.54
3:DT:107:ASN:HA	3:DT:154:PHE:O	2.08	0.54
3:DZ:107:ASN:HA	3:DZ:154:PHE:O	2.07	0.54
2:C7:117:SER:OG	2:C7:118:PHE:N	2.41	0.54
2:CK:63:THR:HG22	3:DB:188:LEU:HD21	253.98	0.54
2:CV:115:ASN:ND2	3:DD:190:ALA:C	147.63	0.54
2:C2:115:ASN:ND2	3:DH:190:ALA:C	263.78	0.54
2:C5:117:SER:OG	2:C5:118:PHE:N	2.41	0.54
2:CO:117:SER:OG	2:CO:118:PHE:N	2.41	0.54
2:CN:117:SER:OG	2:CN:118:PHE:N	2.41	0.54
2:CE:117:SER:OG	2:CE:118:PHE:N	2.41	0.54
1:AI:19:LEU:HD12	3:DK:160:TYR:HB3	229.74	0.54
3:DA:101:ARG:HA	3:DA:160:TYR:HE2	1.73	0.54
1:AA:19:LEU:HD12	3:DC:160:TYR:HB3	90.09	0.54
3:D5:101:ARG:HA	3:D5:160:TYR:HE2	1.73	0.54
1:AQ:19:LEU:HD12	3:DQ:160:TYR:HB3	1.89	0.54
1:BE:19:LEU:HD12	3:EA:160:TYR:HB3	1.89	0.54
1:AE:118:ALA:HB2	1:AE:132:GLN:NE2	2.23	0.54
1:AJ:118:ALA:HB2	1:AJ:132:GLN:NE2	2.23	0.54
1:AK:118:ALA:HB2	1:AK:132:GLN:NE2	2.23	0.54
3:DF:15:MET:HB3	3:DF:18:VAL:HG13	1.90	0.54
3:DG:15:MET:HB3	3:DG:18:VAL:HG13	1.90	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:DY:15:MET:HB3	3:DY:18:VAL:HG13	1.90	0.54
3:EB:15:MET:HB3	3:EB:18:VAL:HG13	1.90	0.54
4:FR:28:GLN:O	4:FR:29:GLN:HG3	2.07	0.54
4:FX:28:GLN:O	4:FX:29:GLN:HG3	2.07	0.54
3:DD:42:ASN:HD22	3:DD:44:ILE:HG22	1.65	0.54
3:D8:15:MET:HB3	3:D8:18:VAL:HG13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:209:VAL:N	2:C8:210:PRO:CD	2.68	0.54
1:BG:181:LYS:HA	2:CV:137:GLU:HG3	275.62	0.54
1:AB:181:LYS:HA	2:CD:137:GLU:HG3	101.01	0.54
1:AB:48:LEU:HD21	1:AB:103:TRP:CZ3	2.43	0.54
1:AE:48:LEU:HD21	1:AE:103:TRP:CZ3	2.43	0.54
1:AN:48:LEU:HD21	1:AN:103:TRP:CZ3	2.43	0.54
1:AX:115:THR:OG1	1:AX:133:LEU:HB2	2.08	0.54
1:BA:115:THR:OG1	1:BA:133:LEU:HB2	2.08	0.54
1:AS:103:TRP:HB2	1:AS:198:THR:HG22	1.89	0.54
1:AK:221:PRO:CA	3:DM:40:PHE:HE2	81.18	0.54
1:A8:221:PRO:CA	3:D9:40:PHE:HE2	2.21	0.54
1:AX:221:PRO:CA	3:DY:40:PHE:HE2	2.21	0.54
1:A6:221:PRO:CA	3:D7:40:PHE:HE2	2.21	0.54
2:C8:84:PRO:HG3	2:C8:108:TRP:HH2	1.72	0.54
2:CQ:84:PRO:HG3	2:CQ:108:TRP:HH2	1.72	0.54
1:AC:165:ARG:HB2	3:DE:33:PRO:O	73.76	0.54
1:AQ:181:LYS:HA	2:CQ:137:GLU:HG3	1.90	0.54
1:A1:165:ARG:HB2	3:D2:33:PRO:O	2.07	0.54
2:CA:69:TRP:CH2	2:CA:124:LEU:HG	2.42	0.54
3:EB:56:ILE:HG13	3:EB:74:PHE:HE1	1.72	0.54
3:DV:56:ILE:HG13	3:DV:74:PHE:HE1	1.72	0.54
2:C4:75:HIS:HE2	3:D4:59:LYS:HB3	1.71	0.54
2:CH:84:PRO:HG3	2:CH:108:TRP:HH2	1.72	0.54
2:CT:69:TRP:CH2	2:CT:124:LEU:HG	2.42	0.54
1:AG:86:ILE:HD12	1:AG:86:ILE:H	1.72	0.54
1:A8:86:ILE:H	1:A8:86:ILE:HD12	1.73	0.54
2:CB:69:TRP:CH2	2:CB:124:LEU:HG	2.42	0.54
1:A9:239:PHE:HD2	3:DA:226:GLN:NE2	248.23	0.54
1:AB:239:PHE:HD2	3:DB:226:GLN:NE2	2.05	0.54
1:A2:239:PHE:HD2	3:D3:226:GLN:NE2	2.05	0.54
4:FR:25:PHE:CE1	4:FS:22:VAL:HB	2.42	0.54
4:FD:25:PHE:CE1	4:FE:22:VAL:HB	2.42	0.54
4:FX:25:PHE:HE1	4:FY:22:VAL:HB	1.72	0.54
3:D4:121:LEU:HD22	3:D4:186:TYR:HB2	1.89	0.54
2:C5:36:TYR:CE2	2:C5:130:PRO:HG2	2.42	0.54
2:CD:36:TYR:CE2	2:CD:130:PRO:HG2	2.42	0.54
2:C7:36:TYR:CE2	2:C7:130:PRO:HG2	2.42	0.54
1:AN:176:ALA:HB1	3:DO:174:ALA:O	2.07	0.54
1:AI:176:ALA:HB1	3:DJ:174:ALA:O	2.07	0.54
1:BB:176:ALA:HB1	3:DR:174:ALA:O	144.03	0.54
1:AX:176:ALA:HB1	3:DU:174:ALA:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:176:ALA:HB1	3:D0:174:ALA:O	2.07	0.54
1:AI:244:ASN:OD1	3:DI:172:ALA:HB1	2.06	0.54
3:DB:48:LYS:HA	3:DB:210:ALA:HB3	1.90	0.54
3:EA:107:ASN:HA	3:EA:154:PHE:O	2.08	0.54
3:D2:107:ASN:HA	3:D2:154:PHE:O	2.08	0.54
3:DV:107:ASN:HA	3:DV:154:PHE:O	2.08	0.54
3:DA:48:LYS:HA	3:DA:210:ALA:HB3	1.90	0.54
3:DE:107:ASN:HA	3:DE:154:PHE:O	2.07	0.54
3:DG:107:ASN:HA	3:DG:154:PHE:O	2.08	0.54
3:ED:107:ASN:HA	3:ED:154:PHE:O	2.08	0.54
3:DM:48:LYS:HA	3:DM:210:ALA:HB3	1.90	0.54
2:CJ:60:ARG:O	2:CJ:216:ALA:HB1	2.07	0.54
2:CM:117:SER:OG	2:CM:118:PHE:N	2.41	0.54
2:CR:117:SER:OG	2:CR:118:PHE:N	2.41	0.54
2:CQ:117:SER:OG	2:CQ:118:PHE:N	2.41	0.54
2:CA:117:SER:OG	2:CA:118:PHE:N	2.41	0.54
1:AA:19:LEU:HD12	3:DA:160:TYR:HB3	1.89	0.54
3:D9:101:ARG:HA	3:D9:160:TYR:HE2	1.72	0.54
3:DF:101:ARG:HA	3:DF:160:TYR:HE2	1.73	0.54
1:AH:19:LEU:HD12	3:DH:160:TYR:HB3	1.88	0.54
3:DN:101:ARG:HA	3:DN:160:TYR:HE2	1.73	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:DC:15:MET:HB3	3:DC:18:VAL:HG13	1.90	0.54
3:DD:15:MET:HB3	3:DD:18:VAL:HG13	1.90	0.54
3:DL:15:MET:HB3	3:DL:18:VAL:HG13	1.90	0.54
3:DM:15:MET:HB3	3:DM:18:VAL:HG13	1.90	0.54
1:AU:157:SER:CB	3:DV:24:PRO:HA	2.36	0.54
3:DX:15:MET:HB3	3:DX:18:VAL:HG13	1.90	0.54
3:EC:15:MET:HB3	3:EC:18:VAL:HG13	1.90	0.54
4:FS:28:GLN:O	4:FS:29:GLN:HG3	2.07	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:DZ:15:MET:HB3	3:DZ:18:VAL:HG13	1.90	0.54
2:CR:202:LEU:HD11	2:CR:209:VAL:HG21	1.88	0.54
2:CG:202:LEU:HD11	2:CG:209:VAL:HG21	1.88	0.54
1:AD:181:LYS:HA	2:CD:137:GLU:HG3	1.89	0.54
1:AF:181:LYS:HA	2:CH:137:GLU:HG3	101.01	0.54
1:AP:115:THR:OG1	1:AP:133:LEU:HB2	2.08	0.54
1:AT:48:LEU:HD21	1:AT:103:TRP:CZ3	2.43	0.54
1:AC:115:THR:OG1	1:AC:133:LEU:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:115:THR:OG1	1:AA:133:LEU:HB2	2.08	0.54
1:A1:103:TRP:HB2	1:A1:198:THR:HG22	1.89	0.54
1:AF:103:TRP:HB2	1:AF:198:THR:HG22	1.89	0.54
1:BB:48:LEU:HD21	1:BB:103:TRP:CZ3	2.43	0.54
2:CV:73:GLN:HA	2:CV:73:GLN:NE2	2.17	0.54
1:BC:48:LEU:HD21	1:BC:103:TRP:CZ3	2.43	0.54
2:C5:27:GLN:CG	2:C5:28:GLY:N	2.70	0.54
1:AA:221:PRO:CA	3:DC:40:PHE:HE2	81.18	0.54
1:AO:221:PRO:CA	3:DS:40:PHE:HE2	115.88	0.54
2:CM:27:GLN:CG	2:CM:28:GLY:N	2.70	0.54
1:AY:221:PRO:CA	3:DZ:40:PHE:HE2	2.21	0.54
1:A4:30:VAL:HG13	1:A4:218:MET:HE2	1.89	0.54
1:BB:221:PRO:CA	3:DQ:40:PHE:HE2	114.82	0.54
2:CY:27:GLN:CG	2:CY:28:GLY:N	2.70	0.54
2:C1:218:ILE:O	2:C1:219:ASP:HB2	2.06	0.54
2:CA:84:PRO:HG3	2:CA:108:TRP:HH2	1.72	0.54
1:AN:165:ARG:HD3	2:CN:182:PRO:HG3	1.90	0.54
1:A0:165:ARG:HD3	2:C1:182:PRO:HG3	1.90	0.54
1:AE:165:ARG:HD3	2:CE:182:PRO:HG3	1.90	0.54
3:DR:74:PHE:O	3:DR:184:GLN:HA	2.07	0.54
2:C5:69:TRP:CH2	2:C5:124:LEU:HG	2.42	0.54
1:BE:165:ARG:HB2	3:EA:33:PRO:O	2.07	0.54
2:CH:69:TRP:CH2	2:CH:124:LEU:HG	2.42	0.54
2:CL:69:TRP:CH2	2:CL:124:LEU:HG	2.42	0.54
1:AA:239:PHE:HD2	3:DA:226:GLN:NE2	2.05	0.54
1:AG:239:PHE:HD2	3:DG:226:GLN:NE2	2.05	0.54
1:AY:239:PHE:HD2	3:DZ:226:GLN:NE2	2.05	0.54
1:A6:239:PHE:HD2	3:D7:226:GLN:NE2	2.05	0.54
1:A8:239:PHE:HD2	3:D9:226:GLN:NE2	2.05	0.54
1:A7:239:PHE:HD2	3:D8:226:GLN:NE2	2.05	0.54
2:CI:225:PRO:HG2	3:DE:141:CYS:HA	131.95	0.54
4:FV:25:PHE:HE1	4:FW:22:VAL:HB	1.72	0.54
4:FS:25:PHE:HE1	4:FT:22:VAL:HB	1.72	0.54
4:FX:25:PHE:CE1	4:FY:22:VAL:HB	2.42	0.54
4:F1:25:PHE:HE1	4:F2:22:VAL:HB	1.72	0.54
3:D6:121:LEU:HD22	3:D6:186:TYR:HB2	1.89	0.54
4:F7:25:PHE:CE1	4:F8:22:VAL:HB	2.42	0.54
4:FG:25:PHE:CE1	4:FH:22:VAL:HB	2.42	0.54
1:A9:176:ALA:HB1	3:DB:174:ALA:O	264.12	0.54
1:AG:176:ALA:HB1	3:DE:174:ALA:O	161.91	0.54
1:A7:176:ALA:HB1	3:D4:174:ALA:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:244:ASN:OD1	3:DE:172:ALA:HB1	2.06	0.54
1:AL:118:ALA:HB2	1:AL:132:GLN:NE2	2.23	0.54
1:AX:118:ALA:HB2	1:AX:132:GLN:NE2	2.23	0.54
1:AH:118:ALA:HB2	1:AH:132:GLN:NE2	2.23	0.54
1:AQ:118:ALA:HB2	1:AQ:132:GLN:NE2	2.23	0.54
3:DK:48:LYS:HA	3:DK:210:ALA:HB3	1.90	0.54
3:DP:48:LYS:HA	3:DP:210:ALA:HB3	1.90	0.54
3:DK:107:ASN:HA	3:DK:154:PHE:O	2.08	0.54
1:AS:244:ASN:OD1	3:DT:172:ALA:HB1	2.06	0.54
2:C4:225:PRO:HG2	3:D5:141:CYS:HA	1.89	0.54
3:DD:107:ASN:HA	3:DD:154:PHE:O	2.07	0.54
1:AU:118:ALA:HB2	1:AU:132:GLN:NE2	2.23	0.54
3:DU:48:LYS:HA	3:DU:210:ALA:HB3	1.90	0.54
3:DD:48:LYS:HA	3:DD:210:ALA:HB3	1.90	0.54
3:DQ:107:ASN:HA	3:DQ:154:PHE:O	2.08	0.54
2:CC:117:SER:OG	2:CC:118:PHE:N	2.41	0.54
2:CK:60:ARG:O	2:CK:216:ALA:HB1	2.07	0.54
2:C2:115:ASN:CA	3:DH:119:LYS:HD2	256.10	0.54
2:CP:117:SER:OG	2:CP:118:PHE:N	2.41	0.54
1:BA:19:LEU:HD12	3:DP:160:TYR:HB3	116.03	0.54
1:AO:118:ALA:HB2	1:AO:132:GLN:NE2	2.23	0.54
1:AS:118:ALA:HB2	1:AS:132:GLN:NE2	2.23	0.54
1:AT:118:ALA:HB2	1:AT:132:GLN:NE2	2.23	0.54
3:D9:15:MET:HB3	3:D9:18:VAL:HG13	1.90	0.54
3:DA:15:MET:HB3	3:DA:18:VAL:HG13	1.90	0.54
3:DT:15:MET:HB3	3:DT:18:VAL:HG13	1.90	0.54
4:F0:28:GLN:O	4:F0:29:GLN:HG3	2.07	0.54
1:A6:157:SER:CB	3:D7:24:PRO:HA	2.36	0.54
2:CU:209:VAL:N	2:CU:210:PRO:CD	2.68	0.54
1:AM:181:LYS:HA	2:CM:137:GLU:HG3	1.89	0.54
1:AN:181:LYS:HA	2:CB:137:GLU:HG3	220.19	0.54
1:AG:103:TRP:HB2	1:AG:198:THR:HG22	1.89	0.54
1:AT:103:TRP:HB2	1:AT:198:THR:HG22	1.89	0.54
1:AN:115:THR:OG1	1:AN:133:LEU:HB2	2.08	0.54
1:AZ:115:THR:OG1	1:AZ:133:LEU:HB2	2.08	0.54
1:A1:115:THR:OG1	1:A1:133:LEU:HB2	2.08	0.54
1:A2:115:THR:OG1	1:A2:133:LEU:HB2	2.08	0.54
1:AI:115:THR:OG1	1:AI:133:LEU:HB2	2.08	0.54
1:BA:103:TRP:HB2	1:BA:198:THR:HG22	1.89	0.54
1:AV:48:LEU:HD21	1:AV:103:TRP:CZ3	2.43	0.54
1:AU:48:LEU:HD21	1:AU:103:TRP:CZ3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:221:PRO:CA	3:DK:40:PHE:HE2	247.07	0.54
1:AM:221:PRO:CA	3:DM:40:PHE:HE2	2.21	0.54
1:AM:221:PRO:CA	3:DO:40:PHE:HE2	81.18	0.54
1:AL:221:PRO:CA	3:DL:40:PHE:HE2	2.21	0.54
1:AF:221:PRO:CA	3:DH:40:PHE:HE2	81.18	0.54
1:BF:30:VAL:HG13	1:BF:218:MET:HE2	1.90	0.54
2:C2:27:GLN:CG	2:C2:28:GLY:N	2.70	0.54
1:AZ:221:PRO:CA	3:D0:40:PHE:HE2	2.21	0.54
1:BA:30:VAL:HG13	1:BA:218:MET:HE2	1.90	0.54
1:AQ:221:PRO:CA	3:DQ:40:PHE:HE2	2.21	0.54
1:BI:221:PRO:CA	3:EE:40:PHE:HE2	2.21	0.54
1:AH:165:ARG:HB2	3:DH:33:PRO:O	2.06	0.54
1:A4:165:ARG:HB2	3:D5:33:PRO:O	2.07	0.54
2:CT:75:HIS:HE2	3:DT:59:LYS:HB3	1.71	0.54
1:A1:86:ILE:HD12	1:A1:86:ILE:H	1.72	0.54
1:AZ:181:LYS:HA	2:C0:137:GLU:HG3	1.89	0.54
1:A1:239:PHE:HD2	3:D2:226:GLN:NE2	2.05	0.54
1:AS:239:PHE:HD2	3:DT:226:GLN:NE2	2.05	0.54
2:CD:225:PRO:HG2	3:DE:141:CYS:HA	1.89	0.54
4:F4:25:PHE:HE1	4:F5:22:VAL:HB	1.72	0.54
3:D0:121:LEU:HD22	3:D0:186:TYR:HB2	1.89	0.54
1:AE:176:ALA:HB1	3:DA:174:ALA:O	2.07	0.54
1:AV:176:ALA:HB1	3:DX:174:ALA:O	2.07	0.54
1:AP:176:ALA:HB1	3:DQ:174:ALA:O	2.07	0.54
1:AB:118:ALA:HB2	1:AB:132:GLN:NE2	2.23	0.54
1:AF:118:ALA:HB2	1:AF:132:GLN:NE2	2.23	0.54
1:AP:118:ALA:HB2	1:AP:132:GLN:NE2	2.23	0.54
1:A8:118:ALA:HB2	1:A8:132:GLN:NE2	2.23	0.54
3:DS:107:ASN:HA	3:DS:154:PHE:O	2.08	0.54
3:EC:107:ASN:HA	3:EC:154:PHE:O	2.07	0.54
2:CS:60:ARG:O	2:CS:216:ALA:HB1	2.07	0.54
3:D7:107:ASN:HA	3:D7:154:PHE:O	2.08	0.54
2:C6:225:PRO:HG2	3:D7:141:CYS:HA	1.89	0.54
3:DL:48:LYS:HA	3:DL:210:ALA:HB3	1.90	0.54
3:EC:48:LYS:HA	3:EC:210:ALA:HB3	1.90	0.54
2:CK:117:SER:OG	2:CK:118:PHE:N	2.41	0.54
2:CD:117:SER:OG	2:CD:118:PHE:N	2.41	0.54
2:C9:117:SER:OG	2:C9:118:PHE:N	2.41	0.54
2:C3:117:SER:OG	2:C3:118:PHE:N	2.41	0.54
1:AF:19:LEU:HD12	3:DF:160:TYR:HB3	1.88	0.54
3:DK:101:ARG:HA	3:DK:160:TYR:HE2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:101:ARG:HA	3:DL:160:TYR:HE2	1.73	0.54
3:DU:101:ARG:HA	3:DU:160:TYR:HE2	1.73	0.54
1:AC:118:ALA:HB2	1:AC:132:GLN:NE2	2.23	0.54
1:AN:118:ALA:HB2	1:AN:132:GLN:NE2	2.23	0.54
1:AA:157:SER:CB	3:DC:24:PRO:HA	39.10	0.54
1:AG:157:SER:CB	3:DG:24:PRO:HA	2.36	0.54
3:D2:15:MET:HB3	3:D2:18:VAL:HG13	1.90	0.54
4:F1:28:GLN:O	4:F1:29:GLN:HG3	2.07	0.54
3:D0:15:MET:HB3	3:D0:18:VAL:HG13	1.90	0.54
2:CN:202:LEU:HD11	2:CN:209:VAL:HG21	1.88	0.54
1:AG:115:THR:OG1	1:AG:133:LEU:HB2	2.08	0.54
1:AL:48:LEU:HD21	1:AL:103:TRP:CZ3	2.43	0.54
1:BD:115:THR:OG1	1:BD:133:LEU:HB2	2.08	0.54
1:AJ:103:TRP:HB2	1:AJ:198:THR:HG22	1.89	0.54
1:AO:48:LEU:HD21	1:AO:103:TRP:CZ3	2.43	0.54
1:AZ:48:LEU:HD21	1:AZ:103:TRP:CZ3	2.43	0.54
1:AA:48:LEU:HD21	1:AA:103:TRP:CZ3	2.43	0.54
1:AX:103:TRP:HB2	1:AX:198:THR:HG22	1.89	0.54
1:A0:48:LEU:HD21	1:A0:103:TRP:CZ3	2.43	0.54
1:A9:48:LEU:HD21	1:A9:103:TRP:CZ3	2.43	0.54
1:AM:103:TRP:HB2	1:AM:198:THR:HG22	1.90	0.54
1:AM:115:THR:OG1	1:AM:133:LEU:HB2	2.08	0.54
1:BH:115:THR:OG1	1:BH:133:LEU:HB2	2.08	0.54
1:A7:48:LEU:HD21	1:A7:103:TRP:CZ3	2.43	0.54
1:A4:115:THR:OG1	1:A4:133:LEU:HB2	2.08	0.54
1:AH:103:TRP:HB2	1:AH:198:THR:HG22	1.89	0.54
1:BC:103:TRP:HB2	1:BC:198:THR:HG22	1.90	0.54
2:C9:27:GLN:CG	2:C9:28:GLY:N	2.70	0.54
2:C6:27:GLN:CG	2:C6:28:GLY:N	2.70	0.54
2:CH:27:GLN:CG	2:CH:28:GLY:N	2.70	0.54
2:C7:226:LEU:CD2	3:D8:126:PRO:HG2	2.36	0.54
1:AA:221:PRO:CA	3:DA:40:PHE:HE2	2.21	0.54
1:AJ:221:PRO:CA	3:DL:40:PHE:HE2	242.45	0.54
2:CG:27:GLN:HG3	2:CG:28:GLY:H	1.73	0.54
1:BG:221:PRO:CA	3:EC:40:PHE:HE2	2.21	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
1:AL:219:TYR:OH	3:DL:34:ARG:HD2	2.08	0.54
1:AI:165:ARG:HB2	3:DK:33:PRO:O	239.33	0.54
1:AK:219:TYR:OH	3:DM:34:ARG:HD2	69.19	0.54
1:AY:219:TYR:OH	3:DZ:34:ARG:HD2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:69:TRP:CH2	2:C9:124:LEU:HG	2.42	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:BC:86:ILE:H	1:BC:86:ILE:HD12	1.73	0.54
1:AL:239:PHE:HD2	3:DL:226:GLN:NE2	2.05	0.54
1:AV:239:PHE:HD2	3:DW:226:GLN:NE2	2.05	0.54
2:CD:225:PRO:HG2	3:D9:141:CYS:HA	142.09	0.54
4:FH:25:PHE:HE1	4:FI:22:VAL:HB	1.73	0.54
4:F1:25:PHE:CE1	4:F2:22:VAL:HB	2.42	0.54
4:FF:25:PHE:HE1	4:FG:22:VAL:HB	1.72	0.54
3:EE:121:LEU:HD22	3:EE:186:TYR:HB2	1.89	0.54
1:AN:176:ALA:HB1	3:DC:174:ALA:O	217.28	0.54
1:AM:176:ALA:HB1	3:DP:174:ALA:O	140.05	0.54
1:A0:176:ALA:HB1	3:D2:174:ALA:O	2.07	0.54
1:BH:176:ALA:HB1	3:EE:174:ALA:O	2.07	0.54
3:DO:48:LYS:HA	3:DO:210:ALA:HB3	1.90	0.54
1:BG:118:ALA:HB2	1:BG:132:GLN:NE2	2.23	0.54
3:DS:48:LYS:HA	3:DS:210:ALA:HB3	1.90	0.54
2:CK:225:PRO:HG2	3:DL:141:CYS:HA	1.89	0.54
3:EB:107:ASN:HA	3:EB:154:PHE:O	2.07	0.54
2:C8:60:ARG:O	2:C8:216:ALA:HB1	2.07	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:C1:117:SER:OG	2:C1:118:PHE:N	2.41	0.54
2:CF:117:SER:OG	2:CF:118:PHE:N	2.41	0.54
1:AW:19:LEU:HD12	3:DX:160:TYR:HB3	1.89	0.54
1:AR:19:LEU:HD12	3:DR:160:TYR:HB3	1.89	0.54
1:A9:118:ALA:HB2	1:A9:132:GLN:NE2	2.23	0.54
1:AD:118:ALA:HB2	1:AD:132:GLN:NE2	2.23	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
1:AC:181:LYS:HA	2:CC:137:GLU:HG3	1.89	0.54
1:AE:181:LYS:HA	2:CG:137:GLU:HG3	141.98	0.54
1:AM:181:LYS:HA	2:CO:137:GLU:HG3	101.01	0.54
1:AE:115:THR:OG1	1:AE:133:LEU:HB2	2.08	0.54
1:AV:115:THR:OG1	1:AV:133:LEU:HB2	2.08	0.54
1:AS:115:THR:OG1	1:AS:133:LEU:HB2	2.08	0.54
1:BC:115:THR:OG1	1:BC:133:LEU:HB2	2.08	0.54
3:DT:53:PHE:CE2	3:DT:205:LEU:HD13	2.41	0.54
1:AI:221:PRO:CA	3:DI:40:PHE:HE2	2.21	0.54
2:CT:27:GLN:HG3	2:CT:28:GLY:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:221:PRO:CA	3:DN:40:PHE:HE2	2.21	0.54
1:AJ:221:PRO:CA	3:DJ:40:PHE:HE2	2.21	0.54
2:CA:27:GLN:HG3	2:CA:28:GLY:H	1.73	0.54
2:CZ:27:GLN:CG	2:CZ:28:GLY:N	2.70	0.54
1:AV:181:LYS:HA	2:CW:137:GLU:HG3	1.89	0.54
2:CZ:218:ILE:O	2:CZ:219:ASP:HB2	2.06	0.54
1:AJ:165:ARG:HD3	2:CL:182:PRO:HG3	228.37	0.54
1:AF:219:TYR:OH	3:DF:34:ARG:HD2	2.08	0.54
1:AH:219:TYR:OH	3:DJ:34:ARG:HD2	69.19	0.54
1:A1:165:ARG:HD3	2:C2:182:PRO:HG3	1.90	0.54
3:DU:56:ILE:HG13	3:DU:74:PHE:HE1	1.72	0.54
1:A3:219:TYR:OH	3:D4:34:ARG:HD2	2.08	0.54
1:A1:181:LYS:HA	2:C2:137:GLU:HG3	1.89	0.54
3:DZ:74:PHE:O	3:DZ:184:GLN:HA	2.07	0.54
1:A6:165:ARG:HD3	2:C7:182:PRO:HG3	1.90	0.54
2:C7:69:TRP:CH2	2:C7:124:LEU:HG	2.42	0.54
1:A5:219:TYR:OH	3:D6:34:ARG:HD2	2.08	0.54
3:DX:74:PHE:O	3:DX:184:GLN:HA	2.07	0.54
1:BF:165:ARG:HD3	2:CU:182:PRO:HG3	226.70	0.54
1:AX:165:ARG:HD3	2:CY:182:PRO:HG3	1.90	0.54
1:AR:86:ILE:H	1:AR:86:ILE:HD12	1.73	0.54
1:AC:239:PHE:HD2	3:DC:226:GLN:NE2	2.05	0.54
1:A0:104:VAL:HG22	1:A0:197:LEU:HD21	1.90	0.54
1:AN:104:VAL:HG22	1:AN:197:LEU:HD21	1.90	0.54
1:AJ:104:VAL:HG22	1:AJ:197:LEU:HD21	1.90	0.54
3:D9:99:GLN:HB2	3:D9:217:ARG:HG3	1.87	0.54
1:A9:104:VAL:HG22	1:A9:197:LEU:HD21	1.90	0.54
4:FA:22:VAL:HB	4:FE:25:PHE:HE1	1.72	0.54
4:FQ:25:PHE:HE1	4:FR:22:VAL:HB	1.73	0.54
1:BC:176:ALA:HB1	3:DS:174:ALA:O	165.26	0.54
1:BG:176:ALA:HB1	3:ED:174:ALA:O	2.07	0.54
2:C9:225:PRO:HG2	3:DA:141:CYS:HA	221.33	0.54
2:CO:225:PRO:HG2	3:DK:141:CYS:HA	1.89	0.54
3:DF:48:LYS:HA	3:DF:210:ALA:HB3	1.90	0.54
3:DJ:107:ASN:HA	3:DJ:154:PHE:O	2.07	0.54
3:DH:48:LYS:HA	3:DH:210:ALA:HB3	1.90	0.54
2:CY:60:ARG:O	2:CY:216:ALA:HB1	2.07	0.54
3:D7:48:LYS:HA	3:D7:210:ALA:HB3	1.90	0.54
3:DO:107:ASN:HA	3:DO:154:PHE:O	2.07	0.54
1:BB:118:ALA:HB2	1:BB:132:GLN:NE2	2.23	0.54
2:C2:117:SER:OG	2:C2:118:PHE:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:117:SER:OG	2:CL:118:PHE:N	2.41	0.54
2:C0:117:SER:OG	2:C0:118:PHE:N	2.41	0.54
2:CZ:117:SER:OG	2:CZ:118:PHE:N	2.41	0.54
3:DD:101:ARG:HA	3:DD:160:TYR:HE2	1.73	0.54
1:AV:118:ALA:HB2	1:AV:132:GLN:NE2	2.23	0.54
1:AI:157:SER:CB	3:DI:24:PRO:HA	2.35	0.54
1:AR:157:SER:CB	3:DR:24:PRO:HA	2.36	0.54
1:AI:181:LYS:HA	2:CI:137:GLU:HG3	1.89	0.54
1:AA:181:LYS:HA	2:CA:137:GLU:HG3	1.89	0.54
1:AB:103:TRP:HB2	1:AB:198:THR:HG22	1.89	0.54
1:AE:103:TRP:HB2	1:AE:198:THR:HG22	1.89	0.54
1:BG:48:LEU:HD21	1:BG:103:TRP:CZ3	2.43	0.54
1:BG:115:THR:OG1	1:BG:133:LEU:HB2	2.08	0.54
1:AZ:103:TRP:HB2	1:AZ:198:THR:HG22	1.89	0.54
1:BI:103:TRP:HB2	1:BI:198:THR:HG22	1.89	0.54
1:A2:103:TRP:HB2	1:A2:198:THR:HG22	1.90	0.54
1:A8:48:LEU:HD21	1:A8:103:TRP:CZ3	2.43	0.54
1:A7:115:THR:OG1	1:A7:133:LEU:HB2	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
2:C3:226:LEU:CD2	3:DZ:126:PRO:HG2	2.36	0.54
2:CC:226:LEU:CD2	3:DD:126:PRO:HG2	2.36	0.54
2:C4:27:GLN:HG3	2:C4:28:GLY:H	1.73	0.54
1:AO:221:PRO:CA	3:DO:40:PHE:HE2	2.21	0.54
1:AE:221:PRO:CA	3:DG:40:PHE:HE2	112.29	0.54
1:AB:221:PRO:CA	3:DD:40:PHE:HE2	81.18	0.54
1:AH:221:PRO:CA	3:DJ:40:PHE:HE2	81.18	0.54
1:A3:221:PRO:CA	3:D4:40:PHE:HE2	2.21	0.54
2:CJ:84:PRO:HG3	2:CJ:108:TRP:HH2	1.72	0.54
1:A7:165:ARG:HD3	2:C8:182:PRO:HG3	1.90	0.54
1:AG:165:ARG:HD3	2:CG:182:PRO:HG3	1.90	0.54
1:AR:219:TYR:OH	3:DR:34:ARG:HD2	2.08	0.54
1:A8:219:TYR:OH	3:D9:34:ARG:HD2	2.08	0.54
1:A2:165:ARG:HD3	2:C3:182:PRO:HG3	1.90	0.54
1:AV:219:TYR:OH	3:DW:34:ARG:HD2	2.08	0.54
3:D8:74:PHE:O	3:D8:184:GLN:HA	2.07	0.54
2:C1:69:TRP:CH2	2:C1:124:LEU:HG	2.42	0.54
1:AS:219:TYR:OH	3:DT:34:ARG:HD2	2.08	0.54
2:C6:69:TRP:CH2	2:C6:124:LEU:HG	2.42	0.54
1:AO:86:ILE:HD12	1:AO:86:ILE:H	1.72	0.54
3:DY:74:PHE:O	3:DY:184:GLN:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:219:TYR:OH	3:D0:34:ARG:HD2	2.08	0.54
1:BB:165:ARG:HD3	2:CQ:182:PRO:HG3	119.32	0.54
1:AN:86:ILE:H	1:AN:86:ILE:HD12	1.73	0.54
2:CS:69:TRP:CH2	2:CS:124:LEU:HG	2.42	0.54
1:AT:165:ARG:HD3	2:CU:182:PRO:HG3	1.90	0.54
1:A3:86:ILE:HD12	1:A3:86:ILE:H	1.72	0.54
1:AK:104:VAL:HG22	1:AK:197:LEU:HD21	1.90	0.54
1:AG:104:VAL:HG22	1:AG:197:LEU:HD21	1.90	0.54
4:FO:25:PHE:HE1	4:FP:22:VAL:HB	112.93	0.54
4:F4:22:VAL:HB	4:F8:25:PHE:CE1	2.42	0.54
2:CE:225:PRO:HG2	3:DA:141:CYS:HA	1.89	0.54
1:AR:55:HIS:O	1:AR:194:SER:CB	2.56	0.54
3:DG:48:LYS:HA	3:DG:210:ALA:HB3	1.90	0.54
3:DB:107:ASN:HA	3:DB:154:PHE:O	2.08	0.54
3:DN:107:ASN:HA	3:DN:154:PHE:O	2.07	0.54
1:BG:55:HIS:O	1:BG:194:SER:CB	2.57	0.54
1:AD:19:LEU:HD12	3:DD:160:TYR:HB3	1.89	0.53
3:DI:101:ARG:HA	3:DI:160:TYR:HE2	1.73	0.53
3:D7:101:ARG:HA	3:D7:160:TYR:HE2	1.73	0.53
1:AA:118:ALA:HB2	1:AA:132:GLN:NE2	2.23	0.53
1:AD:157:SER:CB	3:DD:24:PRO:HA	2.36	0.53
1:AE:157:SER:CB	3:DG:24:PRO:HA	128.04	0.53
1:BF:157:SER:CB	3:EB:24:PRO:HA	2.36	0.53
4:F2:28:GLN:O	4:F2:29:GLN:HG3	2.07	0.53
3:D7:15:MET:HB3	3:D7:18:VAL:HG13	1.90	0.53
1:A7:181:LYS:HA	2:C8:137:GLU:HG3	1.89	0.53
1:BD:48:LEU:HD21	1:BD:103:TRP:CZ3	2.43	0.53
1:AN:103:TRP:HB2	1:AN:198:THR:HG22	1.89	0.53
1:AM:48:LEU:HD21	1:AM:103:TRP:CZ3	2.43	0.53
1:AI:103:TRP:HB2	1:AI:198:THR:HG22	1.89	0.53
1:A5:103:TRP:HB2	1:A5:198:THR:HG22	1.89	0.53
2:C6:27:GLN:HG3	2:C6:28:GLY:H	1.74	0.53
2:CP:27:GLN:HG3	2:CP:28:GLY:H	1.73	0.53
1:AC:221:PRO:CA	3:DE:40:PHE:HE2	81.18	0.53
1:AN:221:PRO:CA	3:DB:40:PHE:HE2	186.99	0.53
2:CM:27:GLN:HG3	2:CM:28:GLY:H	1.73	0.53
2:CL:27:GLN:HG3	2:CL:28:GLY:H	1.73	0.53
1:BF:221:PRO:CA	3:EB:40:PHE:HE2	2.21	0.53
2:CR:27:GLN:HG3	2:CR:28:GLY:H	1.73	0.53
1:AP:221:PRO:CA	3:DP:40:PHE:HE2	2.21	0.53
2:CU:27:GLN:HG3	2:CU:28:GLY:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:27:GLN:HG3	2:CY:28:GLY:H	1.73	0.53
2:C1:84:PRO:HG3	2:C1:108:TRP:HH2	1.72	0.53
2:CR:84:PRO:HG3	2:CR:108:TRP:HH2	1.72	0.53
1:BE:181:LYS:HA	2:CT:137:GLU:HG3	220.46	0.53
1:AJ:219:TYR:OH	3:DJ:34:ARG:HD2	2.08	0.53
1:AL:219:TYR:OH	3:DN:34:ARG:HD2	69.19	0.53
1:AW:219:TYR:OH	3:DX:34:ARG:HD2	2.08	0.53
1:A3:165:ARG:HD3	2:C4:182:PRO:HG3	1.90	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:BH:219:TYR:OH	3:ED:34:ARG:HD2	2.08	0.53
2:C3:84:PRO:HG3	2:C3:108:TRP:HH2	1.72	0.53
2:C0:69:TRP:CH2	2:C0:124:LEU:HG	2.42	0.53
1:A6:104:VAL:HG22	1:A6:197:LEU:HD21	1.90	0.53
1:AL:104:VAL:HG22	1:AL:197:LEU:HD21	1.90	0.53
1:A4:104:VAL:HG22	1:A4:197:LEU:HD21	1.90	0.53
1:A0:239:PHE:HD2	3:D1:226:GLN:NE2	2.05	0.53
2:CW:225:PRO:HG2	3:EE:141:CYS:HA	199.92	0.53
4:FI:25:PHE:HE1	4:FJ:22:VAL:HB	1.72	0.53
4:FJ:25:PHE:HE1	4:FK:22:VAL:HB	236.38	0.53
4:FP:22:VAL:HB	4:FT:25:PHE:CE1	2.42	0.53
4:FT:25:PHE:HE1	4:FU:22:VAL:HB	198.85	0.53
4:FM:25:PHE:CE1	4:FN:22:VAL:HB	2.42	0.53
4:FC:25:PHE:HE1	4:FD:22:VAL:HB	1.72	0.53
4:FU:25:PHE:HE1	4:FV:22:VAL:HB	1.72	0.53
1:AB:176:ALA:HB1	3:DC:174:ALA:O	2.07	0.53
1:AD:176:ALA:HB1	3:DG:174:ALA:O	112.65	0.53
1:A8:55:HIS:O	1:A8:194:SER:CB	2.56	0.53
3:DT:48:LYS:HA	3:DT:210:ALA:HB3	1.90	0.53
1:AI:118:ALA:HB2	1:AI:132:GLN:NE2	2.23	0.53
3:D4:107:ASN:HA	3:D4:154:PHE:O	2.08	0.53
3:DY:48:LYS:HA	3:DY:210:ALA:HB3	1.90	0.53
1:AZ:118:ALA:HB2	1:AZ:132:GLN:NE2	2.23	0.53
1:AL:55:HIS:O	1:AL:194:SER:CB	2.56	0.53
3:DI:48:LYS:HA	3:DI:210:ALA:HB3	1.90	0.53
3:DJ:48:LYS:HA	3:DJ:210:ALA:HB3	1.90	0.53
1:A6:55:HIS:O	1:A6:194:SER:CB	2.56	0.53
1:BC:118:ALA:HB2	1:BC:132:GLN:NE2	2.23	0.53
1:AW:118:ALA:HB2	1:AW:132:GLN:NE2	2.23	0.53
1:A5:118:ALA:HB2	1:A5:132:GLN:NE2	2.23	0.53
2:CV:117:SER:OG	2:CV:118:PHE:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:60:ARG:O	2:C6:216:ALA:HB1	2.07	0.53
2:CB:117:SER:OG	2:CB:118:PHE:N	2.41	0.53
1:AP:19:LEU:HD12	3:DP:160:TYR:HB3	1.89	0.53
3:DP:101:ARG:HA	3:DP:160:TYR:HE2	1.73	0.53
3:DS:101:ARG:HA	3:DS:160:TYR:HE2	1.73	0.53
3:ED:101:ARG:HA	3:ED:160:TYR:HE2	1.72	0.53
1:AG:99:GLU:OE2	1:AG:101:PHE:HE1	1.92	0.53
1:AM:157:SER:CB	3:DM:24:PRO:HA	2.36	0.53
3:EA:15:MET:HB3	3:EA:18:VAL:HG13	1.90	0.53
4:F9:28:GLN:O	4:F9:29:GLN:HG3	2.07	0.53
1:AI:181:LYS:HA	2:CK:137:GLU:HG3	291.31	0.53
1:A6:181:LYS:HA	2:C7:137:GLU:HG3	1.89	0.53
1:AH:181:LYS:HA	2:CH:137:GLU:HG3	1.89	0.53
1:AL:181:LYS:HA	2:CL:137:GLU:HG3	1.89	0.53
1:A4:48:LEU:HD21	1:A4:103:TRP:CZ3	2.43	0.53
2:CD:27:GLN:HG3	2:CD:28:GLY:H	1.74	0.53
2:CH:27:GLN:HG3	2:CH:28:GLY:H	1.74	0.53
1:AK:221:PRO:CA	3:DK:40:PHE:HE2	2.21	0.53
1:AC:221:PRO:CA	3:DC:40:PHE:HE2	2.21	0.53
1:AD:221:PRO:CA	3:DF:40:PHE:HE2	106.00	0.53
2:C0:27:GLN:CG	2:C0:28:GLY:N	2.70	0.53
1:A1:30:VAL:HG13	1:A1:218:MET:HE2	1.90	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:BD:219:TYR:OH	3:DS:34:ARG:HD2	139.15	0.53
1:AI:165:ARG:HD3	2:CK:182:PRO:HG3	241.95	0.53
1:AA:219:TYR:OH	3:DA:34:ARG:HD2	2.08	0.53
1:AC:219:TYR:OH	3:DC:34:ARG:HD2	2.08	0.53
1:BA:219:TYR:OH	3:DP:34:ARG:HD2	99.62	0.53
3:EC:56:ILE:HG13	3:EC:74:PHE:HE1	1.72	0.53
1:BG:165:ARG:HD3	2:CV:182:PRO:HG3	226.86	0.53
1:AU:165:ARG:HB2	3:DV:33:PRO:O	2.06	0.53
3:DZ:56:ILE:HG13	3:DZ:74:PHE:HE1	1.72	0.53
1:A2:219:TYR:OH	3:D3:34:ARG:HD2	2.08	0.53
3:D6:56:ILE:HG13	3:D6:74:PHE:HE1	1.72	0.53
1:AZ:165:ARG:HD3	2:C0:182:PRO:HG3	1.90	0.53
1:AC:86:ILE:H	1:AC:86:ILE:HD12	1.73	0.53
2:CN:69:TRP:HD1	2:CN:70:PRO:N	2.07	0.53
1:AX:219:TYR:OH	3:DY:34:ARG:HD2	2.08	0.53
1:AV:86:ILE:H	1:AV:86:ILE:HD12	1.72	0.53
3:DA:90:VAL:HG11	3:DA:208:VAL:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D7:90:VAL:HG11	3:D7:208:VAL:HG12	1.91	0.53
1:BF:104:VAL:HG22	1:BF:197:LEU:HD21	1.90	0.53
1:A3:239:PHE:HD2	3:D4:226:GLN:NE2	2.05	0.53
1:AC:104:VAL:HG22	1:AC:197:LEU:HD21	1.90	0.53
1:AO:104:VAL:HG22	1:AO:197:LEU:HD21	1.90	0.53
1:AY:104:VAL:HG22	1:AY:197:LEU:HD21	1.90	0.53
1:BA:104:VAL:HG22	1:BA:197:LEU:HD21	1.90	0.53
4:FN:25:PHE:CE1	4:FO:22:VAL:HB	2.42	0.53
4:FT:22:VAL:HB	4:FX:25:PHE:HE1	200.45	0.53
3:DZ:121:LEU:HD22	3:DZ:186:TYR:HB2	1.89	0.53
1:BF:176:ALA:HB1	3:EC:174:ALA:O	2.07	0.53
3:DE:48:LYS:HA	3:DE:210:ALA:HB3	1.90	0.53
1:BI:55:HIS:O	1:BI:194:SER:CB	2.56	0.53
2:C3:225:PRO:HG2	3:DZ:141:CYS:HA	1.89	0.53
1:A7:118:ALA:HB2	1:A7:132:GLN:NE2	2.23	0.53
1:AS:80:SER:HB3	1:AS:216:ALA:HA	1.88	0.53
1:A1:118:ALA:HB2	1:A1:132:GLN:NE2	2.23	0.53
3:DF:107:ASN:HA	3:DF:154:PHE:O	2.08	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	2.56	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:EB:48:LYS:HA	3:EB:210:ALA:HB3	1.90	0.53
3:DV:48:LYS:HA	3:DV:210:ALA:HB3	1.90	0.53
2:C5:60:ARG:O	2:C5:216:ALA:HB1	2.07	0.53
1:AM:19:LEU:HD12	3:DM:160:TYR:HB3	1.89	0.53
1:AI:99:GLU:OE2	1:AI:101:PHE:HE1	1.92	0.53
1:AN:99:GLU:OE2	1:AN:101:PHE:HE1	1.92	0.53
1:BB:212:ARG:HG2	1:BB:214:PRO:HD3	1.91	0.53
1:BH:118:ALA:HB2	1:BH:132:GLN:NE2	2.23	0.53
1:BI:118:ALA:HB2	1:BI:132:GLN:NE2	2.23	0.53
3:DI:15:MET:HB3	3:DI:18:VAL:HG13	1.90	0.53
4:F7:28:GLN:O	4:F7:29:GLN:HG3	2.07	0.53
2:CJ:209:VAL:N	2:CJ:210:PRO:CD	2.68	0.53
1:AH:181:LYS:HA	2:CJ:137:GLU:HG3	101.01	0.53
1:AT:115:THR:OG1	1:AT:133:LEU:HB2	2.08	0.53
1:BF:115:THR:OG1	1:BF:133:LEU:HB2	2.08	0.53
1:AC:48:LEU:HD21	1:AC:103:TRP:CZ3	2.43	0.53
1:AJ:115:THR:OG1	1:AJ:133:LEU:HB2	2.08	0.53
1:BI:115:THR:OG1	1:BI:133:LEU:HB2	2.08	0.53
1:AQ:115:THR:OG1	1:AQ:133:LEU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:48:LEU:HD21	1:AK:103:TRP:CZ3	2.43	0.53
2:CJ:27:GLN:HG3	2:CJ:28:GLY:H	1.73	0.53
1:A5:221:PRO:CA	3:D6:40:PHE:HE2	2.21	0.53
2:CF:27:GLN:HG3	2:CF:28:GLY:H	1.74	0.53
2:CS:27:GLN:HG3	2:CS:28:GLY:H	1.74	0.53
2:C7:27:GLN:HG3	2:C7:28:GLY:H	1.73	0.53
2:C3:27:GLN:HG3	2:C3:28:GLY:H	1.74	0.53
2:CX:84:PRO:HG3	2:CX:108:TRP:HH2	1.72	0.53
1:AF:219:TYR:OH	3:DH:34:ARG:HD2	69.19	0.53
1:AK:165:ARG:HD3	2:CM:182:PRO:HG3	81.68	0.53
1:AE:219:TYR:OH	3:DG:34:ARG:HD2	116.10	0.53
1:A1:219:TYR:OH	3:D2:34:ARG:HD2	2.08	0.53
1:AS:165:ARG:HD3	2:CT:182:PRO:HG3	1.90	0.53
2:CJ:69:TRP:CZ3	2:CJ:124:LEU:CG	2.92	0.53
1:AQ:219:TYR:OH	3:DQ:34:ARG:HD2	2.08	0.53
1:AL:86:ILE:HD12	1:AL:86:ILE:H	1.72	0.53
2:CD:69:TRP:HD1	2:CD:70:PRO:N	2.07	0.53
3:DS:56:ILE:HG13	3:DS:74:PHE:HE1	1.72	0.53
2:CL:69:TRP:HD1	2:CL:70:PRO:N	2.07	0.53
3:DH:90:VAL:HG11	3:DH:208:VAL:HG12	1.91	0.53
3:DR:90:VAL:HG11	3:DR:208:VAL:HG12	1.91	0.53
3:D0:90:VAL:HG11	3:D0:208:VAL:HG12	1.91	0.53
1:AL:239:PHE:HD2	3:DN:226:GLN:NE2	81.05	0.53
1:BG:239:PHE:HD2	3:EC:226:GLN:NE2	2.05	0.53
1:AD:176:ALA:HB1	3:DE:174:ALA:O	2.07	0.53
1:AR:176:ALA:HB1	3:DS:174:ALA:O	2.07	0.53
3:DN:48:LYS:HA	3:DN:210:ALA:HB3	1.90	0.53
1:AT:55:HIS:O	1:AT:194:SER:CB	2.56	0.53
3:DX:48:LYS:HA	3:DX:210:ALA:HB3	1.90	0.53
3:DR:48:LYS:HA	3:DR:210:ALA:HB3	1.90	0.53
1:AO:55:HIS:O	1:AO:194:SER:CB	2.56	0.53
3:D0:48:LYS:HA	3:D0:210:ALA:HB3	1.90	0.53
2:CC:115:ASN:C	3:DN:119:LYS:HZ3	160.79	0.53
2:CW:117:SER:OG	2:CW:118:PHE:N	2.41	0.53
2:CJ:115:ASN:C	3:DM:119:LYS:HZ2	232.28	0.53
2:CJ:117:SER:OG	2:CJ:118:PHE:N	2.41	0.53
2:CU:117:SER:OG	2:CU:118:PHE:N	2.41	0.53
3:DE:101:ARG:HA	3:DE:160:TYR:HE2	1.73	0.53
3:DT:101:ARG:HA	3:DT:160:TYR:HE2	1.73	0.53
3:D8:101:ARG:HA	3:D8:160:TYR:HE2	1.72	0.53
1:AA:212:ARG:HG2	1:AA:214:PRO:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:99:GLU:OE2	1:AC:101:PHE:HE1	1.92	0.53
1:AM:118:ALA:HB2	1:AM:132:GLN:NE2	2.23	0.53
1:AF:157:SER:CB	3:DH:24:PRO:HA	39.10	0.53
1:AY:99:GLU:OE2	1:AY:101:PHE:HE1	1.92	0.53
1:BH:186:TRP:O	1:BH:187:LEU:HB3	2.09	0.53
1:AO:186:TRP:O	1:AO:187:LEU:HB3	2.09	0.53
1:BB:186:TRP:O	1:BB:187:LEU:HB3	2.09	0.53
1:AJ:181:LYS:HA	2:CJ:137:GLU:HG3	1.89	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: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:A6:115:THR:OG1	1:A6:133:LEU:HB2	2.08	0.53
1:AA:103:TRP:HB2	1:AA:198:THR:HG22	1.89	0.53
1:AX:48:LEU:HD21	1:AX:103:TRP:CZ3	2.43	0.53
1:BA:48:LEU:HD21	1:BA:103:TRP:CZ3	2.43	0.53
2:CD:226:LEU:CD2	3:DE:126:PRO:HG2	2.36	0.53
2:CN:226:LEU:CD2	3:DJ:126:PRO:HG2	241.37	0.53
2:CK:226:LEU:CD2	3:DL:126:PRO:HG2	2.36	0.53
2:CG:226:LEU:CD2	3:DH:126:PRO:HG2	2.36	0.53
2:CC:27:GLN:HG3	2:CC:28:GLY:H	1.74	0.53
1:A9:221:PRO:CA	3:DA:40:PHE:HE2	228.08	0.53
1:AG:221:PRO:CA	3:DG:40:PHE:HE2	2.21	0.53
2:CW:27:GLN:HG3	2:CW:28:GLY:H	1.74	0.53
1:AL:221:PRO:CA	3:DN:40:PHE:HE2	81.18	0.53
1:BC:221:PRO:CA	3:DR:40:PHE:HE2	141.79	0.53
2:CE:27:GLN:HG3	2:CE:28:GLY:H	1.73	0.53
1:A7:221:PRO:CA	3:D8:40:PHE:HE2	2.21	0.53
1:AW:221:PRO:CA	3:DX:40:PHE:HE2	2.21	0.53
1:AV:221:PRO:CA	3:DW:40:PHE:HE2	2.21	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:AK:219:TYR:OH	3:DK:34:ARG:HD2	2.08	0.53
2:CK:69:TRP:HD1	2:CK:70:PRO:N	2.07	0.53
1:A0:181:LYS:HA	2:C1:137:GLU:HG3	1.89	0.53
1:A4:219:TYR:OH	3:D5:34:ARG:HD2	2.08	0.53
2:CV:69:TRP:HD1	2:CV:70:PRO:N	2.07	0.53
3:DJ:56:ILE:HG13	3:DJ:74:PHE:HE1	1.72	0.53
1:BC:181:LYS:HA	2:CR:137:GLU:HG3	167.23	0.53
1:AA:86:ILE:H	1:AA:86:ILE:HD12	1.73	0.53
2:CX:69:TRP:CZ3	2:CX:124:LEU:CG	2.92	0.53

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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	0.53
3:DX:90:VAL:HG11	3:DX:208:VAL:HG12	1.91	0.53
3:DJ:90:VAL:HG11	3:DJ:208:VAL:HG12	1.91	0.53
1:AB:104:VAL:HG22	1:AB:197:LEU:HD21	1.90	0.53
4:FU:22:VAL:HB	4:FY:25:PHE:HE1	1.72	0.53
3:D7:121:LEU:HD22	3:D7:186:TYR:HB2	1.89	0.53
4:F7:25:PHE:HE1	4:F8:22:VAL:HB	1.72	0.53
1:BF:118:ALA:HB2	1:BF:132:GLN:NE2	2.23	0.53
1:AA:55:HIS:O	1:AA:194:SER:CB	2.56	0.53
1:A0:55:HIS:O	1:A0:194:SER:CB	2.57	0.53
3:D0:107:ASN:HA	3:D0:154:PHE:O	2.08	0.53
1:BB:55:HIS:O	1:BB:194:SER:CB	2.56	0.53
3:DQ:48:LYS:HA	3:DQ:210:ALA:HB3	1.90	0.53
3:DP:107:ASN:HA	3:DP:154:PHE:O	2.08	0.53
1:A3:118:ALA:HB2	1:A3:132:GLN:NE2	2.23	0.53
3:DC:48:LYS:HA	3:DC:210:ALA:HB3	1.90	0.53
2:C0:225:PRO:HG2	3:D1:141:CYS:HA	1.89	0.53
3:DI:145:VAL:HG22	3:DI:188:LEU:HD12	1.91	0.53
3:D4:145:VAL:HG22	3:D4:188:LEU:HD12	1.91	0.53
2:CX:117:SER:OG	2:CX:118:PHE:N	2.41	0.53
3:D2:145:VAL:HG22	3:D2:188:LEU:HD12	1.91	0.53
2:CY:117:SER:OG	2:CY:118:PHE:N	2.41	0.53
3:DU:145:VAL:HG22	3:DU:188:LEU:HD12	1.91	0.53
1:AJ:19:LEU:HD12	3:DL:160:TYR:HB3	242.92	0.53
3:DB:101:ARG:HA	3:DB:160:TYR:HE2	1.73	0.53
1:AK:19:LEU:HD12	3:DK:160:TYR:HB3	1.89	0.53
3:DO:101:ARG:HA	3:DO:160:TYR:HE2	1.73	0.53
1:AE:212:ARG:HG2	1:AE:214:PRO:HD3	1.91	0.53
1:AG:212:ARG:HG2	1:AG:214:PRO:HD3	1.91	0.53
1:AJ:99:GLU:OE2	1:AJ:101:PHE:HE1	1.92	0.53
1:AJ:212:ARG:HG2	1:AJ:214:PRO:HD3	1.91	0.53
1:AM:212:ARG:HG2	1:AM:214:PRO:HD3	1.91	0.53
1:AR:118:ALA:HB2	1:AR:132:GLN:NE2	2.23	0.53
1:AW:212:ARG:HG2	1:AW:214:PRO:HD3	1.91	0.53
1:AX:212:ARG:HG2	1:AX:214:PRO:HD3	1.91	0.53
1:BH:99:GLU:OE2	1:BH:101:PHE:HE1	1.92	0.53
3:DE:15:MET:HB3	3:DE:18:VAL:HG13	1.90	0.53
1:BH:157:SER:CB	3:ED:24:PRO:HA	2.36	0.53
1:AC:186:TRP:O	1:AC:187:LEU:HB3	2.09	0.53
1:AL:186:TRP:O	1:AL:187:LEU:HB3	2.09	0.53
1:AQ:186:TRP:O	1:AQ:187:LEU:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:186:TRP:O	1:BF:187:LEU:HB3	2.09	0.53
1:AT:186:TRP:O	1:AT:187:LEU:HB3	2.09	0.53
1:BE:186:TRP:O	1:BE:187:LEU:HB3	2.09	0.53
1:AC:181:LYS:HA	2:CE:137:GLU:HG3	101.01	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:A3:103:TRP:HB2	1:A3:198:THR:HG22	1.90	0.53
1:BG:103:TRP:HB2	1:BG:198:THR:HG22	1.89	0.53
1:A1:48:LEU:HD21	1:A1:103:TRP:CZ3	2.43	0.53
1:AY:115:THR:OG1	1:AY:133:LEU:HB2	2.08	0.53
1:AS:48:LEU:HD21	1:AS:103:TRP:CZ3	2.43	0.53
2:C2:226:LEU:CD2	3:D3:126:PRO:HG2	2.36	0.53
2:CW:226:LEU:CD2	3:DX:126:PRO:HG2	2.36	0.53
1:AF:221:PRO:CA	3:DF:40:PHE:HE2	2.21	0.53
2:CV:27:GLN:HG3	2:CV:28:GLY:H	1.73	0.53
1:AT:221:PRO:CA	3:DU:40:PHE:HE2	2.21	0.53
1:AS:181:LYS:HA	2:CT:137:GLU:HG3	1.89	0.53
1:AL:165:ARG:HB2	3:DL:33:PRO:O	2.07	0.53
1:AL:165:ARG:HD3	2:CL:182:PRO:HG3	1.90	0.53
1:AH:165:ARG:HD3	2:CJ:182:PRO:HG3	81.68	0.53
1:AK:165:ARG:HD3	2:CK:182:PRO:HG3	1.90	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:AW:165:ARG:HD3	2:CX:182:PRO:HG3	1.90	0.53
2:CP:69:TRP:HD1	2:CP:70:PRO:N	2.07	0.53
2:CU:69:TRP:HD1	2:CU:70:PRO:N	2.07	0.53
2:CV:69:TRP:CZ3	2:CV:124:LEU:CG	2.92	0.53
1:AU:165:ARG:HD3	2:CV:182:PRO:HG3	1.90	0.53
2:CZ:69:TRP:HD1	2:CZ:70:PRO:N	2.07	0.53
2:CR:69:TRP:CZ3	2:CR:124:LEU:CG	2.92	0.53
2:CH:69:TRP:CZ3	2:CH:124:LEU:CG	2.92	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:CE:69:TRP:HD1	2:CE:70:PRO:N	2.07	0.53
2:CO:69:TRP:CZ3	2:CO:124:LEU:CG	2.92	0.53
2:CW:69:TRP:CZ3	2:CW:124:LEU:CG	2.92	0.53
1:BB:219:TYR:OH	3:DQ:34:ARG:HD2	115.57	0.53
2:CN:69:TRP:CZ3	2:CN:124:LEU:CG	2.92	0.53
2:CL:69:TRP:CZ3	2:CL:124:LEU:CG	2.92	0.53
2:CI:69:TRP:CZ3	2:CI:124:LEU:CG	2.92	0.53
1:AP:86:ILE:H	1:AP:86:ILE:HD12	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:90:VAL:HG11	3:DC:208:VAL:HG12	1.91	0.53
3:DI:90:VAL:HG11	3:DI:208:VAL:HG12	1.91	0.53
3:DV:90:VAL:HG11	3:DV:208:VAL:HG12	1.91	0.53
1:AC:239:PHE:HD2	3:DE:226:GLN:NE2	81.05	0.53
1:BC:239:PHE:HD2	3:DR:226:GLN:NE2	154.06	0.53
1:BD:104:VAL:HG22	1:BD:197:LEU:HD21	1.90	0.53
1:BI:104:VAL:HG22	1:BI:197:LEU:HD21	1.90	0.53
1:AX:104:VAL:HG22	1:AX:197:LEU:HD21	1.90	0.53
2:CN:225:PRO:HG2	3:DJ:141:CYS:HA	235.58	0.53
4:F4:22:VAL:HB	4:F8:25:PHE:HE1	1.72	0.53
2:CV:225:PRO:HG2	3:DW:141:CYS:HA	1.89	0.53
3:D3:48:LYS:HA	3:D3:210:ALA:HB3	1.90	0.53
1:A7:55:HIS:O	1:A7:194:SER:CB	2.56	0.53
3:DL:107:ASN:HA	3:DL:154:PHE:O	2.08	0.53
1:AV:55:HIS:O	1:AV:194:SER:CB	2.56	0.53
1:A4:55:HIS:O	1:A4:194:SER:CB	2.56	0.53
2:CC:228:ASN:ND2	3:DD:140:ALA:HB2	2.24	0.53
2:CL:228:ASN:ND2	3:DM:140:ALA:HB2	2.24	0.53
1:AW:55:HIS:O	1:AW:194:SER:CB	2.57	0.53
3:DA:145:VAL:HG22	3:DA:188:LEU:HD12	1.91	0.53
3:DM:145:VAL:HG22	3:DM:188:LEU:HD12	1.91	0.53
3:EE:145:VAL:HG22	3:EE:188:LEU:HD12	1.91	0.53
3:DG:145:VAL:HG22	3:DG:188:LEU:HD12	1.91	0.53
3:DP:145:VAL:HG22	3:DP:188:LEU:HD12	1.91	0.53
3:D3:145:VAL:HG22	3:D3:188:LEU:HD12	1.91	0.53
3:EC:145:VAL:HG22	3:EC:188:LEU:HD12	1.91	0.53
3:DX:101:ARG:HA	3:DX:160:TYR:HE2	1.73	0.53
3:EE:101:ARG:HA	3:EE:160:TYR:HE2	1.73	0.53
1:A9:99:GLU:OE2	1:A9:101:PHE:HE1	1.92	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:212:ARG:HG2	1:AL:214:PRO:HD3	1.91	0.53
1:AP:99:GLU:OE2	1:AP:101:PHE:HE1	1.92	0.53
1:AS:99:GLU:OE2	1:AS:101:PHE:HE1	1.92	0.53
1:BE:212:ARG:HG2	1:BE:214:PRO:HD3	1.91	0.53
1:AH:157:SER:CB	3:DJ:24:PRO:HA	39.09	0.53
1:A3:206:GLY:HA3	1:A7:121:LEU:CD2	2.39	0.53
1:A3:212:ARG:HG2	1:A3:214:PRO:HD3	1.91	0.53
1:BH:212:ARG:HG2	1:BH:214:PRO:HD3	1.91	0.53
1:A4:212:ARG:HG2	1:A4:214:PRO:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:212:ARG:HG2	1:A2:214:PRO:HD3	1.91	0.53
1:AY:212:ARG:O	1:AY:214:PRO:HD2	2.09	0.53
1:AB:186:TRP:O	1:AB:187:LEU:HB3	2.09	0.53
1:A9:186:TRP:O	1:A9:187:LEU:HB3	2.09	0.53
1:AH:186:TRP:O	1:AH:187:LEU:HB3	2.09	0.53
2:CY:209:VAL:N	2:CY:210:PRO:CD	2.68	0.53
1:AP:103:TRP:HB2	1:AP:198:THR:HG22	1.89	0.53
1:BI:181:LYS:HA	2:CX:137:GLU:HG3	186.24	0.53
1:AR:48:LEU:HD21	1:AR:103:TRP:CZ3	2.43	0.53
1:AA:48:LEU:HD21	1:AA:103:TRP:CE3	2.44	0.53
1:BI:48:LEU:HD21	1:BI:103:TRP:CZ3	2.43	0.53
1:AF:48:LEU:HD21	1:AF:103:TRP:CZ3	2.43	0.53
1:BA:48:LEU:HD21	1:BA:103:TRP:CE3	2.44	0.53
1:AV:48:LEU:HD21	1:AV:103:TRP:CE3	2.44	0.53
1:AU:103:TRP:HB2	1:AU:198:THR:HG22	1.89	0.53
2:CX:27:GLN:HG3	2:CX:28:GLY:H	1.73	0.53
2:CQ:27:GLN:HG3	2:CQ:28:GLY:H	1.73	0.53
1:A2:221:PRO:CA	3:D3:40:PHE:HE2	2.21	0.53
1:BB:30:VAL:HG13	1:BB:218:MET:HE2	1.90	0.53
1:AD:219:TYR:OH	3:DF:34:ARG:HD2	102.86	0.53
2:C9:84:PRO:HG3	2:C9:108:TRP:HH2	1.72	0.53
1:AG:219:TYR:OH	3:DI:34:ARG:HD2	69.19	0.53
1:A9:219:TYR:OH	3:DA:34:ARG:HD2	219.13	0.53
1:BI:165:ARG:HD3	2:CX:182:PRO:HG3	156.59	0.53
1:BI:219:TYR:OH	3:EE:34:ARG:HD2	2.08	0.53
1:AR:165:ARG:HD3	2:CR:182:PRO:HG3	1.90	0.53
2:CA:69:TRP:HD1	2:CA:70:PRO:N	2.07	0.53
1:A4:165:ARG:HD3	2:C5:182:PRO:HG3	1.90	0.53
1:A6:219:TYR:OH	3:D7:34:ARG:HD2	2.08	0.53
2:CR:69:TRP:HD1	2:CR:70:PRO:N	2.07	0.53
3:DH:56:ILE:HG13	3:DH:74:PHE:HE1	1.72	0.53
2:CY:69:TRP:HD1	2:CY:70:PRO:N	2.07	0.53
1:BF:181:LYS:HA	2:CU:137:GLU:HG3	273.27	0.53
2:CQ:69:TRP:HD1	2:CQ:70:PRO:N	2.07	0.53
1:AK:86:ILE:HD12	1:AK:86:ILE:H	1.72	0.53
1:A5:165:ARG:HD3	2:C6:182:PRO:HG3	1.90	0.53
2:CM:69:TRP:CZ3	2:CM:124:LEU:CG	2.92	0.53
2:CM:69:TRP:HD1	2:CM:70:PRO:N	2.07	0.53
1:A2:86:ILE:HD12	1:A2:86:ILE:H	1.72	0.53
2:CB:69:TRP:CZ3	2:CB:124:LEU:CG	2.92	0.53
3:DS:90:VAL:HG11	3:DS:208:VAL:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DO:90:VAL:HG11	3:DO:208:VAL:HG12	1.91	0.53
3:D1:90:VAL:HG11	3:D1:208:VAL:HG12	1.91	0.53
1:A2:104:VAL:HG22	1:A2:197:LEU:HD21	1.90	0.53
1:AR:104:VAL:HG22	1:AR:197:LEU:HD21	1.90	0.53
1:BE:104:VAL:HG22	1:BE:197:LEU:HD21	1.90	0.53
1:AS:104:VAL:HG22	1:AS:197:LEU:HD21	1.90	0.53
1:AL:109:VAL:HG23	1:AL:161:THR:OG1	2.09	0.53
1:AE:109:VAL:HG23	1:AE:161:THR:OG1	2.09	0.53
1:AL:176:ALA:HB1	3:DJ:174:ALA:O	273.44	0.53
1:A6:176:ALA:HB1	3:D8:174:ALA:O	2.07	0.53
3:DA:169:VAL:O	3:DA:169:VAL:HG12	2.09	0.53
3:DO:169:VAL:O	3:DO:169:VAL:HG12	2.09	0.53
3:DR:169:VAL:O	3:DR:169:VAL:HG12	2.09	0.53
3:DN:169:VAL:O	3:DN:169:VAL:HG12	2.09	0.53
3:DK:169:VAL:HG12	3:DK:169:VAL:O	2.09	0.53
2:CJ:228:ASN:ND2	3:DK:140:ALA:HB2	270.55	0.53
2:C1:228:ASN:ND2	3:D2:140:ALA:HB2	2.24	0.53
2:CG:228:ASN:ND2	3:DH:140:ALA:HB2	2.24	0.53
2:CH:228:ASN:ND2	3:DI:140:ALA:HB2	2.24	0.53
2:CX:228:ASN:ND2	3:DY:140:ALA:HB2	2.24	0.53
1:AJ:55:HIS:O	1:AJ:194:SER:CB	2.57	0.53
3:D4:48:LYS:HA	3:D4:210:ALA:HB3	1.90	0.53
2:C6:228:ASN:ND2	3:D7:140:ALA:HB2	2.24	0.53
1:AB:55:HIS:O	1:AB:194:SER:CB	2.56	0.53
1:AC:55:HIS:O	1:AC:194:SER:CB	2.56	0.53
1:AK:55:HIS:O	1:AK:194:SER:CB	2.56	0.53
1:AG:55:HIS:O	1:AG:194:SER:CB	2.56	0.53
2:CZ:225:PRO:HG2	3:D0:141:CYS:HA	1.89	0.53
2:C0:228:ASN:ND2	3:D1:140:ALA:HB2	2.24	0.53
2:CZ:228:ASN:ND2	3:D0:140:ALA:HB2	2.24	0.53
2:CI:117:SER:OG	2:CI:118:PHE:N	2.41	0.53
3:ED:145:VAL:HG22	3:ED:188:LEU:HD12	1.91	0.53
3:DD:145:VAL:HG22	3:DD:188:LEU:HD12	1.91	0.53
3:D8:145:VAL:HG22	3:D8:188:LEU:HD12	1.91	0.53
3:D5:145:VAL:HG22	3:D5:188:LEU:HD12	1.91	0.53
3:DR:145:VAL:HG22	3:DR:188:LEU:HD12	1.91	0.53
3:DZ:145:VAL:HG22	3:DZ:188:LEU:HD12	1.91	0.53
3:DF:145:VAL:HG22	3:DF:188:LEU:HD12	1.91	0.53
3:EA:145:VAL:HG22	3:EA:188:LEU:HD12	1.91	0.53
2:C4:117:SER:OG	2:C4:118:PHE:N	2.41	0.53
1:AL:19:LEU:HD12	3:DN:160:TYR:HB3	90.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:206:GLY:HA3	1:AN:121:LEU:CD2	265.92	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	134.63	0.53
1:AH:212:ARG:O	1:AH:214:PRO:HD2	2.09	0.53
1:AL:99:GLU:OE2	1:AL:101:PHE:HE1	1.92	0.53
1:AU:212:ARG:O	1:AU:214:PRO:HD2	2.09	0.53
1:AT:206:GLY:HA3	1:AX:121:LEU:CD2	2.39	0.53
1:BA:118:ALA:HB2	1:BA:132:GLN:NE2	2.23	0.53
1:BB:212:ARG:O	1:BB:214:PRO:HD2	2.09	0.53
1:BC:212:ARG:HG2	1:BC:214:PRO:HD3	1.91	0.53
1:BD:212:ARG:HG2	1:BD:214:PRO:HD3	1.91	0.53
1:BE:212:ARG:O	1:BE:214:PRO:HD2	2.09	0.53
1:BI:99:GLU:OE2	1:BI:101:PHE:HE1	1.92	0.53
1:AL:157:SER:CB	3:DN:24:PRO:HA	39.09	0.53
1:A3:212:ARG:O	1:A3:214:PRO:HD2	2.09	0.53
3:DW:15:MET:HB3	3:DW:18:VAL:HG13	1.90	0.53
1:A3:121:LEU:CD2	1:A4:206:GLY:HA3	2.39	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:AN:186:TRP:O	1:AN:187:LEU:HB3	2.09	0.53
1:BD:186:TRP:O	1:BD:187:LEU:HB3	2.09	0.53
1:AK:186:TRP:O	1:AK:187:LEU:HB3	2.09	0.53
1:A5:99:GLU:OE2	1:A5:101:PHE:HE1	1.92	0.53
1:BC:186:TRP:O	1:BC:187:LEU:HB3	2.09	0.53
1:BD:181:LYS:HA	2:CS:137:GLU:HG3	169.24	0.53
2:C3:80:ILE:HG23	2:C3:82:PRO:HD3	1.91	0.53
1:BE:48:LEU:HD21	1:BE:103:TRP:CE3	2.44	0.53
1:BE:103:TRP:HB2	1:BE:198:THR:HG22	1.89	0.53
1:AP:48:LEU:HD21	1:AP:103:TRP:CE3	2.44	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:A3:48:LEU:HD21	1:A3:103:TRP:CZ3	2.43	0.53
1:A6:48:LEU:HD21	1:A6:103:TRP:CE3	2.44	0.53
1:A2:48:LEU:HD21	1:A2:103:TRP:CZ3	2.43	0.53
1:BH:48:LEU:HD21	1:BH:103:TRP:CZ3	2.43	0.53
1:A5:48:LEU:HD21	1:A5:103:TRP:CZ3	2.43	0.53
1:AW:103:TRP:HB2	1:AW:198:THR:HG22	1.89	0.53
1:BB:103:TRP:HB2	1:BB:198:THR:HG22	1.89	0.53
1:BA:181:LYS:HA	2:CP:137:GLU:HG3	116.77	0.53
1:AH:48:LEU:HD21	1:AH:103:TRP:CE3	2.44	0.53
2:CJ:226:LEU:CD2	3:DK:126:PRO:HG2	264.02	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:48:LEU:HD21	1:BC:103:TRP:CE3	2.44	0.53
3:EA:108:PHE:HA	3:EA:205:LEU:O	2.09	0.53
2:CF:226:LEU:CD2	3:DG:126:PRO:HG2	2.36	0.53
1:AA:30:VAL:HG13	1:AA:218:MET:HE2	1.99	0.53
2:CO:27:GLN:HG3	2:CO:28:GLY:H	1.73	0.53
2:C8:27:GLN:HG3	2:C8:28:GLY:H	1.74	0.53
3:D5:108:PHE:HA	3:D5:205:LEU:O	2.09	0.53
1:AR:221:PRO:CA	3:DR:40:PHE:HE2	2.21	0.53
1:AF:165:ARG:HD3	2:CF:182:PRO:HG3	1.90	0.53
1:AF:165:ARG:HD3	2:CH:182:PRO:HG3	81.68	0.53
1:AL:165:ARG:HD3	2:CN:182:PRO:HG3	81.68	0.53
1:AA:165:ARG:HD3	2:CA:182:PRO:HG3	1.90	0.53
1:BD:165:ARG:HD3	2:CS:182:PRO:HG3	141.90	0.53
1:AM:165:ARG:HD3	2:CM:182:PRO:HG3	1.90	0.53
1:BH:165:ARG:HD3	2:CW:182:PRO:HG3	198.63	0.53
1:BE:165:ARG:HD3	2:CT:182:PRO:HG3	183.75	0.53
2:C0:69:TRP:HD1	2:C0:70:PRO:N	2.07	0.53
1:A7:86:ILE:H	1:A7:86:ILE:HD12	1.73	0.53
3:ED:90:VAL:HG11	3:ED:208:VAL:HG12	1.91	0.53
1:AE:239:PHE:CD1	3:DG:170:TYR:CD2	118.85	0.53
1:A7:104:VAL:HG22	1:A7:197:LEU:HD21	1.90	0.53
1:AI:109:VAL:HG23	1:AI:161:THR:OG1	2.09	0.53
1:AH:109:VAL:HG23	1:AH:161:THR:OG1	2.09	0.53
1:AF:109:VAL:HG23	1:AF:161:THR:OG1	2.09	0.53
1:BD:109:VAL:HG23	1:BD:161:THR:OG1	2.09	0.53
1:BI:109:VAL:HG23	1:BI:161:THR:OG1	2.09	0.53
1:AY:109:VAL:HG23	1:AY:161:THR:OG1	2.09	0.53
1:BE:109:VAL:HG23	1:BE:161:THR:OG1	2.09	0.53
3:D1:169:VAL:O	3:D1:169:VAL:HG12	2.09	0.53
3:DJ:169:VAL:O	3:DJ:169:VAL:HG12	2.09	0.53
3:DH:169:VAL:HG12	3:DH:169:VAL:O	2.09	0.53
2:CT:228:ASN:ND2	3:DP:140:ALA:HB2	2.24	0.53
2:C7:228:ASN:ND2	3:D8:140:ALA:HB2	2.24	0.53
2:CA:228:ASN:ND2	3:DB:140:ALA:HB2	2.24	0.53
2:CI:228:ASN:ND2	3:DJ:140:ALA:HB2	2.24	0.53
2:CK:228:ASN:ND2	3:DL:140:ALA:HB2	2.24	0.53
1:BE:55:HIS:O	1:BE:194:SER:CB	2.56	0.53
1:AH:55:HIS:O	1:AH:194:SER:CB	2.56	0.53
1:BA:55:HIS:O	1:BA:194:SER:CB	2.57	0.53
1:AD:55:HIS:O	1:AD:194:SER:CB	2.57	0.53
1:AN:55:HIS:O	1:AN:194:SER:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:48:LYS:HA	3:D8:210:ALA:HB3	1.90	0.53
1:BE:118:ALA:HB2	1:BE:132:GLN:NE2	2.23	0.53
1:AI:55:HIS:O	1:AI:194:SER:CB	2.57	0.53
1:AZ:55:HIS:O	1:AZ:194:SER:CB	2.56	0.53
2:C8:117:SER:OG	2:C8:118:PHE:N	2.41	0.53
3:DH:145:VAL:HG22	3:DH:188:LEU:HD12	1.91	0.53
3:DK:145:VAL:HG22	3:DK:188:LEU:HD12	1.91	0.53
3:DE:145:VAL:HG22	3:DE:188:LEU:HD12	1.91	0.53
3:DC:145:VAL:HG22	3:DC:188:LEU:HD12	1.91	0.53
3:DT:145:VAL:HG22	3:DT:188:LEU:HD12	1.91	0.53
3:DH:101:ARG:HA	3:DH:160:TYR:HE2	1.73	0.53
3:DZ:101:ARG:HA	3:DZ:160:TYR:HE2	1.73	0.53
3:DW:101:ARG:HA	3:DW:160:TYR:HE2	1.72	0.53
1:A9:212:ARG:HG2	1:A9:214:PRO:HD3	1.91	0.53
1:AB:99:GLU:OE2	1:AB:101:PHE:HE1	1.92	0.53
1:AF:212:ARG:O	1:AF:214:PRO:HD2	2.09	0.53
1:AH:121:LEU:CD2	1:AI:206:GLY:HA3	2.39	0.53
1:AK:212:ARG:O	1:AK:214:PRO:HD2	2.09	0.53
1:AK:99:GLU:OE2	1:AK:101:PHE:HE1	1.92	0.53
1:AO:99:GLU:OE2	1:AO:101:PHE:HE1	1.92	0.53
1:AR:212:ARG:HG2	1:AR:214:PRO:HD3	1.91	0.53
1:AU:212:ARG:HG2	1:AU:214:PRO:HD3	1.91	0.53
1:BA:212:ARG:HG2	1:BA:214:PRO:HD3	1.91	0.53
1:BA:99:GLU:OE2	1:BA:101:PHE:HE1	1.92	0.53
1:BD:212:ARG:O	1:BD:214:PRO:HD2	2.09	0.53
1:BD:99:GLU:OE2	1:BD:101:PHE:HE1	1.92	0.53
1:BF:212:ARG:HG2	1:BF:214:PRO:HD3	1.91	0.53
3:DH:15:MET:HB3	3:DH:18:VAL:HG13	1.90	0.53
1:AJ:157:SER:CB	3:DJ:24:PRO:HA	2.35	0.53
3:EE:15:MET:HB3	3:EE:18:VAL:HG13	1.90	0.53
1:A6:121:LEU:CD2	1:A7:206:GLY:HA3	2.39	0.53
1:A4:121:LEU:CD2	1:A5:206:GLY:HA3	2.39	0.53
1:AS:186:TRP:O	1:AS:187:LEU:HB3	2.09	0.53
2:CH:209:VAL:N	2:CH:210:PRO:CD	2.68	0.53
2:C7:209:VAL:N	2:C7:210:PRO:CD	2.68	0.53
1:AO:181:LYS:HA	2:CS:137:GLU:HG3	112.00	0.53
2:C7:80:ILE:HG23	2:C7:82:PRO:HD3	1.91	0.53
1:A4:48:LEU:HD21	1:A4:103:TRP:CE3	2.44	0.53
1:AY:48:LEU:HD21	1:AY:103:TRP:CE3	2.44	0.53
1:AV:103:TRP:HB2	1:AV:198:THR:HG22	1.89	0.53
1:AQ:48:LEU:HD21	1:AQ:103:TRP:CZ3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:73:GLN:NE2	2:CL:73:GLN:HA	2.17	0.53
3:DF:108:PHE:HA	3:DF:205:LEU:O	2.09	0.53
1:AD:221:PRO:CA	3:DD:40:PHE:HE2	2.21	0.53
2:CZ:27:GLN:HG3	2:CZ:28:GLY:H	1.73	0.53
2:C2:27:GLN:HG3	2:C2:28:GLY:H	1.73	0.53
1:A0:221:PRO:CA	3:D1:40:PHE:HE2	2.21	0.53
1:AD:219:TYR:OH	3:DD:34:ARG:HD2	2.08	0.53
1:AB:165:ARG:HD3	2:CD:182:PRO:HG3	81.68	0.53
1:AB:219:TYR:OH	3:DB:34:ARG:HD2	2.08	0.53
1:AN:219:TYR:OH	3:DB:34:ARG:HD2	183.40	0.53
1:A0:165:ARG:HD3	2:CO:182:PRO:HG3	1.90	0.53
1:AE:219:TYR:OH	3:DE:34:ARG:HD2	2.08	0.53
1:AI:219:TYR:OH	3:DI:34:ARG:HD2	2.08	0.53
1:AP:219:TYR:OH	3:DP:34:ARG:HD2	2.08	0.53
1:A8:165:ARG:HD3	2:C9:182:PRO:HG3	1.90	0.53
2:CF:124:LEU:HD12	2:CF:163:LEU:HD12	1.91	0.53
2:CP:69:TRP:CZ3	2:CP:124:LEU:CG	2.92	0.53
3:DK:56:ILE:HD13	3:DK:206:VAL:HG11	1.91	0.53
3:DK:56:ILE:HG13	3:DK:74:PHE:HE1	1.72	0.53
1:BG:219:TYR:OH	3:EC:34:ARG:HD2	2.08	0.53
1:AY:165:ARG:HD3	2:CZ:182:PRO:HG3	1.90	0.53
3:D7:56:ILE:HG13	3:D7:74:PHE:HE1	1.72	0.53
2:C0:69:TRP:CZ3	2:C0:124:LEU:CG	2.92	0.53
3:D0:56:ILE:HG13	3:D0:74:PHE:HE1	1.72	0.53
2:CO:69:TRP:HD1	2:CO:70:PRO:N	2.07	0.53
2:CT:69:TRP:HD1	2:CT:70:PRO:N	2.07	0.53
3:DO:56:ILE:HD13	3:DO:206:VAL:HG11	1.91	0.53
2:CD:69:TRP:CZ3	2:CD:124:LEU:CG	2.92	0.53
2:CS:69:TRP:CZ3	2:CS:124:LEU:CG	2.92	0.53
3:DW:90:VAL:HG11	3:DW:208:VAL:HG12	1.91	0.53
3:EE:90:VAL:HG11	3:EE:208:VAL:HG12	1.91	0.53
3:DT:90:VAL:HG11	3:DT:208:VAL:HG12	1.91	0.53
1:AK:239:PHE:CD1	3:DK:170:TYR:CD2	2.96	0.53
1:A0:239:PHE:CD1	3:DO:170:TYR:CD2	2.96	0.53
1:AZ:104:VAL:HG22	1:AZ:197:LEU:HD21	1.90	0.53
1:AI:104:VAL:HG22	1:AI:197:LEU:HD21	1.90	0.53
1:BH:104:VAL:HG22	1:BH:197:LEU:HD21	1.90	0.53
1:AD:104:VAL:HG22	1:AD:197:LEU:HD21	1.90	0.53
1:BC:109:VAL:HG23	1:BC:161:THR:OG1	2.09	0.53
1:AN:109:VAL:HG23	1:AN:161:THR:OG1	2.09	0.53
1:A8:109:VAL:HG23	1:A8:161:THR:OG1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:109:VAL:HG23	1:AM:161:THR:OG1	2.09	0.53
1:AT:109:VAL:H	1:AT:161:THR:HB	1.74	0.53
1:AQ:109:VAL:HG23	1:AQ:161:THR:OG1	2.09	0.53
3:DP:169:VAL:HG12	3:DP:169:VAL:O	2.09	0.53
3:DF:169:VAL:HG12	3:DF:169:VAL:O	2.09	0.53
1:AZ:176:ALA:HB1	3:D1:174:ALA:O	2.07	0.53
3:DI:169:VAL:HG12	3:DI:169:VAL:O	2.09	0.53
3:DU:169:VAL:O	3:DU:169:VAL:HG12	2.09	0.53
1:BD:118:ALA:HB2	1:BD:132:GLN:NE2	2.23	0.53
2:CE:228:ASN:ND2	3:DF:140:ALA:HB2	23.15	0.53
1:A9:55:HIS:O	1:A9:194:SER:CB	2.56	0.53
3:EE:107:ASN:HA	3:EE:154:PHE:O	2.07	0.53
1:A2:55:HIS:O	1:A2:194:SER:CB	2.56	0.53
1:AM:55:HIS:O	1:AM:194:SER:CB	2.56	0.53
2:CF:228:ASN:ND2	3:DG:140:ALA:HB2	2.24	0.53
1:AP:109:VAL:HG23	1:AP:161:THR:OG1	2.09	0.53
1:AY:55:HIS:O	1:AY:194:SER:CB	2.56	0.53
3:D9:48:LYS:HA	3:D9:210:ALA:HB3	1.90	0.53
2:CH:117:SER:OG	2:CH:118:PHE:N	2.41	0.53
3:DQ:145:VAL:HG22	3:DQ:188:LEU:HD12	1.91	0.53
1:AB:212:ARG:O	1:AB:214:PRO:HD2	2.09	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:AM:99:GLU:OE2	1:AM:101:PHE:HE1	1.92	0.53
1:AQ:212:ARG:HG2	1:AQ:214:PRO:HD3	1.91	0.53
1:BI:212:ARG:HG2	1:BI:214:PRO:HD3	1.91	0.53
3:ED:15:MET:HB3	3:ED:18:VAL:HG13	1.90	0.53
1:A1:212:ARG:HG2	1:A1:214:PRO:HD3	1.91	0.53
1:AZ:157:SER:CB	3:D0:24:PRO:HA	2.36	0.53
1:AF:186:TRP:O	1:AF:187:LEU:HB3	2.09	0.53
1:A5:121:LEU:CD2	1:A6:206:GLY:HA3	2.39	0.53
1:AV:186:TRP:O	1:AV:187:LEU:HB3	2.09	0.53
2:CF:80:ILE:HG23	2:CF:82:PRO:HD3	1.91	0.53
2:C6:80:ILE:HG23	2:C6:82:PRO:HD3	1.91	0.53
1:AJ:48:LEU:HD21	1:AJ:103:TRP:CE3	2.44	0.53
1:AN:48:LEU:HD21	1:AN:103:TRP:CE3	2.44	0.53
2:CN:226:LEU:CD2	3:DO:126:PRO:HG2	2.36	0.53
3:DM:108:PHE:HA	3:DM:205:LEU:O	2.09	0.53
3:DG:108:PHE:HA	3:DG:205:LEU:O	2.09	0.53
1:AK:30:VAL:HG13	1:AK:218:MET:HE2	1.90	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:DK:108:PHE:HA	3:DK:205:LEU:O	2.09	0.53
3:DC:108:PHE:HA	3:DC:205:LEU:O	2.09	0.53
3:DD:108:PHE:HA	3:DD:205:LEU:O	2.09	0.53
1:A4:221:PRO:CA	3:D5:40:PHE:HE2	2.21	0.53
1:A7:219:TYR:OH	3:D8:34:ARG:HD2	2.08	0.53
1:AE:165:ARG:HD3	2:CG:182:PRO:HG3	121.93	0.53
1:AP:165:ARG:HD3	2:CP:182:PRO:HG3	1.90	0.53
2:CG:69:TRP:HD1	2:CG:70:PRO:N	2.07	0.53
3:DG:56:ILE:HD13	3:DG:206:VAL:HG11	1.91	0.53
2:CA:69:TRP:CZ3	2:CA:124:LEU:CG	2.92	0.53
2:C5:69:TRP:HD1	2:C5:70:PRO:N	2.07	0.53
2:C6:69:TRP:CZ3	2:C6:124:LEU:CG	2.92	0.53
2:C7:69:TRP:CZ3	2:C7:124:LEU:CG	2.92	0.53
2:CC:124:LEU:HD12	2:CC:163:LEU:HD12	1.91	0.53
3:DC:56:ILE:HD13	3:DC:206:VAL:HG11	1.91	0.53
2:CE:69:TRP:CZ3	2:CE:124:LEU:CG	2.92	0.53
2:CT:69:TRP:CZ3	2:CT:124:LEU:CG	2.92	0.53
3:DT:56:ILE:HD13	3:DT:206:VAL:HG11	1.91	0.53
2:CW:69:TRP:HD1	2:CW:70:PRO:N	2.07	0.53
2:CS:69:TRP:HD1	2:CS:70:PRO:N	2.07	0.53
3:DX:56:ILE:HG13	3:DX:74:PHE:HE1	1.72	0.53
2:CI:69:TRP:HD1	2:CI:70:PRO:N	2.07	0.53
3:DB:56:ILE:HG13	3:DB:74:PHE:HE1	1.72	0.53
3:DN:90:VAL:HG11	3:DN:208:VAL:HG12	1.91	0.53
3:DK:90:VAL:HG11	3:DK:208:VAL:HG12	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:D6:90:VAL:HG11	3:D6:208:VAL:HG12	1.91	0.53
1:AY:239:PHE:CD1	3:DZ:170:TYR:CD2	2.96	0.53
1:BB:104:VAL:HG22	1:BB:197:LEU:HD21	1.90	0.53
1:AF:104:VAL:HG22	1:AF:197:LEU:HD21	1.90	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:AG:109:VAL:HG23	1:AG:161:THR:OG1	2.09	0.53
1:AA:109:VAL:HG23	1:AA:161:THR:OG1	2.09	0.53
1:BA:109:VAL:HG23	1:BA:161:THR:OG1	2.09	0.53
1:AO:109:VAL:HG23	1:AO:161:THR:OG1	2.09	0.53
1:AU:109:VAL:HG23	1:AU:161:THR:OG1	2.09	0.53
1:A2:109:VAL:HG23	1:A2:161:THR:OG1	2.09	0.53
1:BB:109:VAL:HG23	1:BB:161:THR:OG1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:169:VAL:HG12	3:D8:169:VAL:O	2.09	0.53
3:EE:169:VAL:O	3:EE:169:VAL:HG12	2.09	0.53
3:DB:169:VAL:O	3:DB:169:VAL:HG12	2.09	0.53
2:CN:228:ASN:ND2	3:DJ:140:ALA:HB2	240.85	0.53
2:CD:228:ASN:ND2	3:DE:140:ALA:HB2	2.24	0.53
2:CW:228:ASN:ND2	3:EE:140:ALA:HB2	207.22	0.53
1:A1:55:HIS:O	1:A1:194:SER:CB	2.56	0.53
1:AU:55:HIS:O	1:AU:194:SER:CB	2.57	0.53
3:DU:107:ASN:HA	3:DU:154:PHE:O	2.07	0.53
1:A5:55:HIS:O	1:A5:194:SER:CB	2.56	0.53
2:C5:225:PRO:HG2	3:D6:141:CYS:HA	1.89	0.53
2:CZ:60:ARG:O	2:CZ:216:ALA:HB1	2.07	0.53
1:AR:109:VAL:H	1:AR:161:THR:HB	1.74	0.53
2:CH:115:ASN:OD1	3:DS:119:LYS:CD	157.70	0.53
3:DB:145:VAL:HG22	3:DB:188:LEU:HD12	1.91	0.53
2:CQ:115:ASN:OD1	3:DP:119:LYS:CD	112.00	0.53
2:CG:117:SER:OG	2:CG:118:PHE:N	2.41	0.53
2:CG:115:ASN:OD1	3:D3:119:LYS:CD	255.48	0.53
3:DL:145:VAL:HG22	3:DL:188:LEU:HD12	1.91	0.53
3:D1:145:VAL:HG22	3:D1:188:LEU:HD12	1.91	0.53
3:DV:145:VAL:HG22	3:DV:188:LEU:HD12	1.91	0.53
1:AA:99:GLU:OE2	1:AA:101:PHE:HE1	1.92	0.53
1:AL:212:ARG:O	1:AL:214:PRO:HD2	2.09	0.53
1:AN:212:ARG:HG2	1:AN:214:PRO:HD3	1.91	0.53
1:AQ:212:ARG:O	1:AQ:214:PRO:HD2	2.09	0.53
1:AT:212:ARG:HG2	1:AT:214:PRO:HD3	1.91	0.53
1:BG:212:ARG:O	1:BG:214:PRO:HD2	2.09	0.53
3:DB:42:ASN:HD22	3:DB:44:ILE:N	2.08	0.53
3:DW:42:ASN:HD22	3:DW:44:ILE:N	2.08	0.53
1:A6:99:GLU:OE2	1:A6:101:PHE:HE1	1.92	0.53
1:A7:212:ARG:HG2	1:A7:214:PRO:HD3	1.91	0.53
3:D9:42:ASN:HD22	3:D9:44:ILE:HG22	1.65	0.53
1:A4:118:ALA:HB2	1:A4:132:GLN:NE2	2.23	0.53
1:A0:212:ARG:HG2	1:A0:214:PRO:HD3	1.91	0.53
1:AU:186:TRP:O	1:AU:187:LEU:HB3	2.09	0.53
1:A8:186:TRP:O	1:A8:187:LEU:HB3	2.09	0.53
1:AD:186:TRP:O	1:AD:187:LEU:HB3	2.09	0.53
2:C5:80:ILE:HG23	2:C5:82:PRO:HD3	1.91	0.53
2:CG:80:ILE:HG23	2:CG:82:PRO:HD3	1.91	0.53
2:CZ:80:ILE:HG23	2:CZ:82:PRO:HD3	1.91	0.53
2:C0:80:ILE:HG23	2:C0:82:PRO:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:48:LEU:HD21	1:AT:103:TRP:CE3	2.44	0.53
1:AI:48:LEU:HD21	1:AI:103:TRP:CE3	2.44	0.53
1:AQ:48:LEU:HD21	1:AQ:103:TRP:CE3	2.44	0.53
1:AU:48:LEU:HD21	1:AU:103:TRP:CE3	2.44	0.53
1:AK:48:LEU:HD21	1:AK:103:TRP:CE3	2.44	0.53
2:CS:226:LEU:CD2	3:DO:126:PRO:HG2	134.57	0.53
2:C2:73:GLN:HA	2:C2:73:GLN:NE2	2.17	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:DL:108:PHE:HA	3:DL:205:LEU:O	2.09	0.53
3:DX:108:PHE:HA	3:DX:205:LEU:O	2.09	0.53
3:DA:108:PHE:HA	3:DA:205:LEU:O	2.09	0.53
2:CN:27:GLN:HG3	2:CN:28:GLY:H	1.73	0.53
2:CK:27:GLN:HG3	2:CK:28:GLY:H	1.73	0.53
3:DB:108:PHE:HA	3:DB:205:LEU:O	2.09	0.53
2:CB:152:TYR:CE1	3:DB:60:PRO:HD3	2.45	0.53
3:DO:108:PHE:HA	3:DO:205:LEU:O	2.09	0.53
1:A1:221:PRO:CA	3:D2:40:PHE:HE2	2.21	0.53
1:AN:219:TYR:OH	3:DN:34:ARG:HD2	2.08	0.53
1:AC:219:TYR:OH	3:DE:34:ARG:HD2	69.19	0.53
2:CU:69:TRP:CZ3	2:CU:124:LEU:CG	2.92	0.53
3:DA:56:ILE:HG13	3:DA:74:PHE:HE1	1.72	0.53
2:CZ:69:TRP:CZ3	2:CZ:124:LEU:CG	2.92	0.53
2:C1:69:TRP:CZ3	2:C1:124:LEU:CG	2.92	0.53
2:CH:69:TRP:HD1	2:CH:70:PRO:N	2.07	0.53
2:CC:69:TRP:CZ3	2:CC:124:LEU:CG	2.92	0.53
2:CC:69:TRP:HD1	2:CC:70:PRO:N	2.07	0.53
2:C9:69:TRP:HD1	2:C9:70:PRO:N	2.07	0.53
2:CJ:69:TRP:HD1	2:CJ:70:PRO:N	2.07	0.53
3:DW:56:ILE:HG13	3:DW:74:PHE:HE1	1.72	0.53
1:A5:184:TYR:HE2	2:C6:139:ALA:CB	2.22	0.53
3:DS:56:ILE:HD13	3:DS:206:VAL:HG11	1.91	0.53
2:CL:124:LEU:HD12	2:CL:163:LEU:HD12	1.92	0.53
2:CB:124:LEU:HD12	2:CB:163:LEU:HD12	1.91	0.53
3:DB:56:ILE:HD13	3:DB:206:VAL:HG11	1.91	0.53
3:DQ:90:VAL:HG11	3:DQ:208:VAL:HG12	1.91	0.53
1:AL:239:PHE:CD1	3:DN:170:TYR:CD2	81.72	0.53
1:A3:104:VAL:HG22	1:A3:197:LEU:HD21	1.90	0.53
1:AN:109:VAL:H	1:AN:161:THR:HB	1.74	0.53
1:AC:109:VAL:HG23	1:AC:161:THR:OG1	2.09	0.53
1:AS:109:VAL:H	1:AS:161:THR:HB	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:109:VAL:HG23	1:AS:161:THR:OG1	2.09	0.53
1:A6:109:VAL:HG23	1:A6:161:THR:OG1	2.09	0.53
3:DG:169:VAL:O	3:DG:169:VAL:HG12	2.09	0.53
2:CD:228:ASN:ND2	3:D9:140:ALA:HB2	139.73	0.53
2:CR:228:ASN:ND2	3:DS:140:ALA:HB2	2.24	0.53
2:CT:228:ASN:ND2	3:EB:140:ALA:HB2	237.76	0.53
2:C8:228:ASN:ND2	3:D4:140:ALA:HB2	2.24	0.53
3:D5:48:LYS:HA	3:D5:210:ALA:HB3	1.90	0.53
2:CU:228:ASN:ND2	3:DV:140:ALA:HB2	2.24	0.53
3:DW:107:ASN:HA	3:DW:154:PHE:O	2.07	0.53
1:BF:55:HIS:O	1:BF:194:SER:CB	2.56	0.53
3:D2:48:LYS:HA	3:D2:210:ALA:HB3	1.90	0.53
3:DX:145:VAL:HG22	3:DX:188:LEU:HD12	1.91	0.52
2:CK:115:ASN:OD1	3:DB:119:LYS:CD	255.48	0.52
2:CM:115:ASN:OD1	3:DD:119:LYS:CD	157.70	0.52
2:C5:115:ASN:OD1	3:DG:119:LYS:CD	2.58	0.52
3:D7:145:VAL:HG22	3:D7:188:LEU:HD12	1.91	0.52
2:CO:115:ASN:OD1	3:DP:119:LYS:CD	2.58	0.52
2:C9:115:ASN:OD1	3:DL:119:LYS:CD	88.88	0.52
2:CN:115:ASN:OD1	3:DE:119:LYS:CD	255.91	0.52
2:CB:115:ASN:OD1	3:DT:119:LYS:CD	255.25	0.52
2:CS:117:SER:OG	2:CS:118:PHE:N	2.41	0.52
3:D0:145:VAL:HG22	3:D0:188:LEU:HD12	1.91	0.52
3:D6:145:VAL:HG22	3:D6:188:LEU:HD12	1.91	0.52
2:CC:49:ASP:CB	3:DD:161:SER:HB3	2.40	0.52
2:CM:49:ASP:CB	3:DN:161:SER:HB3	2.40	0.52
2:CU:49:ASP:CB	3:DV:161:SER:HB3	2.40	0.52
3:DV:101:ARG:HA	3:DV:160:TYR:HE2	1.72	0.52
1:AG:212:ARG:O	1:AG:214:PRO:HD2	2.09	0.52
1:AG:121:LEU:CD2	1:AH:206:GLY:HA3	2.39	0.52
1:AN:121:LEU:CD2	1:AO:206:GLY:HA3	2.39	0.52
1:BB:121:LEU:CD2	1:BC:206:GLY:HA3	2.39	0.52
1:AK:157:SER:CB	3:DK:24:PRO:HA	2.36	0.52
3:DD:42:ASN:HD22	3:DD:44:ILE:N	2.08	0.52
1:A6:118:ALA:HB2	1:A6:132:GLN:NE2	2.23	0.52
1:A7:99:GLU:OE2	1:A7:101:PHE:HE1	1.92	0.52
3:DQ:42:ASN:HD22	3:DQ:44:ILE:N	2.08	0.52
1:AA:186:TRP:O	1:AA:187:LEU:HB3	2.09	0.52
2:CC:80:ILE:HG23	2:CC:82:PRO:HD3	1.91	0.52
2:CK:80:ILE:HG23	2:CK:82:PRO:HD3	1.91	0.52
2:CU:80:ILE:HG23	2:CU:82:PRO:HD3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:80:ILE:HG23	2:C4:82:PRO:HD3	1.91	0.52
2:C2:80:ILE:HG23	2:C2:82:PRO:HD3	1.91	0.52
1:AL:48:LEU:HD21	1:AL:103:TRP:CE3	2.44	0.52
1:AE:48:LEU:HD21	1:AE:103:TRP:CE3	2.44	0.52
1:AR:48:LEU:HD21	1:AR:103:TRP:CE3	2.44	0.52
2:CT:80:ILE:HG23	2:CT:82:PRO:HD3	1.91	0.52
1:BG:48:LEU:HD21	1:BG:103:TRP:CE3	2.44	0.52
1:BI:48:LEU:HD21	1:BI:103:TRP:CE3	2.44	0.52
1:A0:48:LEU:HD21	1:A0:103:TRP:CE3	2.44	0.52
1:AM:48:LEU:HD21	1:AM:103:TRP:CE3	2.44	0.52
1:A7:48:LEU:HD21	1:A7:103:TRP:CE3	2.44	0.52
1:AF:48:LEU:HD21	1:AF:103:TRP:CE3	2.44	0.52
3:DY:108:PHE:HA	3:DY:205:LEU:O	2.09	0.52
2:CA:152:TYR:CE1	3:DA:60:PRO:HD3	2.45	0.52
3:D0:108:PHE:HA	3:D0:205:LEU:O	2.09	0.52
1:BE:184:TYR:HE2	2:CT:139:ALA:CB	215.59	0.52
1:AJ:219:TYR:OH	3:DL:34:ARG:HD2	229.94	0.52
1:AG:165:ARG:HD3	2:CI:182:PRO:HG3	81.68	0.52
1:AM:165:ARG:HD3	2:CO:182:PRO:HG3	81.68	0.52
1:AO:219:TYR:OH	3:DS:34:ARG:HD2	97.51	0.52
2:C4:124:LEU:HD12	2:C4:163:LEU:HD12	1.91	0.52
3:D5:56:ILE:HD13	3:D5:206:VAL:HG11	1.91	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:CE:124:LEU:HD12	2:CE:163:LEU:HD12	1.91	0.52
2:CT:124:LEU:HD12	2:CT:163:LEU:HD12	1.91	0.52
3:DQ:56:ILE:HD13	3:DQ:206:VAL:HG11	1.91	0.52
1:AE:86:ILE:HD12	1:AE:86:ILE:H	1.73	0.52
1:AK:86:ILE:CD1	1:AK:86:ILE:H	2.23	0.52
1:BF:219:TYR:OH	3:EB:34:ARG:HD2	2.08	0.52
2:CI:124:LEU:HD12	2:CI:163:LEU:HD12	1.92	0.52
1:AX:181:LYS:HA	2:CY:137:GLU:HG3	1.89	0.52
3:DB:90:VAL:HG11	3:DB:208:VAL:HG12	1.91	0.52
3:DL:90:VAL:HG11	3:DL:208:VAL:HG12	1.91	0.52
3:DU:90:VAL:HG11	3:DU:208:VAL:HG12	1.91	0.52
3:DY:90:VAL:HG11	3:DY:208:VAL:HG12	1.91	0.52
1:AM:104:VAL:HG22	1:AM:197:LEU:HD21	1.90	0.52
1:AI:109:VAL:H	1:AI:161:THR:HB	1.74	0.52
1:AL:109:VAL:H	1:AL:161:THR:HB	1.74	0.52
1:AJ:109:VAL:H	1:AJ:161:THR:HB	1.74	0.52
1:AC:109:VAL:H	1:AC:161:THR:HB	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:109:VAL:HG23	1:A9:161:THR:OG1	2.09	0.52
1:BH:109:VAL:HG23	1:BH:161:THR:OG1	2.09	0.52
1:AZ:109:VAL:HG23	1:AZ:161:THR:OG1	2.09	0.52
4:FC:25:PHE:CD2	4:FC:26:TYR:CE1	2.98	0.52
3:DC:169:VAL:HG12	3:DC:169:VAL:O	2.09	0.52
3:DM:169:VAL:HG12	3:DM:169:VAL:O	2.09	0.52
2:CW:228:ASN:ND2	3:DX:140:ALA:HB2	2.24	0.52
2:CB:228:ASN:ND2	3:DC:140:ALA:HB2	2.24	0.52
2:CJ:228:ASN:ND2	3:DF:140:ALA:HB2	2.24	0.52
2:CS:228:ASN:ND2	3:DO:140:ALA:HB2	142.11	0.52
1:AP:109:VAL:H	1:AP:161:THR:HB	1.74	0.52
2:CU:228:ASN:ND2	3:EC:140:ALA:HB2	258.36	0.52
1:AP:55:HIS:O	1:AP:194:SER:CB	2.56	0.52
3:D9:145:VAL:HG22	3:D9:188:LEU:HD12	1.91	0.52
2:CJ:115:ASN:OD1	3:DM:119:LYS:CD	227.82	0.52
2:C2:115:ASN:OD1	3:DH:119:LYS:CD	255.48	0.52
2:CQ:115:ASN:OD1	3:DY:119:LYS:CD	109.98	0.52
2:CG:115:ASN:OD1	3:EB:119:LYS:CD	2.58	0.52
3:DW:145:VAL:HG22	3:DW:188:LEU:HD12	1.91	0.52
2:C6:117:SER:OG	2:C6:118:PHE:N	2.41	0.52
2:CE:115:ASN:OD1	3:DC:119:LYS:CD	152.76	0.52
2:CG:49:ASP:CB	3:DH:161:SER:HB3	2.40	0.52
3:DJ:100:TYR:CZ	3:DJ:167:MET:HB2	2.45	0.52
3:DL:100:TYR:CZ	3:DL:167:MET:HB2	2.45	0.52
2:CN:49:ASP:CB	3:DO:161:SER:HB3	2.40	0.52
1:AA:121:LEU:CD2	1:AB:206:GLY:HA3	2.39	0.52
1:AB:212:ARG:HG2	1:AB:214:PRO:HD3	1.91	0.52
1:AC:212:ARG:HG2	1:AC:214:PRO:HD3	1.91	0.52
1:AD:212:ARG:O	1:AD:214:PRO:HD2	2.09	0.52
1:AI:212:ARG:HG2	1:AI:214:PRO:HD3	1.91	0.52
1:AK:212:ARG:HG2	1:AK:214:PRO:HD3	1.91	0.52
1:AM:212:ARG:O	1:AM:214:PRO:HD2	2.09	0.52
1:AO:212:ARG:O	1:AO:214:PRO:HD2	2.09	0.52
1:AQ:99:GLU:OE2	1:AQ:101:PHE:HE1	1.92	0.52
1:AP:206:GLY:HA3	1:AS:121:LEU:CD2	2.39	0.52
1:AV:99:GLU:OE2	1:AV:101:PHE:HE1	1.92	0.52
1:BA:212:ARG:O	1:BA:214:PRO:HD2	2.09	0.52
3:DC:42:ASN:HD22	3:DC:44:ILE:N	2.07	0.52
3:DM:42:ASN:HD22	3:DM:44:ILE:N	2.08	0.52
3:DR:42:ASN:HD22	3:DR:44:ILE:N	2.08	0.52
3:DK:42:ASN:HD22	3:DK:44:ILE:N	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DE:42:ASN:HD22	3:DE:44:ILE:N	2.08	0.52
1:AU:99:GLU:OE2	1:AU:101:PHE:HE1	1.92	0.52
1:BH:212:ARG:O	1:BH:214:PRO:HD2	2.09	0.52
1:A4:212:ARG:O	1:A4:214:PRO:HD2	2.09	0.52
1:A4:99:GLU:OE2	1:A4:101:PHE:HE1	1.92	0.52
1:A1:37:PHE:HA	1:A1:211:TYR:O	2.10	0.52
1:A2:186:TRP:O	1:A2:187:LEU:HB3	2.09	0.52
1:AG:184:TYR:HE2	2:CI:139:ALA:CB	105.56	0.52
1:AO:184:TYR:HE2	2:CO:139:ALA:CB	2.23	0.52
2:CA:80:ILE:HG23	2:CA:82:PRO:HD3	1.91	0.52
2:CE:80:ILE:HG23	2:CE:82:PRO:HD3	1.91	0.52
1:AB:184:TYR:HE2	2:CD:139:ALA:CB	105.56	0.52
1:AF:181:LYS:HA	2:CF:137:GLU:HG3	1.89	0.52
1:AF:184:TYR:HE2	2:CH:139:ALA:CB	105.56	0.52
2:CJ:80:ILE:HG23	2:CJ:82:PRO:HD3	1.91	0.52
1:AL:184:TYR:HE2	2:CN:139:ALA:CB	105.56	0.52
1:BF:48:LEU:HD21	1:BF:103:TRP:CE3	2.44	0.52
1:AC:48:LEU:HD21	1:AC:103:TRP:CE3	2.44	0.52
2:CX:80:ILE:HG23	2:CX:82:PRO:HD3	1.91	0.52
1:AO:48:LEU:HD21	1:AO:103:TRP:CE3	2.44	0.52
1:A1:48:LEU:HD21	1:A1:103:TRP:CE3	2.44	0.52
1:BH:48:LEU:HD21	1:BH:103:TRP:CE3	2.44	0.52
2:CP:80:ILE:HG23	2:CP:82:PRO:HD3	1.91	0.52
1:AY:103:TRP:HB2	1:AY:198:THR:HG22	1.89	0.52
1:AU:115:THR:OG1	1:AU:133:LEU:HB2	2.08	0.52
2:CP:152:TYR:CE1	3:DP:60:PRO:HD3	2.45	0.52
2:CQ:153:GLN:NE2	3:DQ:55:SER:N	2.58	0.52
2:CQ:152:TYR:CE1	3:DQ:60:PRO:HD3	2.45	0.52
2:CH:153:GLN:NE2	3:DH:55:SER:N	2.58	0.52
2:CT:153:GLN:NE2	3:EA:55:SER:N	188.43	0.52
2:CL:152:TYR:CE1	3:DL:60:PRO:HD3	2.44	0.52
3:EE:108:PHE:HA	3:EE:205:LEU:O	2.09	0.52
2:CG:153:GLN:NE2	3:DG:55:SER:N	2.58	0.52
2:CE:153:GLN:NE2	3:DE:55:SER:N	2.58	0.52
2:CE:152:TYR:CE1	3:DE:60:PRO:HD3	2.45	0.52
2:CZ:226:LEU:CD2	3:D0:126:PRO:HG2	2.36	0.52
3:DZ:108:PHE:HA	3:DZ:205:LEU:O	2.09	0.52
2:C4:153:GLN:NE2	3:D4:55:SER:N	2.58	0.52
2:CS:153:GLN:NE2	3:DS:55:SER:N	2.58	0.52
2:C0:27:GLN:HG3	2:C0:28:GLY:H	1.73	0.52
1:AB:219:TYR:OH	3:DD:34:ARG:HD2	69.19	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:AC:165:ARG:HD3	2:CE:182:PRO:HG3	81.68	0.52
1:AM:219:TYR:OH	3:DO:34:ARG:HD2	69.19	0.52
2:CR:124:LEU:HD12	2:CR:163:LEU:HD12	1.91	0.52
3:DR:56:ILE:HG13	3:DR:74:PHE:HE1	1.72	0.52
3:D5:56:ILE:HG13	3:D5:74:PHE:HE1	1.72	0.52
2:C8:124:LEU:HD12	2:C8:163:LEU:HD12	1.91	0.52
2:C1:124:LEU:HD12	2:C1:163:LEU:HD12	1.91	0.52
2:C0:124:LEU:HD12	2:C0:163:LEU:HD12	1.92	0.52
3:D9:56:ILE:HD13	3:D9:206:VAL:HG11	1.91	0.52
1:BF:184:TYR:HE2	2:CU:139:ALA:CB	264.05	0.52
2:CQ:124:LEU:HD12	2:CQ:163:LEU:HD12	1.92	0.52
1:A1:86:ILE:CD1	1:A1:86:ILE:H	2.22	0.52
2:CS:124:LEU:HD12	2:CS:163:LEU:HD12	1.91	0.52
1:AM:86:ILE:CD1	1:AM:86:ILE:H	2.23	0.52
3:DE:90:VAL:HG11	3:DE:208:VAL:HG12	1.91	0.52
3:DF:90:VAL:HG11	3:DF:208:VAL:HG12	1.91	0.52
3:EB:90:VAL:HG11	3:EB:208:VAL:HG12	1.91	0.52
1:AA:104:VAL:HG22	1:AA:197:LEU:HD21	1.90	0.52
1:AH:109:VAL:H	1:AH:161:THR:HB	1.74	0.52
1:AO:108:PRO:HA	1:AO:161:THR:HG21	1.92	0.52
1:AM:109:VAL:H	1:AM:161:THR:HB	1.74	0.52
1:AK:109:VAL:HG23	1:AK:161:THR:OG1	2.09	0.52
1:BB:108:PRO:HA	1:BB:161:THR:HG21	1.92	0.52
1:A5:109:VAL:HG23	1:A5:161:THR:OG1	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
3:DD:169:VAL:HG12	3:DD:169:VAL:O	2.09	0.52
3:DQ:169:VAL:HG12	3:DQ:169:VAL:O	2.09	0.52
2:CS:228:ASN:ND2	3:DT:140:ALA:HB2	2.24	0.52
2:C5:228:ASN:ND2	3:D6:140:ALA:HB2	2.24	0.52
1:A1:109:VAL:H	1:A1:161:THR:HB	1.74	0.52
3:EA:48:LYS:HA	3:EA:210:ALA:HB3	1.90	0.52
1:A7:109:VAL:HG23	1:A7:161:THR:OG1	2.09	0.52
1:AQ:55:HIS:O	1:AQ:194:SER:CB	2.56	0.52
2:CC:115:ASN:OD1	3:ED:119:LYS:CD	245.14	0.52
2:CW:115:ASN:OD1	3:DJ:119:LYS:CD	2.58	0.52
2:CH:115:ASN:OD1	3:DN:119:LYS:CD	255.25	0.52
3:DN:145:VAL:HG22	3:DN:188:LEU:HD12	1.91	0.52
2:CI:115:ASN:OD1	3:DX:119:LYS:CD	2.58	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:CL:115:ASN:OD1	3:DK:119:LYS:CD	112.00	0.52
2:C5:24:ILE:HG23	3:DG:145:VAL:HB	1.92	0.52
2:CD:115:ASN:OD1	3:D4:119:LYS:CD	146.18	0.52
2:C1:24:ILE:HG23	3:DO:145:VAL:HB	1.92	0.52
2:CG:24:ILE:HG23	3:D3:145:VAL:HB	242.12	0.52
2:CE:115:ASN:OD1	3:DF:119:LYS:CD	2.58	0.52
2:CD:49:ASP:CB	3:D9:161:SER:HB3	147.64	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:CO:49:ASP:CB	3:DP:161:SER:HB3	33.99	0.52
3:DB:100:TYR:CZ	3:DB:167:MET:HB2	2.45	0.52
3:DC:100:TYR:CZ	3:DC:167:MET:HB2	2.45	0.52
3:DE:100:TYR:CZ	3:DE:167:MET:HB2	2.45	0.52
3:DF:100:TYR:CZ	3:DF:167:MET:HB2	2.45	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
2:CN:49:ASP:CB	3:DJ:161:SER:HB3	229.58	0.52
3:DQ:100:TYR:CZ	3:DQ:167:MET:HB2	2.45	0.52
3:DX:100:TYR:CZ	3:DX:167:MET:HB2	2.45	0.52
2:CV:49:ASP:CB	3:DW:161:SER:HB3	2.40	0.52
3:D1:100:TYR:CZ	3:D1:167:MET:HB2	2.45	0.52
3:DR:100:TYR:CZ	3:DR:167:MET:HB2	2.45	0.52
3:D2:100:TYR:CZ	3:D2:167:MET:HB2	2.45	0.52
1:A8:99:GLU:OE2	1:A8:101:PHE:HE1	1.92	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:AP:212:ARG:HG2	1:AP:214:PRO:HD3	1.91	0.52
1:AO:121:LEU:CD2	1:AS:206:GLY:HA3	121.90	0.52
1:AX:212:ARG:O	1:AX:214:PRO:HD2	2.09	0.52
1:BF:99:GLU:OE2	1:BF:101:PHE:HE1	1.92	0.52
1:AK:157:SER:CB	3:DM:24:PRO:HA	39.10	0.52
3:DV:15:MET:HB3	3:DV:18:VAL:HG13	1.90	0.52
3:DY:42:ASN:HD22	3:DY:44:ILE:N	2.08	0.52
1:AY:212:ARG:HG2	1:AY:214:PRO:HD3	1.91	0.52
1:AI:186:TRP:O	1:AI:187:LEU:HB3	2.09	0.52
1:AY:186:TRP:O	1:AY:187:LEU:HB3	2.09	0.52
1:A3:186:TRP:O	1:A3:187:LEU:HB3	2.09	0.52
1:A1:186:TRP:O	1:A1:187:LEU:HB3	2.09	0.52
1:AX:186:TRP:O	1:AX:187:LEU:HB3	2.09	0.52
2:C1:80:ILE:HG23	2:C1:82:PRO:HD3	1.91	0.52
1:AK:184:TYR:HE2	2:CM:139:ALA:CB	105.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:184:TYR:HE2	2:CO:139:ALA:CB	105.55	0.52
1:BD:184:TYR:HE2	2:CS:139:ALA:CB	164.76	0.52
1:AB:181:LYS:HA	2:CB:137:GLU:HG3	1.89	0.52
2:C8:80:ILE:HG23	2:C8:82:PRO:HD3	1.91	0.52
1:BD:48:LEU:HD21	1:BD:103:TRP:CE3	2.44	0.52
1:A6:103:TRP:HB2	1:A6:198:THR:HG22	1.89	0.52
1:A2:48:LEU:HD21	1:A2:103:TRP:CE3	2.44	0.52
1:AW:115:THR:OG1	1:AW:133:LEU:HB2	2.08	0.52
2:CB:73:GLN:NE2	2:CB:73:GLN:HA	2.17	0.52
2:CM:152:TYR:CE1	3:DM:60:PRO:HD3	2.45	0.52
2:CV:153:GLN:NE2	3:DV:55:SER:N	2.58	0.52
3:EC:108:PHE:HA	3:EC:205:LEU:O	2.09	0.52
2:CJ:153:GLN:NE2	3:DJ:55:SER:N	2.58	0.52
2:CT:152:TYR:CE1	3:EA:60:PRO:HD3	198.22	0.52
1:AG:76:THR:O	1:AG:169:VAL:HG23	2.10	0.52
1:AO:76:THR:O	1:AO:169:VAL:HG23	2.10	0.52
3:D9:108:PHE:HA	3:D9:205:LEU:O	2.09	0.52
2:CA:153:GLN:NE2	3:DA:55:SER:N	2.58	0.52
2:C5:153:GLN:NE2	3:D5:55:SER:N	2.58	0.52
2:CZ:152:TYR:CE1	3:DZ:60:PRO:HD3	2.45	0.52
1:AH:76:THR:O	1:AH:169:VAL:HG23	2.10	0.52
1:AL:76:THR:O	1:AL:169:VAL:HG23	2.10	0.52
2:CB:153:GLN:NE2	3:DB:55:SER:N	2.58	0.52
2:CO:153:GLN:NE2	3:DO:55:SER:N	2.58	0.52
2:CC:152:TYR:CE1	3:DC:60:PRO:HD3	2.45	0.52
3:D7:108:PHE:HA	3:D7:205:LEU:O	2.09	0.52
2:CD:153:GLN:NE2	3:DD:55:SER:N	2.58	0.52
2:C6:153:GLN:NE2	3:D6:55:SER:N	2.58	0.52
1:AV:76:THR:O	1:AV:169:VAL:HG23	2.10	0.52
1:BA:76:THR:O	1:BA:169:VAL:HG23	2.10	0.52
2:C0:153:GLN:NE2	3:D0:55:SER:N	2.58	0.52
1:AT:76:THR:O	1:AT:169:VAL:HG23	2.10	0.52
1:AA:165:ARG:HD3	2:CC:182:PRO:HG3	81.68	0.52
2:CG:69:TRP:CZ3	2:CG:124:LEU:CG	2.92	0.52
1:BC:219:TYR:OH	3:DR:34:ARG:HD2	137.13	0.52
2:CA:124:LEU:HD12	2:CA:163:LEU:HD12	1.92	0.52
3:DZ:56:ILE:HD13	3:DZ:206:VAL:HG11	1.91	0.52
2:C4:69:TRP:CZ3	2:C4:124:LEU:CG	2.92	0.52
3:D4:56:ILE:HD13	3:D4:206:VAL:HG11	1.91	0.52
2:C8:69:TRP:CZ3	2:C8:124:LEU:CG	2.92	0.52
2:C1:69:TRP:HD1	2:C1:70:PRO:N	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A8:184:TYR:HE2	2:C9:139:ALA:CB	2.22	0.52
2:C9:69:TRP:CZ3	2:C9:124:LEU:CG	2.92	0.52
2:CY:69:TRP:CZ3	2:CY:124:LEU:CG	2.92	0.52
2:CQ:69:TRP:CZ3	2:CQ:124:LEU:CG	2.92	0.52
3:DM:56:ILE:HD13	3:DM:206:VAL:HG11	1.91	0.52
1:AL:86:ILE:CD1	1:AL:86:ILE:H	2.23	0.52
3:DD:56:ILE:HD13	3:DD:206:VAL:HG11	1.91	0.52
1:AZ:184:TYR:HE2	2:C0:139:ALA:CB	2.23	0.52
1:A8:86:ILE:H	1:A8:86:ILE:CD1	2.23	0.52
1:AP:86:ILE:H	1:AP:86:ILE:CD1	2.23	0.52
3:D4:90:VAL:HG11	3:D4:208:VAL:HG12	1.91	0.52
3:D3:90:VAL:HG11	3:D3:208:VAL:HG12	1.91	0.52
1:BE:239:PHE:CD1	3:EA:170:TYR:CD2	2.96	0.52
1:AA:239:PHE:CD1	3:DC:170:TYR:CD2	81.72	0.52
1:AT:239:PHE:CD1	3:DU:170:TYR:CD2	2.96	0.52
1:A5:104:VAL:HG22	1:A5:197:LEU:HD21	1.90	0.52
1:AU:104:VAL:HG22	1:AU:197:LEU:HD21	1.90	0.52
1:AQ:239:PHE:CD1	3:DQ:170:TYR:CD2	2.96	0.52
1:A0:239:PHE:CD1	3:D1:170:TYR:CD2	2.96	0.52
1:AG:109:VAL:H	1:AG:161:THR:HB	1.74	0.52
1:AA:109:VAL:H	1:AA:161:THR:HB	1.75	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:BG:109:VAL:H	1:BG:161:THR:HB	1.74	0.52
1:AZ:108:PRO:HA	1:AZ:161:THR:HG21	1.92	0.52
1:A6:109:VAL:H	1:A6:161:THR:HB	1.74	0.52
4:FX:25:PHE:CD2	4:FX:26:TYR:CE1	2.98	0.52
4:FJ:25:PHE:CD2	4:FJ:26:TYR:CE1	2.98	0.52
4:F2:25:PHE:CD2	4:F2:26:TYR:CE1	2.98	0.52
4:FW:25:PHE:CD2	4:FW:26:TYR:CE1	2.98	0.52
3:D6:169:VAL:O	3:D6:169:VAL:HG12	2.09	0.52
3:ED:169:VAL:HG12	3:ED:169:VAL:O	2.09	0.52
3:D7:169:VAL:O	3:D7:169:VAL:HG12	2.09	0.52
3:EC:169:VAL:O	3:EC:169:VAL:HG12	2.09	0.52
2:CX:228:ASN:ND2	3:EA:140:ALA:HB2	139.73	0.52
1:BH:55:HIS:O	1:BH:194:SER:CB	2.57	0.52
3:EE:48:LYS:HA	3:EE:210:ALA:HB3	1.90	0.52
1:AS:55:HIS:O	1:AS:194:SER:CB	2.57	0.52
1:BC:55:HIS:O	1:BC:194:SER:CB	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:24:ILE:HG23	3:D9:145:VAL:HB	1.92	0.52
2:CR:115:ASN:OD1	3:DI:119:LYS:CD	157.69	0.52
2:CR:115:ASN:OD1	3:EE:119:LYS:CD	2.58	0.52
2:CM:115:ASN:OD1	3:DI:119:LYS:CD	255.25	0.52
2:CM:24:ILE:HG23	3:DI:145:VAL:HB	242.29	0.52
2:CU:24:ILE:HG23	3:D5:145:VAL:HB	242.12	0.52
2:CU:115:ASN:OD1	3:D5:119:LYS:CD	255.48	0.52
2:C1:115:ASN:OD1	3:DO:119:LYS:CD	2.58	0.52
2:CX:115:ASN:OD1	3:DO:119:LYS:CD	212.13	0.52
2:CF:115:ASN:OD1	3:DV:119:LYS:CD	179.95	0.52
2:CI:49:ASP:CB	3:DJ:161:SER:HB3	2.40	0.52
3:DA:100:TYR:CZ	3:DA:167:MET:HB2	2.45	0.52
3:DD:100:TYR:CZ	3:DD:167:MET:HB2	2.45	0.52
3:DT:100:TYR:CZ	3:DT:167:MET:HB2	2.45	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
2:CV:49:ASP:CB	3:ED:161:SER:HB3	233.33	0.52
2:CQ:49:ASP:CB	3:DR:161:SER:HB3	2.40	0.52
2:C7:49:ASP:CB	3:D8:161:SER:HB3	2.40	0.52
3:D8:100:TYR:CZ	3:D8:167:MET:HB2	2.45	0.52
2:C1:49:ASP:CB	3:D2:161:SER:HB3	2.40	0.52
1:A9:212:ARG:O	1:A9:214:PRO:HD2	2.09	0.52
1:AF:37:PHE:HA	1:AF:211:TYR:O	2.10	0.52
1:AM:37:PHE:HA	1:AM:211:TYR:O	2.10	0.52
1:AN:37:PHE:HA	1:AN:211:TYR:O	2.10	0.52
1:AT:37:PHE:HA	1:AT:211:TYR:O	2.10	0.52
1:AX:99:GLU:OE2	1:AX:101:PHE:HE1	1.92	0.52
1:BA:121:LEU:CD2	1:BB:206:GLY:HA3	2.39	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
3:DO:42:ASN:HD22	3:DO:44:ILE:N	2.08	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
1:A3:37:PHE:HA	1:A3:211:TYR:O	2.10	0.52
1:A7:37:PHE:HA	1:A7:211:TYR:O	2.10	0.52
1:AV:37:PHE:HA	1:AV:211:TYR:O	2.10	0.52
1:BG:99:GLU:OE2	1:BG:101:PHE:HE1	1.92	0.52
1:A5:157:SER:CB	3:D6:24:PRO:HA	2.36	0.52
1:AZ:99:GLU:OE2	1:AZ:101:PHE:HE1	1.92	0.52
1:AE:186:TRP:O	1:AE:187:LEU:HB3	2.09	0.52
1:A6:212:ARG:O	1:A6:214:PRO:HD2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:184:TYR:HE2	2:CE:139:ALA:CB	105.56	0.52
1:AE:184:TYR:HE2	2:CG:139:ALA:CB	135.16	0.52
1:AH:184:TYR:HE2	2:CJ:139:ALA:CB	105.56	0.52
1:AN:184:TYR:HE2	2:CN:139:ALA:CB	2.23	0.52
2:CD:80:ILE:HG23	2:CD:82:PRO:HD3	1.91	0.52
1:AF:184:TYR:HE2	2:CF:139:ALA:CB	2.23	0.52
2:CL:80:ILE:HG23	2:CL:82:PRO:HD3	1.91	0.52
2:CQ:80:ILE:HG23	2:CQ:82:PRO:HD3	1.92	0.52
2:CR:80:ILE:HG23	2:CR:82:PRO:HD3	1.91	0.52
1:BI:184:TYR:HE2	2:CX:139:ALA:CB	174.54	0.52
1:AR:48:LEU:O	1:AR:131:GLN:NE2	2.43	0.52
1:AZ:48:LEU:HD21	1:AZ:103:TRP:CE3	2.44	0.52
1:A5:48:LEU:HD21	1:A5:103:TRP:CE3	2.44	0.52
1:AP:184:TYR:HE2	2:CP:139:ALA:CB	2.23	0.52
1:BA:184:TYR:HE2	2:CP:139:ALA:CB	109.21	0.52
1:AS:48:LEU:HD21	1:AS:103:TRP:CE3	2.44	0.52
2:CT:226:LEU:CD2	3:EB:126:PRO:HG2	221.01	0.52
2:CM:153:GLN:NE2	3:DM:55:SER:N	2.58	0.52
2:CY:153:GLN:NE2	3:DY:55:SER:N	2.58	0.52
2:CI:152:TYR:CE1	3:DI:60:PRO:HD3	2.45	0.52
3:DH:108:PHE:HA	3:DH:205:LEU:O	2.09	0.52
3:DJ:108:PHE:HA	3:DJ:205:LEU:O	2.09	0.52
2:CX:152:TYR:CE1	3:EE:60:PRO:HD3	186.54	0.52
3:DR:108:PHE:HA	3:DR:205:LEU:O	2.09	0.52
2:CW:152:TYR:CE1	3:ED:60:PRO:HD3	254.15	0.52
2:CI:27:GLN:HG3	2:CI:28:GLY:H	1.73	0.52
2:CS:152:TYR:CE1	3:DS:60:PRO:HD3	2.45	0.52
3:D1:108:PHE:HA	3:D1:205:LEU:O	2.09	0.52
1:A5:30:VAL:HG13	1:A5:218:MET:HE2	1.92	0.52
2:CD:152:TYR:CE1	3:DD:60:PRO:HD3	2.45	0.52
1:A7:76:THR:O	1:A7:169:VAL:HG23	2.10	0.52
2:C2:153:GLN:NE2	3:D2:55:SER:N	2.58	0.52
1:A0:219:TYR:OH	3:D1:34:ARG:HD2	2.08	0.52
1:BC:165:ARG:HD3	2:CR:182:PRO:HG3	140.21	0.52
2:CF:69:TRP:CZ3	2:CF:124:LEU:CG	2.92	0.52
2:C8:69:TRP:HD1	2:C8:70:PRO:N	2.07	0.52
2:C2:124:LEU:HD12	2:C2:163:LEU:HD12	1.92	0.52
2:CJ:124:LEU:HD12	2:CJ:163:LEU:HD12	1.92	0.52
2:CY:124:LEU:HD12	2:CY:163:LEU:HD12	1.92	0.52
3:DJ:56:ILE:HD13	3:DJ:206:VAL:HG11	1.91	0.52
1:AE:86:ILE:CD1	1:AE:86:ILE:H	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:124:LEU:HD12	2:CX:163:LEU:HD12	1.91	0.52
1:A4:86:ILE:H	1:A4:86:ILE:HD12	1.73	0.52
1:BG:86:ILE:CD1	1:BG:86:ILE:H	2.23	0.52
1:AU:86:ILE:HD12	1:AU:86:ILE:H	1.73	0.52
1:AY:184:TYR:HE2	2:CZ:139:ALA:CB	2.23	0.52
3:DP:90:VAL:HG11	3:DP:208:VAL:HG12	1.91	0.52
1:AK:239:PHE:CD1	3:DM:170:TYR:CD2	81.72	0.52
1:AN:239:PHE:CD1	3:DN:170:TYR:CD2	2.96	0.52
1:AV:104:VAL:HG22	1:AV:197:LEU:HD21	1.90	0.52
1:AQ:104:VAL:HG22	1:AQ:197:LEU:HD21	1.90	0.52
1:AB:108:PRO:HA	1:AB:161:THR:HG21	1.92	0.52
1:BD:108:PRO:HA	1:BD:161:THR:HG21	1.92	0.52
1:BA:109:VAL:H	1:BA:161:THR:HB	1.74	0.52
1:AE:108:PRO:HA	1:AE:161:THR:HG21	1.92	0.52
1:AJ:109:VAL:HG23	1:AJ:161:THR:OG1	2.09	0.52
1:AK:108:PRO:HA	1:AK:161:THR:HG21	1.92	0.52
1:AT:110:GLY:H	1:AU:242:ASN:HB2	1.75	0.52
1:A5:108:PRO:HA	1:A5:161:THR:HG21	1.92	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
4:F8:25:PHE:CD2	4:F8:26:TYR:CE1	2.98	0.52
4:F5:25:PHE:CD2	4:F5:26:TYR:CE1	2.98	0.52
3:D9:169:VAL:HG12	3:D9:169:VAL:O	2.09	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:C4:228:ASN:ND2	3:D5:140:ALA:HB2	2.24	0.52
1:AR:108:PRO:HA	1:AR:161:THR:HG21	1.92	0.52
1:AY:118:ALA:HB2	1:AY:132:GLN:NE2	2.23	0.52
1:A0:109:VAL:HG23	1:A0:161:THR:OG1	2.09	0.52
2:CY:228:ASN:ND2	3:DU:140:ALA:HB2	2.24	0.52
1:AX:55:HIS:O	1:AX:194:SER:CB	2.56	0.52
2:CV:115:ASN:OD1	3:DB:119:LYS:CD	2.58	0.52
2:C7:115:ASN:OD1	3:DM:119:LYS:CD	150.75	0.52
2:CT:115:ASN:OD1	3:DH:119:LYS:CD	223.94	0.52
2:C0:115:ASN:OD1	3:DQ:119:LYS:CD	2.58	0.52
2:CA:115:ASN:OD1	3:DL:119:LYS:CD	255.48	0.52
2:CN:115:ASN:OD1	3:D2:119:LYS:CD	2.57	0.52
2:CN:24:ILE:HG23	3:DE:145:VAL:HB	241.89	0.52
2:C3:24:ILE:HG23	3:DU:145:VAL:HB	1.92	0.52
2:CS:115:ASN:OD1	3:DC:119:LYS:CD	255.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CP:24:ILE:HG23	3:D0:145:VAL:HB	80.63	0.52
2:CB:49:ASP:CB	3:DC:161:SER:HB3	2.40	0.52
2:CH:49:ASP:CB	3:DI:161:SER:HB3	2.40	0.52
2:CS:49:ASP:CB	3:DO:161:SER:HB3	121.36	0.52
2:CF:49:ASP:CB	3:DG:161:SER:HB3	2.40	0.52
3:DH:100:TYR:CZ	3:DH:167:MET:HB2	2.45	0.52
3:DN:100:TYR:CZ	3:DN:167:MET:HB2	2.45	0.52
3:D4:100:TYR:CZ	3:D4:167:MET:HB2	2.45	0.52
3:ED:100:TYR:CZ	3:ED:167:MET:HB2	2.45	0.52
2:CZ:49:ASP:CB	3:D0:161:SER:HB3	2.40	0.52
2:C5:49:ASP:CB	3:D6:161:SER:HB3	2.40	0.52
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:AA:206:GLY:HA3	1:AE:121:LEU:CD2	2.39	0.52
1:AE:37:PHE:HA	1:AE:211:TYR:O	2.10	0.52
1:AF:206:GLY:HA3	1:AJ:121:LEU:CD2	2.39	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:AN:212:ARG:O	1:AN:214:PRO:HD2	2.09	0.52
1:AO:206:GLY:HA3	1:AR:121:LEU:CD2	138.40	0.52
1:AW:37:PHE:HA	1:AW:211:TYR:O	2.10	0.52
1:BB:99:GLU:OE2	1:BB:101:PHE:HE1	1.92	0.52
3:DQ:15:MET:HB3	3:DQ:18:VAL:HG13	1.90	0.52
1:A7:212:ARG:O	1:A7:214:PRO:HD2	2.09	0.52
1:A5:212:ARG:O	1:A5:214:PRO:HD2	2.09	0.52
1:BA:186:TRP:O	1:BA:187:LEU:HB3	2.09	0.52
1:AE:184:TYR:HE2	2:CE:139:ALA:CB	2.23	0.52
1:AG:184:TYR:HE2	2:CG:139:ALA:CB	2.23	0.52
1:A3:184:TYR:HE2	2:C4:139:ALA:CB	2.23	0.52
1:AB:48:LEU:O	1:AB:131:GLN:NE2	2.43	0.52
1:AG:48:LEU:HD21	1:AG:103:TRP:CE3	2.44	0.52
1:BE:48:LEU:O	1:BE:131:GLN:NE2	2.43	0.52
1:AD:48:LEU:O	1:AD:131:GLN:NE2	2.43	0.52
1:AW:184:TYR:HE2	2:CX:139:ALA:CB	2.23	0.52
1:AE:48:LEU:O	1:AE:131:GLN:NE2	2.43	0.52
1:AJ:48:LEU:O	1:AJ:131:GLN:NE2	2.43	0.52
1:AX:48:LEU:O	1:AX:131:GLN:NE2	2.43	0.52
1:AW:48:LEU:HD21	1:AW:103:TRP:CE3	2.44	0.52
1:AF:48:LEU:O	1:AF:131:GLN:NE2	2.43	0.52
1:BB:48:LEU:HD21	1:BB:103:TRP:CE3	2.44	0.52
2:CP:153:GLN:NE2	3:DP:55:SER:N	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:152:TYR:CE1	3:DV:60:PRO:HD3	2.44	0.52
2:CU:153:GLN:NE2	3:DU:55:SER:N	2.58	0.52
2:CU:153:GLN:NE2	3:EB:55:SER:N	246.99	0.52
2:CU:152:TYR:CE1	3:EB:60:PRO:HD3	252.57	0.52
2:CT:152:TYR:CE1	3:DT:60:PRO:HD3	2.45	0.52
2:CL:153:GLN:NE2	3:DL:55:SER:N	2.58	0.52
2:CX:153:GLN:NE2	3:EE:55:SER:N	192.32	0.52
2:C3:153:GLN:NE2	3:D3:55:SER:N	2.58	0.52
2:CR:153:GLN:NE2	3:DR:55:SER:N	2.58	0.52
2:C9:153:GLN:NE2	3:D9:55:SER:N	2.58	0.52
2:C5:152:TYR:CE1	3:D5:60:PRO:HD3	2.45	0.52
2:CZ:153:GLN:NE2	3:DZ:55:SER:N	2.58	0.52
1:AB:76:THR:O	1:AB:169:VAL:HG23	2.10	0.52
1:AD:76:THR:O	1:AD:169:VAL:HG23	2.10	0.52
1:AJ:76:THR:O	1:AJ:169:VAL:HG23	2.10	0.52
1:AN:76:THR:O	1:AN:169:VAL:HG23	2.10	0.52
2:CO:152:TYR:CE1	3:DO:60:PRO:HD3	2.45	0.52
2:CC:153:GLN:NE2	3:DC:55:SER:N	2.58	0.52
1:BB:76:THR:O	1:BB:169:VAL:HG23	2.10	0.52
3:DB:31:VAL:HG12	4:FB:35:ASP:HA	1.92	0.52
3:DL:31:VAL:HG12	4:FL:35:ASP:HA	1.92	0.52
1:AB:165:ARG:HD3	2:CB:182:PRO:HG3	1.90	0.52
3:EB:31:VAL:HB	4:FU:34:ILE:O	217.92	0.52
1:A9:165:ARG:HD3	2:CA:182:PRO:HG3	226.71	0.52
1:AA:219:TYR:OH	3:DC:34:ARG:HD2	69.19	0.52
2:CP:124:LEU:HD12	2:CP:163:LEU:HD12	1.92	0.52
3:DU:56:ILE:HD13	3:DU:206:VAL:HG11	1.91	0.52
3:D8:31:VAL:HG12	4:F8:35:ASP:HA	1.92	0.52
2:CZ:124:LEU:HD12	2:CZ:163:LEU:HD12	1.91	0.52
2:C5:69:TRP:CZ3	2:C5:124:LEU:CG	2.92	0.52
3:D1:56:ILE:HG13	3:D1:74:PHE:HE1	1.72	0.52
3:D6:56:ILE:HD13	3:D6:206:VAL:HG11	1.91	0.52
1:AT:184:TYR:HE2	2:CU:139:ALA:CB	2.22	0.52
2:CW:124:LEU:HD12	2:CW:163:LEU:HD12	1.92	0.52
1:AH:86:ILE:H	1:AH:86:ILE:CD1	2.23	0.52
2:CM:124:LEU:HD12	2:CM:163:LEU:HD12	1.92	0.52
1:BF:86:ILE:HD12	1:BF:86:ILE:H	1.73	0.52
2:CX:69:TRP:HD1	2:CX:70:PRO:N	2.07	0.52
2:CN:124:LEU:HD12	2:CN:163:LEU:HD12	1.92	0.52
1:AR:86:ILE:H	1:AR:86:ILE:CD1	2.23	0.52
1:A3:76:THR:O	1:A3:169:VAL:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:239:PHE:CD1	3:DX:170:TYR:CD2	2.96	0.52
1:AV:109:VAL:HG23	1:AV:161:THR:OG1	2.09	0.52
1:AG:108:PRO:HA	1:AG:161:THR:HG21	1.92	0.52
1:AC:242:ASN:HB2	1:AG:110:GLY:H	195.55	0.52
1:AP:110:GLY:H	1:AQ:242:ASN:HB2	1.75	0.52
1:AA:108:PRO:HA	1:AA:161:THR:HG21	1.92	0.52
1:AD:108:PRO:HA	1:AD:161:THR:HG21	1.92	0.52
1:A8:108:PRO:HA	1:A8:161:THR:HG21	1.92	0.52
1:AT:109:VAL:HG23	1:AT:161:THR:OG1	2.09	0.52
1:A2:108:PRO:HA	1:A2:161:THR:HG21	1.92	0.52
1:BF:108:PRO:HA	1:BF:161:THR:HG21	1.92	0.52
4:FD:25:PHE:CD2	4:FD:26:TYR:CE1	2.98	0.52
2:CO:228:ASN:ND2	3:DK:140:ALA:HB2	2.24	0.52
2:CQ:228:ASN:ND2	3:DR:140:ALA:HB2	2.24	0.52
1:A1:108:PRO:HA	1:A1:161:THR:HG21	1.92	0.52
1:A0:109:VAL:H	1:A0:161:THR:HB	1.74	0.52
1:A0:108:PRO:HA	1:A0:161:THR:HG21	1.92	0.52
2:CC:87:LYS:HG3	2:CC:142:TRP:CD2	2.45	0.52
3:D6:48:LYS:HA	3:D6:210:ALA:HB3	1.90	0.52
2:CY:87:LYS:HG3	2:CY:142:TRP:CD2	2.45	0.52
2:CP:87:LYS:HG3	2:CP:142:TRP:CD2	2.45	0.52
1:A2:118:ALA:HB2	1:A2:132:GLN:NE2	2.23	0.52
2:CK:115:ASN:OD1	3:DA:119:LYS:CD	269.48	0.52
2:CK:24:ILE:HG23	3:DA:145:VAL:HB	252.46	0.52
2:C7:24:ILE:HG23	3:DM:145:VAL:HB	141.44	0.52
2:CZ:24:ILE:HG23	3:DQ:145:VAL:HB	83.67	0.52
2:CY:115:ASN:OD1	3:DZ:119:LYS:CD	2.58	0.52
2:CP:115:ASN:C	3:D1:119:LYS:HZ3	2.13	0.52
2:CF:24:ILE:HG23	3:D6:145:VAL:HB	1.92	0.52
2:CJ:49:ASP:CB	3:DF:161:SER:HB3	2.40	0.52
2:CO:49:ASP:CB	3:DK:161:SER:HB3	2.40	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:DW:100:TYR:CZ	3:DW:167:MET:HB2	2.45	0.52
3:D6:100:TYR:CZ	3:D6:167:MET:HB2	2.45	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:A8:206:GLY:HA3	1:AB:121:LEU:CD2	228.79	0.52
1:AB:37:PHE:HA	1:AB:211:TYR:O	2.10	0.52
1:AG:37:PHE:HA	1:AG:211:TYR:O	2.10	0.52
1:AH:37:PHE:HA	1:AH:211:TYR:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:37:PHE:HA	1:AJ:211:TYR:O	2.10	0.52
1:AT:121:LEU:CD2	1:AU:206:GLY:HA3	2.39	0.52
1:AW:99:GLU:OE2	1:AW:101:PHE:HE1	1.92	0.52
1:AW:121:LEU:CD2	1:AX:206:GLY:HA3	2.39	0.52
1:BA:37:PHE:HA	1:BA:211:TYR:O	2.10	0.52
1:BC:121:LEU:CD2	1:BD:206:GLY:HA3	2.39	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: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
1:AP:157:SER:CB	3:DP:24:PRO:HA	2.36	0.52
3:DS:42:ASN:HD22	3:DS:44:ILE:N	2.08	0.52
3:DP:42:ASN:HD22	3:DP:44:ILE:N	2.08	0.52
1:AV:212:ARG:O	1:AV:214:PRO:HD2	2.09	0.52
1:A5:212:ARG:HG2	1:A5:214:PRO:HD3	1.91	0.52
1:A0:121:LEU:CD2	1:A1:206:GLY:HA3	2.39	0.52
1:AZ:212:ARG:O	1:AZ:214:PRO:HD2	2.09	0.52
1:AM:186:TRP:O	1:AM:187:LEU:HB3	2.09	0.52
1:BG:184:TYR:HE2	2:CV:139:ALA:CB	266.53	0.52
1:A9:184:TYR:HE2	2:CA:139:ALA:CB	264.05	0.52
1:AO:184:TYR:HE2	2:CS:139:ALA:CB	112.02	0.52
2:CS:80:ILE:HG23	2:CS:82:PRO:HD3	1.91	0.52
1:AN:184:TYR:HE2	2:CB:139:ALA:CB	206.88	0.52
1:A7:184:TYR:HE2	2:C8:139:ALA:CB	2.23	0.52
2:CY:80:ILE:HG23	2:CY:82:PRO:HD3	1.91	0.52
1:AO:48:LEU:O	1:AO:131:GLN:NE2	2.43	0.52
1:A1:48:LEU:O	1:A1:131:GLN:NE2	2.43	0.52
1:AM:48:LEU:O	1:AM:131:GLN:NE2	2.43	0.52
1:AH:48:LEU:O	1:AH:131:GLN:NE2	2.43	0.52
2:CE:226:LEU:CD2	3:DF:126:PRO:HG2	27.79	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
3:DW:108:PHE:HA	3:DW:205:LEU:O	2.09	0.52
1:AF:76:THR:O	1:AF:169:VAL:HG23	2.10	0.52
2:C7:152:TYR:CE1	3:D7:60:PRO:HD3	2.44	0.52
1:BC:76:THR:O	1:BC:169:VAL:HG23	2.10	0.52
1:AY:76:THR:O	1:AY:169:VAL:HG23	2.10	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
1:A6:76:THR:O	1:A6:169:VAL:HG23	2.10	0.52
3:DQ:31:VAL:HG12	4:FQ:35:ASP:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:31:VAL:HB	4:FJ:34:ILE:O	2.10	0.52
3:DX:31:VAL:HB	4:FX:34:ILE:O	2.10	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
2:C4:69:TRP:HD1	2:C4:70:PRO:N	2.07	0.52
3:DR:56:ILE:HD13	3:DR:206:VAL:HG11	1.91	0.52
2:C5:124:LEU:HD12	2:C5:163:LEU:HD12	1.92	0.52
2:C2:69:TRP:CZ3	2:C2:124:LEU:CG	2.92	0.52
3:D3:56:ILE:HD13	3:D3:206:VAL:HG11	1.91	0.52
1:A4:184:TYR:HE2	2:C5:139:ALA:CB	2.23	0.52
1:A2:184:TYR:HE2	2:C3:139:ALA:CB	2.23	0.52
1:AB:86:ILE:CD1	1:AB:86:ILE:H	2.23	0.52
3:DY:56:ILE:HG13	3:DY:74:PHE:HE1	1.72	0.52
3:ED:56:ILE:HD13	3:ED:206:VAL:HG11	1.91	0.52
1:A9:86:ILE:H	1:A9:86:ILE:HD12	1.73	0.52
1:AG:86:ILE:H	1:AG:86:ILE:CD1	2.23	0.52
1:AU:86:ILE:CD1	1:AU:86:ILE:H	2.23	0.52
1:A3:86:ILE:CD1	1:A3:86:ILE:H	2.23	0.52
1:AI:239:PHE:CD1	3:DI:170:TYR:CD2	2.96	0.52
1:AD:239:PHE:CD1	3:DF:170:TYR:CD2	132.82	0.52
1:AE:104:VAL:HG22	1:AE:197:LEU:HD21	1.90	0.52
1:BG:104:VAL:HG22	1:BG:197:LEU:HD21	1.90	0.52
1:BG:76:THR:O	1:BG:169:VAL:HG23	2.10	0.52
1:AW:76:THR:O	1:AW:169:VAL:HG23	2.10	0.52
1:AI:108:PRO:HA	1:AI:161:THR:HG21	1.92	0.52
1:AF:109:VAL:H	1:AF:161:THR:HB	1.74	0.52
1:AH:242:ASN:HB2	1:AL:110:GLY:H	267.94	0.52
1:BD:109:VAL:H	1:BD:161:THR:HB	1.74	0.52
1:BA:108:PRO:HA	1:BA:161:THR:HG21	1.92	0.52
1:AD:110:GLY:H	1:AE:242:ASN:HB2	1.75	0.52
1:BE:242:ASN:HB2	1:BI:110:GLY:H	1.75	0.52
1:AW:109:VAL:HG23	1:AW:161:THR:OG1	2.09	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:AY:110:GLY:H	1:AZ:242:ASN:HB2	1.75	0.52
1:A0:110:GLY:H	1:A1:242:ASN:HB2	1.75	0.52
1:BE:109:VAL:H	1:BE:161:THR:HB	1.74	0.52
4:FR:25:PHE:CD2	4:FR:26:TYR:CE1	2.98	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
3:DX:169:VAL:HG12	3:DX:169:VAL:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:169:VAL:O	3:EB:169:VAL:HG12	2.09	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
2:CO:87:LYS:HG3	2:CO:142:TRP:CD2	2.45	0.52
2:CS:87:LYS:HG3	2:CS:142:TRP:CD2	2.45	0.52
2:CI:24:ILE:HG23	3:DJ:145:VAL:HB	46.07	0.52
3:DJ:145:VAL:HG22	3:DJ:188:LEU:HD12	1.91	0.52
2:CT:115:ASN:OD1	3:DK:119:LYS:CD	2.58	0.52
2:CD:24:ILE:HG23	3:D4:145:VAL:HB	131.64	0.52
3:DO:145:VAL:HG22	3:DO:188:LEU:HD12	1.91	0.52
2:CN:24:ILE:HG23	3:D2:145:VAL:HB	1.92	0.52
2:C6:115:ASN:OD1	3:DE:119:LYS:CD	2.57	0.52
2:CS:115:ASN:OD1	3:EA:119:LYS:CD	158.84	0.52
2:CP:24:ILE:HG23	3:D1:145:VAL:HB	1.92	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:CR:49:ASP:CB	3:DS:161:SER:HB3	2.40	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:DY:100:TYR:CZ	3:DY:167:MET:HB2	2.45	0.52
3:DU:100:TYR:CZ	3:DU:167:MET:HB2	2.45	0.52
1:AG:88:PHE:HE1	1:AG:205:GLY:C	2.14	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:BB:37:PHE:HA	1:BB:211:TYR:O	2.10	0.52
1:BE:99:GLU:OE2	1:BE:101:PHE:HE1	1.92	0.52
3:DG:42:ASN:HD22	3:DG:44:ILE:N	2.08	0.52
3:DN:42:ASN:HD22	3:DN:44:ILE:N	2.08	0.52
1:A2:212:ARG:O	1:A2:214:PRO:HD2	2.09	0.52
1:A2:99:GLU:OE2	1:A2:101:PHE:HE1	1.92	0.52
1:A6:212:ARG:HG2	1:A6:214:PRO:HD3	1.91	0.52
1:AW:186:TRP:O	1:AW:187:LEU:HB3	2.09	0.52
2:CV:80:ILE:HG23	2:CV:82:PRO:HD3	1.91	0.52
1:AK:184:TYR:HE2	2:CK:139:ALA:CB	2.22	0.52
2:CM:80:ILE:HG23	2:CM:82:PRO:HD3	1.91	0.52
2:CN:80:ILE:HG23	2:CN:82:PRO:HD3	1.91	0.52
1:AL:48:LEU:O	1:AL:131:GLN:NE2	2.43	0.52
1:BD:48:LEU:O	1:BD:131:GLN:NE2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:181:LYS:HA	2:CX:137:GLU:HG3	1.89	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:AI:48:LEU:O	1:AI:131:GLN:NE2	2.43	0.52
1:BH:103:TRP:HB2	1:BH:198:THR:HG22	1.90	0.52
1:A7:48:LEU:O	1:A7:131:GLN:NE2	2.43	0.52
1:AK:48:LEU:O	1:AK:131:GLN:NE2	2.43	0.52
2:CV:153:GLN:NE2	3:EC:55:SER:N	261.13	0.52
2:CF:152:TYR:CE1	3:DF:60:PRO:HD3	2.45	0.52
2:CF:153:GLN:NE2	3:DF:55:SER:N	2.58	0.52
2:CQ:226:LEU:CD2	3:DR:126:PRO:HG2	2.36	0.52
2:CX:153:GLN:NE2	3:DX:55:SER:N	2.58	0.52
2:CG:152:TYR:CE1	3:DG:60:PRO:HD3	2.45	0.52
2:CK:152:TYR:CE1	3:DK:60:PRO:HD3	2.45	0.52
1:AN:30:VAL:HG13	1:AN:218:MET:HE2	1.90	0.52
1:AZ:76:THR:O	1:AZ:169:VAL:HG23	2.10	0.52
1:AU:76:THR:O	1:AU:169:VAL:HG23	2.10	0.52
1:A0:76:THR:O	1:A0:169:VAL:HG23	2.10	0.52
1:AV:184:TYR:HE2	2:CW:139:ALA:CB	2.23	0.52
3:DA:31:VAL:HG12	4:FA:35:ASP:HA	1.92	0.52
3:DI:31:VAL:HB	4:FI:34:ILE:O	2.10	0.52
3:DE:31:VAL:HG12	4:FE:35:ASP:HA	1.92	0.52
3:DI:31:VAL:HG12	4:FI:35:ASP:HA	1.92	0.52
1:AD:165:ARG:HD3	2:CD:182:PRO:HG3	1.90	0.52
3:EA:31:VAL:HB	4:FT:34:ILE:O	166.07	0.52
1:AO:165:ARG:HD3	2:CS:182:PRO:HG3	86.93	0.52
3:DP:31:VAL:HB	4:FP:34:ILE:O	2.10	0.52
3:EC:31:VAL:HB	4:FV:34:ILE:O	217.59	0.52
2:CK:69:TRP:CZ3	2:CK:124:LEU:CG	2.92	0.52
3:DA:56:ILE:HD13	3:DA:206:VAL:HG11	1.91	0.52
3:DP:56:ILE:HD13	3:DP:206:VAL:HG11	1.91	0.52
3:ED:31:VAL:HB	4:FW:34:ILE:O	193.62	0.52
1:A1:184:TYR:HE2	2:C2:139:ALA:CB	2.23	0.52
2:C2:69:TRP:HD1	2:C2:70:PRO:N	2.07	0.52
3:D2:56:ILE:HD13	3:D2:206:VAL:HG11	1.91	0.52
3:D7:31:VAL:HG12	4:F7:35:ASP:HA	1.92	0.52
3:DR:31:VAL:HG12	4:FR:35:ASP:HA	1.92	0.52
3:D0:31:VAL:HB	4:F0:34:ILE:O	2.10	0.52
1:A7:86:ILE:H	1:A7:86:ILE:CD1	2.23	0.52
1:BF:86:ILE:CD1	1:BF:86:ILE:H	2.23	0.52
1:AC:86:ILE:H	1:AC:86:ILE:CD1	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:86:ILE:H	1:AQ:86:ILE:CD1	2.23	0.52
1:BD:86:ILE:CD1	1:BD:86:ILE:H	2.23	0.52
3:DI:56:ILE:HD13	3:DI:206:VAL:HG11	1.91	0.52
1:AM:86:ILE:H	1:AM:86:ILE:HD12	1.72	0.52
1:BA:86:ILE:H	1:BA:86:ILE:CD1	2.23	0.52
1:BC:86:ILE:CD1	1:BC:86:ILE:H	2.23	0.52
3:D9:90:VAL:HG11	3:D9:208:VAL:HG12	1.91	0.52
3:D2:90:VAL:HG11	3:D2:208:VAL:HG12	1.91	0.52
3:D8:90:VAL:HG11	3:D8:208:VAL:HG12	1.91	0.52
3:DM:90:VAL:HG11	3:DM:208:VAL:HG12	1.91	0.52
1:AJ:239:PHE:CD1	3:DJ:170:TYR:CD2	2.96	0.52
1:AH:104:VAL:HG22	1:AH:197:LEU:HD21	1.90	0.52
1:AV:109:VAL:H	1:AV:161:THR:HB	1.74	0.52
1:AE:109:VAL:H	1:AE:161:THR:HB	1.74	0.52
1:AU:110:GLY:H	1:AV:242:ASN:HB2	1.75	0.52
1:A3:109:VAL:H	1:A3:161:THR:HB	1.74	0.52
1:A3:108:PRO:HA	1:A3:161:THR:HG21	1.92	0.52
1:BF:109:VAL:HG23	1:BF:161:THR:OG1	2.09	0.52
1:A4:110:GLY:H	1:A5:242:ASN:HB2	1.75	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
1:A1:109:VAL:HG23	1:A1:161:THR:OG1	2.09	0.52
2:CL:87:LYS:HG3	2:CL:142:TRP:CD2	2.45	0.52
2:CK:87:LYS:HG3	2:CK:142:TRP:CD2	2.45	0.52
2:CT:87:LYS:HG3	2:CT:142:TRP:CD2	2.45	0.52
2:CI:87:LYS:HG3	2:CI:142:TRP:CD2	2.45	0.52
3:ED:48:LYS:HA	3:ED:210:ALA:HB3	1.90	0.52
2:C1:87:LYS:HG3	2:C1:142:TRP:CD2	2.45	0.52
2:CH:87:LYS:HG3	2:CH:142:TRP:CD2	2.45	0.52
2:CQ:87:LYS:HG3	2:CQ:142:TRP:CD2	2.45	0.52
2:CP:228:ASN:ND2	3:DQ:140:ALA:HB2	2.24	0.52
2:CG:87:LYS:HG3	2:CG:142:TRP:CD2	2.45	0.52
2:C7:87:LYS:HG3	2:C7:142:TRP:CD2	2.45	0.52
2:C2:24:ILE:HG23	3:DH:145:VAL:HB	242.12	0.52
2:CT:24:ILE:HG23	3:DK:145:VAL:HB	1.92	0.52
2:CD:24:ILE:HG23	3:D7:145:VAL:HB	1.92	0.52
3:EB:145:VAL:HG22	3:EB:188:LEU:HD12	1.91	0.52
2:CY:24:ILE:HG23	3:DZ:145:VAL:HB	1.92	0.52
2:CA:49:ASP:CB	3:DB:161:SER:HB3	2.40	0.52
3:DM:100:TYR:CZ	3:DM:167:MET:HB2	2.45	0.52
3:D3:100:TYR:CZ	3:D3:167:MET:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:49:ASP:CB	3:EE:161:SER:HB3	191.83	0.52
2:C8:49:ASP:CB	3:D4:161:SER:HB3	2.40	0.52
3:D0:100:TYR:CZ	3:D0:167:MET:HB2	2.45	0.52
1:AK:37:PHE:HA	1:AK:211:TYR:O	2.10	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:AW:212:ARG:O	1:AW:214:PRO:HD2	2.09	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:BI:212:ARG:O	1:BI:214:PRO:HD2	2.09	0.52
1:BA:157:SER:CB	3:DP:24:PRO:HA	117.39	0.52
3:DI:42:ASN:HD22	3:DI:44:ILE:N	2.08	0.52
3:DU:42:ASN:HD22	3:DU:44:ILE:N	2.07	0.52
3:D0:42:ASN:HD22	3:D0:44:ILE:HG22	1.65	0.52
3:D9:42:ASN:HD22	3:D9:44:ILE:N	2.08	0.52
1:A1:121:LEU:CD2	1:A2:206:GLY:HA3	2.39	0.52
1:AY:121:LEU:CD2	1:AZ:206:GLY:HA3	2.39	0.52
1:A7:186:TRP:O	1:A7:187:LEU:HB3	2.09	0.52
1:AR:186:TRP:O	1:AR:187:LEU:HB3	2.09	0.52
2:CB:209:VAL:N	2:CB:210:PRO:CD	2.68	0.52
1:A6:184:TYR:HE2	2:C7:139:ALA:CB	2.23	0.52
1:AD:184:TYR:HE2	2:CD:139:ALA:CB	2.23	0.52
1:AB:48:LEU:HD21	1:AB:103:TRP:CE3	2.44	0.52
1:AG:48:LEU:O	1:AG:131:GLN:NE2	2.43	0.52
1:A3:48:LEU:HD21	1:A3:103:TRP:CE3	2.44	0.52
1:BG:48:LEU:O	1:BG:131:GLN:NE2	2.43	0.52
1:AA:48:LEU:O	1:AA:131:GLN:NE2	2.43	0.52
1:AA:50:GLY:O	1:AA:131:GLN:NE2	2.43	0.52
1:A0:103:TRP:HB2	1:A0:198:THR:HG22	1.89	0.52
1:AU:48:LEU:O	1:AU:131:GLN:NE2	2.43	0.52
3:DI:108:PHE:HA	3:DI:205:LEU:O	2.09	0.52
2:C9:27:GLN:HG3	2:C9:28:GLY:H	1.73	0.52
2:CJ:152:TYR:CE1	3:DJ:60:PRO:HD3	2.45	0.52
1:AI:76:THR:O	1:AI:169:VAL:HG23	2.10	0.52
2:CV:226:LEU:CD2	3:ED:126:PRO:HG2	250.57	0.52
3:D3:108:PHE:HA	3:D3:205:LEU:O	2.09	0.52
2:CZ:152:TYR:CB	2:CZ:197:LEU:HD22	2.40	0.52
2:CS:152:TYR:CB	2:CS:197:LEU:HD22	2.40	0.52
2:C1:152:TYR:CE1	3:D1:60:PRO:HD3	2.45	0.52
1:AR:76:THR:O	1:AR:169:VAL:HG23	2.10	0.52
2:CD:152:TYR:CB	2:CD:197:LEU:HD22	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:153:GLN:NE2	3:D8:55:SER:N	2.58	0.52
3:DC:31:VAL:HB	4:FC:34:ILE:O	2.10	0.52
3:DS:31:VAL:HB	4:FS:34:ILE:O	2.10	0.52
3:DK:31:VAL:HB	4:FK:34:ILE:O	2.10	0.52
3:DD:31:VAL:HB	4:FD:34:ILE:O	2.10	0.52
3:DB:31:VAL:HB	4:FB:34:ILE:O	2.10	0.52
3:DZ:31:VAL:HB	4:FZ:34:ILE:O	2.10	0.52
1:AI:219:TYR:OH	3:DK:34:ARG:HD2	237.77	0.52
1:BA:165:ARG:HD3	2:CP:182:PRO:HG3	95.76	0.52
2:CG:124:LEU:HD12	2:CG:163:LEU:HD12	1.92	0.52
2:CF:69:TRP:HD1	2:CF:70:PRO:N	2.07	0.52
2:C4:124:LEU:HD12	2:C4:163:LEU:CD1	2.40	0.52
3:D7:31:VAL:HB	4:F7:34:ILE:O	2.10	0.52
1:BE:219:TYR:OH	3:EA:34:ARG:HD2	2.08	0.52
3:DH:56:ILE:HD13	3:DH:206:VAL:HG11	1.91	0.52
2:C3:124:LEU:HD12	2:C3:163:LEU:HD12	1.92	0.52
2:CO:124:LEU:HD12	2:CO:163:LEU:HD12	1.92	0.52
3:EA:56:ILE:HG13	3:EA:74:PHE:HE1	1.72	0.52
1:AQ:86:ILE:H	1:AQ:86:ILE:HD12	1.72	0.52
1:A0:86:ILE:HD12	1:A0:86:ILE:H	1.72	0.52
1:AX:86:ILE:H	1:AX:86:ILE:HD12	1.72	0.52
1:AV:86:ILE:CD1	1:AV:86:ILE:H	2.23	0.52
1:AD:86:ILE:HD12	1:AD:86:ILE:H	1.72	0.52
1:BD:239:PHE:CD1	3:DS:170:TYR:CD2	162.00	0.52
1:A2:76:THR:O	1:A2:169:VAL:HG23	2.10	0.52
1:AE:76:THR:O	1:AE:169:VAL:HG23	2.10	0.52
1:AL:108:PRO:HA	1:AL:161:THR:HG21	1.92	0.52
1:AA:110:GLY:H	1:AB:242:ASN:HB2	1.75	0.52
1:AE:110:GLY:H	1:AF:242:ASN:HB2	74.66	0.52
1:AJ:108:PRO:HA	1:AJ:161:THR:HG21	1.92	0.52
1:AN:108:PRO:HA	1:AN:161:THR:HG21	1.92	0.52
1:AO:109:VAL:H	1:AO:161:THR:HB	1.74	0.52
1:AC:110:GLY:H	1:AD:242:ASN:HB2	1.75	0.52
1:A8:110:GLY:H	1:A9:242:ASN:HB2	1.75	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:A1:110:GLY:H	1:A2:242:ASN:HB2	1.75	0.52
1:AQ:108:PRO:HA	1:AQ:161:THR:HG21	1.92	0.52
1:A6:108:PRO:HA	1:A6:161:THR:HG21	1.92	0.52
4:FS:25:PHE:CD2	4:FS:26:TYR:CE1	2.98	0.52
4:FE:25:PHE:CD2	4:FE:26:TYR:CE1	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FL:25:PHE:CD2	4:FL:26:TYR:CE1	2.98	0.52
4:F0:25:PHE:CD2	4:F0:26:TYR:CE1	2.98	0.52
3:DY:169:VAL:O	3:DY:169:VAL:HG12	2.09	0.52
2:CV:228:ASN:ND2	3:DW:140:ALA:HB2	2.24	0.52
2:CV:228:ASN:ND2	3:ED:140:ALA:HB2	257.81	0.52
1:AR:109:VAL:HG23	1:AR:161:THR:OG1	2.09	0.52
1:A7:108:PRO:HA	1:A7:161:THR:HG21	1.92	0.52
3:DW:48:LYS:HA	3:DW:210:ALA:HB3	1.90	0.52
2:C3:87:LYS:HG3	2:C3:142:TRP:CD2	2.45	0.52
3:DZ:48:LYS:HA	3:DZ:210:ALA:HB3	1.90	0.52
2:CW:87:LYS:HG3	2:CW:142:TRP:CD2	2.45	0.52
2:C4:87:LYS:HG3	2:C4:142:TRP:CD2	2.45	0.52
2:CF:87:LYS:HG3	2:CF:142:TRP:CD2	2.45	0.52
2:C8:115:ASN:OD1	3:D9:119:LYS:CD	2.58	0.52
2:CC:115:ASN:OD1	3:DN:119:LYS:CD	157.70	0.52
2:CV:115:ASN:OD1	3:DD:119:LYS:CD	146.18	0.52
2:CL:115:ASN:OD1	3:D8:119:LYS:CD	109.98	0.52
2:CL:24:ILE:HG23	3:D8:145:VAL:HB	113.02	0.52
2:CO:115:ASN:OD1	3:DR:119:LYS:CD	146.18	0.52
2:CZ:115:ASN:OD1	3:DQ:119:LYS:CD	88.88	0.52
2:CJ:49:ASP:CB	3:DK:161:SER:HB3	247.42	0.52
2:CT:49:ASP:CB	3:DP:161:SER:HB3	2.40	0.52
3:EB:103:SER:HB3	3:EB:159:PRO:CA	2.35	0.52
2:C9:104:VAL:HG22	2:C9:222:VAL:HG13	1.92	0.52
2:CW:49:ASP:CB	3:DX:161:SER:HB3	2.40	0.52
3:D7:100:TYR:CZ	3:D7:167:MET:HB2	2.45	0.52
2:C6:104:VAL:HG22	2:C6:222:VAL:HG13	1.92	0.52
2:CW:104:VAL:HG22	2:CW:222:VAL:HG13	1.92	0.52
2:CZ:104:VAL:HG22	2:CZ:222:VAL:HG13	1.92	0.52
1:A9:88:PHE:HE1	1:A9:205:GLY:C	2.14	0.52
1:AD:37:PHE:HA	1:AD:211:TYR:O	2.10	0.52
1:AF:121:LEU:CD2	1:AG:206:GLY:HA3	2.39	0.52
1:AI:37:PHE:HA	1:AI:211:TYR:O	2.10	0.52
1:AJ:212:ARG:O	1:AJ:214:PRO:HD2	2.09	0.52
1:AM:206:GLY:HA3	1:BD:121:LEU:CD2	250.45	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:AS:88:PHE:HE1	1:AS:205:GLY:C	2.13	0.52
1:AW:88:PHE:HE1	1:AW:205:GLY:C	2.14	0.52
1:AM:121:LEU:CD2	1:BA:206:GLY:HA3	228.79	0.52
1:BI:37:PHE:HA	1:BI:211:TYR:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:157:SER:CB	3:DC:24:PRO:HA	2.35	0.52
1:AB:157:SER:CB	3:DD:24:PRO:HA	39.10	0.52
3:EC:42:ASN:HD22	3:EC:44:ILE:N	2.08	0.52
1:AV:212:ARG:HG2	1:AV:214:PRO:HD3	1.91	0.52
1:BG:121:LEU:CD2	1:BH:206:GLY:HA3	2.39	0.52
1:A2:121:LEU:CD2	1:AY:206:GLY:HA3	2.39	0.52
1:AZ:212:ARG:HG2	1:AZ:214:PRO:HD3	1.91	0.52
1:A6:186:TRP:O	1:A6:187:LEU:HB3	2.09	0.52
1:AZ:186:TRP:O	1:AZ:187:LEU:HB3	2.09	0.52
1:A5:186:TRP:O	1:A5:187:LEU:HB3	2.09	0.52
1:AG:186:TRP:O	1:AG:187:LEU:HB3	2.09	0.52
2:CI:80:ILE:HG23	2:CI:82:PRO:HD3	1.91	0.52
1:AB:184:TYR:HE2	2:CB:139:ALA:CB	2.23	0.52
2:CB:80:ILE:HG23	2:CB:82:PRO:HD3	1.91	0.52
1:AX:48:LEU:HD21	1:AX:103:TRP:CE3	2.44	0.52
1:AM:50:GLY:O	1:AM:131:GLN:NE2	2.43	0.52
2:CO:52:THR:OG1	2:CQ:57:THR:HB	130.58	0.52
1:AV:50:GLY:O	1:AV:131:GLN:NE2	2.43	0.52
2:C4:226:LEU:CD2	3:D5:126:PRO:HG2	2.36	0.52
2:CL:226:LEU:CD2	3:DM:126:PRO:HG2	2.36	0.52
2:CP:152:TYR:CB	2:CP:197:LEU:HD22	2.40	0.52
2:CQ:152:TYR:CB	2:CQ:197:LEU:HD22	2.40	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
3:DU:108:PHE:HA	3:DU:205:LEU:O	2.09	0.52
1:AA:76:THR:O	1:AA:169:VAL:HG23	2.10	0.52
2:C3:152:TYR:CE1	3:D3:60:PRO:HD3	2.45	0.52
2:CE:152:TYR:CB	2:CE:197:LEU:HD22	2.40	0.52
2:CR:152:TYR:CE1	3:DR:60:PRO:HD3	2.45	0.52
2:CK:153:GLN:NE2	3:DK:55:SER:N	2.58	0.52
1:AL:30:VAL:HG13	1:AL:218:MET:HE2	1.97	0.52
2:CB:152:TYR:CB	2:CB:197:LEU:HD22	2.40	0.52
2:C1:153:GLN:NE2	3:D1:55:SER:N	2.58	0.52
2:C7:153:GLN:NE2	3:D7:55:SER:N	2.58	0.52
2:CB:27:GLN:HG3	2:CB:28:GLY:H	1.73	0.52
1:AN:165:ARG:HD3	2:CB:182:PRO:HG3	184.59	0.52
3:DU:31:VAL:HB	4:FU:34:ILE:O	2.10	0.52
3:DV:31:VAL:HB	4:FV:34:ILE:O	2.10	0.52
2:CK:124:LEU:HD12	2:CK:163:LEU:HD12	1.92	0.52
2:C2:124:LEU:HD12	2:C2:163:LEU:CD1	2.40	0.52
2:CW:124:LEU:HD12	2:CW:163:LEU:CD1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:86:ILE:H	1:AA:86:ILE:CD1	2.23	0.52
1:AN:86:ILE:CD1	1:AN:86:ILE:H	2.23	0.52
1:BE:86:ILE:H	1:BE:86:ILE:HD12	1.73	0.52
1:AI:86:ILE:H	1:AI:86:ILE:CD1	2.23	0.52
3:DD:90:VAL:HG11	3:DD:208:VAL:HG12	1.91	0.52
3:DG:90:VAL:HG11	3:DG:208:VAL:HG12	1.91	0.52
1:AE:239:PHE:CD1	3:DE:170:TYR:CD2	2.96	0.52
1:BF:239:PHE:CD1	3:EB:170:TYR:CD2	2.96	0.52
1:A7:239:PHE:CD1	3:D8:170:TYR:CD2	2.96	0.52
1:A1:104:VAL:HG22	1:A1:197:LEU:HD21	1.90	0.52
1:BC:108:PRO:HA	1:BC:161:THR:HG21	1.92	0.52
1:AV:110:GLY:H	1:AW:242:ASN:HB2	1.75	0.52
1:AF:108:PRO:HA	1:AF:161:THR:HG21	1.92	0.52
1:A8:242:ASN:HB2	1:AB:110:GLY:H	216.55	0.52
1:BA:110:GLY:H	1:BB:242:ASN:HB2	1.75	0.52
1:AK:242:ASN:HB2	1:AO:110:GLY:H	1.75	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
4:FQ:25:PHE:CD2	4:FQ:26:TYR:CE1	2.98	0.52
4:FB:25:PHE:CD2	4:FB:26:TYR:CE1	2.98	0.52
3:D2:169:VAL:O	3:D2:169:VAL:HG12	2.09	0.52
3:DS:169:VAL:O	3:DS:169:VAL:HG12	2.09	0.52
3:D5:169:VAL:O	3:D5:169:VAL:HG12	2.09	0.52
2:C2:228:ASN:ND2	3:D3:140:ALA:HB2	2.24	0.52
2:CI:228:ASN:ND2	3:DE:140:ALA:HB2	142.11	0.52
2:C9:228:ASN:ND2	3:DA:140:ALA:HB2	230.01	0.52
1:AX:109:VAL:H	1:AX:161:THR:HB	1.74	0.52
2:CB:87:LYS:HG3	2:CB:142:TRP:CD2	2.45	0.52
2:CM:87:LYS:HG3	2:CM:142:TRP:CD2	2.45	0.52
2:CW:24:ILE:HG23	3:DS:145:VAL:HB	227.17	0.52
3:DS:145:VAL:HG22	3:DS:188:LEU:HD12	1.91	0.52
2:CX:115:ASN:OD1	3:DR:119:LYS:CD	150.75	0.52
2:CA:115:ASN:OD1	3:DW:119:LYS:CD	2.57	0.52
2:C6:24:ILE:HG23	3:DE:145:VAL:HB	1.92	0.52
2:CB:24:ILE:HG23	3:DT:145:VAL:HB	242.29	0.52
3:DC:103:SER:HB3	3:DC:159:PRO:CA	2.35	0.52
3:DE:103:SER:HB3	3:DE:159:PRO:CA	2.35	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:C0:49:ASP:CB	3:D1:161:SER:HB3	2.40	0.52
2:CK:104:VAL:HG22	2:CK:222:VAL:HG13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:104:VAL:HG22	2:C0:222:VAL:HG13	1.92	0.52
1:A9:121:LEU:CD2	1:AN:206:GLY:HA3	159.71	0.52
1:AA:88:PHE:HE1	1:AA:205:GLY:C	2.14	0.52
1:AC:206:GLY:HA3	1:AG:121:LEU:CD2	191.26	0.52
1:AF:88:PHE:HE1	1:AF:205:GLY:C	2.13	0.52
1:AL:121:LEU:CD2	1:AM:206:GLY:HA3	2.39	0.52
1:AL:88:PHE:HE1	1:AL:205:GLY:C	2.14	0.52
1:AM:88:PHE:HE1	1:AM:205:GLY:C	2.14	0.52
1:AR:37:PHE:HA	1:AR:211:TYR:O	2.10	0.52
1:AT:99:GLU:OE2	1:AT:101:PHE:HE1	1.92	0.52
1:BB:88:PHE:HE1	1:BB:205:GLY:C	2.14	0.52
1:BC:99:GLU:OE2	1:BC:101:PHE:HE1	1.92	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
3:EE:42:ASN:HD22	3:EE:44:ILE:N	2.07	0.52
1:AV:157:SER:CB	3:DW:24:PRO:HA	2.36	0.52
1:A2:88:PHE:HE1	1:A2:205:GLY:C	2.14	0.52
1:A2:37:PHE:HA	1:A2:211:TYR:O	2.10	0.52
1:AY:88:PHE:HE1	1:AY:205:GLY:C	2.14	0.52
1:A4:186:TRP:O	1:A4:187:LEU:HB3	2.09	0.52
1:AC:184:TYR:HE2	2:CC:139:ALA:CB	2.22	0.52
1:AI:184:TYR:HE2	2:CK:139:ALA:CB	280.36	0.52
2:CW:80:ILE:HG23	2:CW:82:PRO:HD3	1.91	0.52
1:A9:48:LEU:O	1:A9:131:GLN:NE2	2.43	0.52
1:A7:103:TRP:HB2	1:A7:198:THR:HG22	1.89	0.52
2:CG:52:THR:OG1	2:CT:57:THR:HB	217.11	0.52
2:CP:52:THR:OG1	2:CZ:57:THR:HB	82.56	0.52
1:A4:48:LEU:O	1:A4:131:GLN:NE2	2.43	0.52
1:AQ:48:LEU:O	1:AQ:131:GLN:NE2	2.43	0.52
1:AS:48:LEU:O	1:AS:131:GLN:NE2	2.43	0.52
2:C7:73:GLN:NE2	2:C7:73:GLN:HA	2.17	0.52
2:CU:152:TYR:CB	2:CU:197:LEU:HD22	2.40	0.52
2:CX:152:TYR:CB	2:CX:197:LEU:HD22	2.40	0.52
2:C5:27:GLN:HG3	2:C5:28:GLY:H	1.73	0.52
2:C0:226:LEU:CD2	3:D1:126:PRO:HG2	2.36	0.52
1:AK:76:THR:O	1:AK:169:VAL:HG23	2.10	0.52
2:CW:153:GLN:NE2	3:DW:55:SER:N	2.58	0.52
2:CW:153:GLN:NE2	3:ED:55:SER:N	252.61	0.52
3:ED:108:PHE:HA	3:ED:205:LEU:O	2.09	0.52
2:C7:152:TYR:CB	2:C7:197:LEU:HD22	2.40	0.52
1:A5:76:THR:O	1:A5:169:VAL:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:152:TYR:CB	2:C6:197:LEU:HD22	2.40	0.52
2:C0:152:TYR:CE1	3:D0:60:PRO:HD3	2.45	0.52
2:C0:152:TYR:CB	2:C0:197:LEU:HD22	2.40	0.52
3:DO:31:VAL:HB	4:FO:34:ILE:O	2.10	0.52
3:DL:31:VAL:HB	4:FL:34:ILE:O	2.10	0.52
1:AD:165:ARG:HD3	2:CF:182:PRO:HG3	97.42	0.52
1:AJ:165:ARG:HD3	2:CJ:182:PRO:HG3	1.90	0.52
2:C8:124:LEU:HD12	2:C8:163:LEU:CD1	2.40	0.52
3:D8:56:ILE:HD13	3:D8:206:VAL:HG11	1.91	0.52
2:CC:124:LEU:HD12	2:CC:163:LEU:CD1	2.40	0.52
2:C9:124:LEU:HD12	2:C9:163:LEU:CD1	2.40	0.52
2:CY:124:LEU:HD12	2:CY:163:LEU:CD1	2.40	0.52
1:BC:184:TYR:HE2	2:CR:139:ALA:CB	161.24	0.52
1:AS:86:ILE:CD1	1:AS:86:ILE:H	2.23	0.52
3:DN:56:ILE:HD13	3:DN:206:VAL:HG11	1.91	0.52
3:DL:56:ILE:HD13	3:DL:206:VAL:HG11	1.91	0.52
1:AF:86:ILE:CD1	1:AF:86:ILE:H	2.23	0.52
3:D5:90:VAL:HG11	3:D5:208:VAL:HG12	1.91	0.52
1:AP:76:THR:O	1:AP:169:VAL:HG23	2.10	0.52
1:A9:76:THR:O	1:A9:169:VAL:HG23	2.10	0.52
1:AQ:76:THR:O	1:AQ:169:VAL:HG23	2.10	0.52
1:AG:110:GLY:H	1:AH:242:ASN:HB2	1.75	0.52
1:AL:110:GLY:H	1:AM:242:ASN:HB2	1.75	0.52
1:BG:109:VAL:HG23	1:BG:161:THR:OG1	2.09	0.52
1:A9:109:VAL:H	1:A9:161:THR:HB	1.74	0.52
1:AT:108:PRO:HA	1:AT:161:THR:HG21	1.92	0.52
1:AW:108:PRO:HA	1:AW:161:THR:HG21	1.92	0.52
1:BH:109:VAL:H	1:BH:161:THR:HB	1.74	0.52
1:AY:109:VAL:H	1:AY:161:THR:HB	1.74	0.52
1:A5:109:VAL:H	1:A5:161:THR:HB	1.74	0.52
1:BE:110:GLY:H	1:BF:242:ASN:HB2	1.75	0.52
4:FH:25:PHE:CD2	4:FH:26:TYR:CE1	2.98	0.52
4:F9:25:PHE:CD2	4:F9:26:TYR:CE1	2.98	0.52
4:FO:25:PHE:CD2	4:FO: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
3:EA:169:VAL:O	3:EA:169:VAL:HG12	2.09	0.52
3:DW:169:VAL:HG12	3:DW:169:VAL:O	2.09	0.52
2:CE:228:ASN:ND2	3:DA:140:ALA:HB2	2.24	0.52
1:AP:108:PRO:HA	1:AP:161:THR:HG21	1.92	0.52
2:CV:87:LYS:HG3	2:CV:142:TRP:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:87:LYS:HG3	2:CE:142:TRP:CD2	2.45	0.52
2:CJ:87:LYS:HG3	2:CJ:142:TRP:CD2	2.45	0.52
2:CC:24:ILE:HG23	3:ED:145:VAL:HB	227.17	0.51
2:CW:115:ASN:OD1	3:DS:119:LYS:CD	245.14	0.51
2:CD:115:ASN:C	3:D4:119:LYS:HZ3	151.58	0.51
2:CA:24:ILE:HG23	3:DL:145:VAL:HB	242.12	0.51
2:C9:24:ILE:HG23	3:DL:145:VAL:HB	83.66	0.51
2:C3:115:ASN:OD1	3:DU:119:LYS:CD	2.58	0.51
2:CB:115:ASN:OD1	3:DF:119:LYS:CD	145.28	0.51
2:CS:24:ILE:HG23	3:EA:145:VAL:HB	149.11	0.51
2:CF:115:ASN:OD1	3:D6:119:LYS:CD	2.58	0.51
2:CE:49:ASP:CB	3:DA:161:SER:HB3	2.40	0.51
3:EB:100:TYR:CZ	3:EB:167:MET:HB2	2.45	0.51
2:CC:104:VAL:HG22	2:CC:222:VAL:HG13	1.93	0.51
2:CR:104:VAL:HG22	2:CR:222:VAL:HG13	1.93	0.51
2:CM:104:VAL:HG22	2:CM:222:VAL:HG13	1.93	0.51
3:DZ:100:TYR:CZ	3:DZ:167:MET:HB2	2.45	0.51
3:EA:100:TYR:CZ	3:EA:167:MET:HB2	2.45	0.51
2:CX:104:VAL:HG22	2:CX:222:VAL:HG13	1.92	0.51
2:C6:49:ASP:CB	3:D7:161:SER:HB3	2.40	0.51
2:CI:104:VAL:HG22	2:CI:222:VAL:HG13	1.92	0.51
1:A8:212:ARG:HG2	1:A8:214:PRO:HD3	1.91	0.51
1:AQ:121:LEU:CD2	1:AR:206:GLY:HA3	2.39	0.51
1:BE:88:PHE:HE1	1:BE:205:GLY:C	2.14	0.51
1:BG:88:PHE:HE1	1:BG:205:GLY:C	2.13	0.51
1:AC:157:SER:CB	3:DE:24:PRO:HA	39.09	0.51
1:AN:157:SER:CB	3:DN:24:PRO:HA	2.36	0.51
3:D1:42:ASN:HD22	3:D1:44:ILE:N	2.08	0.51
1:BH:37:PHE:HA	1:BH:211:TYR:O	2.10	0.51
1:A0:88:PHE:HE1	1:A0:205:GLY:C	2.13	0.51
1:A0:37:PHE:HA	1:A0:211:TYR:O	2.10	0.51
1:A1:88:PHE:HE1	1:A1:205:GLY:C	2.14	0.51
1:A1:40:VAL:HG22	1:A1:211:TYR:CE1	2.46	0.51
1:A0:206:GLY:HA3	1:AZ:121:LEU:CD2	2.39	0.51
1:AJ:186:TRP:O	1:AJ:187:LEU:HB3	2.09	0.51
1:A6:88:PHE:HE1	1:A6:205:GLY:C	2.14	0.51
1:AA:184:TYR:HE2	2:CA:139:ALA:CB	2.23	0.51
1:AJ:184:TYR:HE2	2:CL:139:ALA:CB	264.34	0.51
1:AL:184:TYR:HE2	2:CL:139:ALA:CB	2.23	0.51
1:AB:50:GLY:O	1:AB:131:GLN:NE2	2.43	0.51
1:AT:48:LEU:O	1:AT:131:GLN:NE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:50:GLY:O	1:AD:131:GLN:NE2	2.43	0.51
2:CB:52:THR:OG1	2:CE:57:THR:HB	126.51	0.51
2:C0:57:THR:HB	2:CP:52:THR:OG1	2.11	0.51
1:AV:48:LEU:O	1:AV:131:GLN:NE2	2.43	0.51
2:C3:57:THR:HB	2:CY:52:THR:OG1	2.11	0.51
1:BC:48:LEU:O	1:BC:131:GLN:NE2	2.43	0.51
2:CY:152:TYR:CE1	3:DY:60:PRO:HD3	2.45	0.51
2:C8:73:GLN:HA	2:C8:73:GLN:NE2	2.17	0.51
2:CN:152:TYR:CB	2:CN:197:LEU:HD22	2.40	0.51
3:DN:108:PHE:HA	3:DN:205:LEU:O	2.09	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	264.15	0.51
2:CT:152:TYR:CB	2:CT:197:LEU:HD22	2.40	0.51
3:DT:108:PHE:HA	3:DT:205:LEU:O	2.09	0.51
2:CL:152:TYR:CB	2:CL:197:LEU:HD22	2.40	0.51
2:CG:152:TYR:CB	2:CG:197:LEU:HD22	2.40	0.51
2:CW:152:TYR:CB	2:CW:197:LEU:HD22	2.40	0.51
3:DS:108:PHE:HA	3:DS:205:LEU:O	2.09	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
1:BI:76:THR:O	1:BI:169:VAL:HG23	2.10	0.51
2:CX:186:LEU:O	2:CX:186:LEU:HD23	2.11	0.51
2:CO:186:LEU:O	2:CO:186:LEU:HD23	2.11	0.51
3:DK:31:VAL:HG12	4:FK:35:ASP:HA	1.92	0.51
3:DS:31:VAL:HG12	4:FS:35:ASP:HA	1.92	0.51
3:DT:31:VAL:HB	4:FT:34:ILE:O	2.10	0.51
3:EA:31:VAL:HG12	4:FT:35:ASP:HA	165.97	0.51
3:D5:31:VAL:HG12	4:F5:35:ASP:HA	1.92	0.51
2:CF:124:LEU:HD12	2:CF:163:LEU:CD1	2.40	0.51
3:EB:56:ILE:HD13	3:EB:206:VAL:HG11	1.91	0.51
2:CR:124:LEU:HD12	2:CR:163:LEU:CD1	2.40	0.51
2:CE:124:LEU:HD12	2:CE:163:LEU:CD1	2.40	0.51
2:CJ:124:LEU:HD12	2:CJ:163:LEU:CD1	2.40	0.51
2:CO:124:LEU:HD12	2:CO:163:LEU:CD1	2.40	0.51
1:BH:86:ILE:H	1:BH:86:ILE:CD1	2.23	0.51
2:CD:124:LEU:HD12	2:CD:163:LEU:HD12	1.92	0.51
2:CX:124:LEU:HD12	2:CX:163:LEU:CD1	2.40	0.51
3:D3:31:VAL:HG12	4:F3:35:ASP:HA	1.92	0.51
2:CI:124:LEU:HD12	2:CI:163:LEU:CD1	2.40	0.51
1:AB:239:PHE:CD1	3:DB:170:TYR:CD2	2.96	0.51
1:BC:110:GLY:H	1:BD:242:ASN:HB2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:108:PRO:HA	1:AV:161:THR:HG21	1.92	0.51
1:AX:76:THR:O	1:AX:169:VAL:HG23	2.10	0.51
1:AW:110:GLY:H	1:AX:242:ASN:HB2	1.75	0.51
1:A0:242:ASN:HB2	1:AZ:110:GLY:H	1.75	0.51
4:FM:25:PHE:CD2	4:FM:26:TYR:CE1	2.98	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
3:DE:169:VAL:HG12	3:DE:169:VAL:O	2.09	0.51
3:D0:169:VAL:O	3:D0:169:VAL:HG12	2.09	0.51
2:CO:228:ASN:ND2	3:DP:140:ALA:HB2	23.15	0.51
2:CU:87:LYS:HG3	2:CU:142:TRP:CD2	2.45	0.51
2:CD:87:LYS:HG3	2:CD:142:TRP:CD2	2.45	0.51
2:CX:87:LYS:HG3	2:CX:142:TRP:CD2	2.45	0.51
1:A3:55:HIS:O	1:A3:194:SER:CB	2.56	0.51
1:BD:55:HIS:O	1:BD:194:SER:CB	2.56	0.51
2:C9:87:LYS:HG3	2:C9:142:TRP:CD2	2.45	0.51
2:C8:87:LYS:HG3	2:C8:142:TRP:CD2	2.45	0.51
2:CI:115:ASN:OD1	3:DJ:119:LYS:CD	66.01	0.51
2:CQ:24:ILE:HG23	3:DY:145:VAL:HB	113.02	0.51
2:C0:24:ILE:HG23	3:DQ:145:VAL:HB	1.92	0.51
2:CD:49:ASP:CB	3:DE:161:SER:HB3	2.40	0.51
2:CO:104:VAL:HG22	2:CO:222:VAL:HG13	1.93	0.51
2:CN:104:VAL:HG22	2:CN:222:VAL:HG13	1.93	0.51
3:DV:100:TYR:CZ	3:DV:167:MET:HB2	2.45	0.51
2:CT:104:VAL:HG22	2:CT:222:VAL:HG13	1.93	0.51
2:C8:104:VAL:HG22	2:C8:222:VAL:HG13	1.92	0.51
2:CL:104:VAL:HG22	2:CL:222:VAL:HG13	1.92	0.51
2:C2:104:VAL:HG22	2:C2:222:VAL:HG13	1.92	0.51
2:CA:104:VAL:HG22	2:CA:222:VAL:HG13	1.93	0.51
2:CJ:104:VAL:HG22	2:CJ:222:VAL:HG13	1.92	0.51
1:AA:37:PHE:HA	1:AA:211:TYR:O	2.10	0.51
1:AD:88:PHE:HE1	1:AD:205:GLY:C	2.14	0.51
1:AE:88:PHE:HE1	1:AE:205:GLY:C	2.13	0.51
1:AF:40:VAL:HG22	1:AF:211:TYR:CE1	2.46	0.51
1:AG:106:TRP:O	1:AG:139:SER:HB2	2.11	0.51
1:AG:40:VAL:HG22	1:AG:211:TYR:CE1	2.46	0.51
1:AH:206:GLY:HA3	1:AL:121:LEU:CD2	293.63	0.51
1:AI:88:PHE:HE1	1:AI:205:GLY:C	2.14	0.51
1:AI:40:VAL:HG22	1:AI:211:TYR:CE1	2.46	0.51
1:AJ:121:LEU:CD2	1:AK:206:GLY:HA3	291.49	0.51
1:AT:212:ARG:O	1:AT:214:PRO:HD2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:40:VAL:HG22	1:AW:211:TYR:CE1	2.46	0.51
1:BC:106:TRP:O	1:BC:139:SER:HB2	2.11	0.51
1:AJ:157:SER:CB	3:DL:24:PRO:HA	246.40	0.51
3:D7:42:ASN:HD22	3:D7:44:ILE:N	2.08	0.51
1:A6:106:TRP:O	1:A6:139:SER:HB2	2.11	0.51
1:A7:88:PHE:HE1	1:A7:205:GLY:C	2.14	0.51
1:AV:40:VAL:HG22	1:AV:211:TYR:CE1	2.46	0.51
1:BH:88:PHE:HE1	1:BH:205:GLY:C	2.14	0.51
1:AY:40:VAL:HG22	1:AY:211:TYR:CE1	2.46	0.51
1:A0:186:TRP:O	1:A0:187:LEU:HB3	2.09	0.51
1:AP:186:TRP:O	1:AP:187:LEU:HB3	2.09	0.51
1:AU:184:TYR:HE2	2:CV:139:ALA:CB	2.23	0.51
1:AA:184:TYR:HE2	2:CC:139:ALA:CB	105.56	0.51
1:AI:184:TYR:HE2	2:CI:139:ALA:CB	2.23	0.51
1:AJ:184:TYR:HE2	2:CJ:139:ALA:CB	2.23	0.51
1:A3:48:LEU:O	1:A3:131:GLN:NE2	2.43	0.51
2:C8:52:THR:OG1	2:CD:57:THR:HB	116.58	0.51
1:AN:48:LEU:O	1:AN:131:GLN:NE2	2.43	0.51
1:AZ:48:LEU:O	1:AZ:131:GLN:NE2	2.43	0.51
2:CB:57:THR:HB	2:CE:52:THR:OG1	120.64	0.51
2:C7:57:THR:HB	2:CL:52:THR:OG1	127.26	0.51
1:BI:50:GLY:O	1:BI:131:GLN:NE2	2.43	0.51
2:C8:57:THR:HB	2:CD:52:THR:OG1	130.58	0.51
2:CI:57:THR:HB	2:CN:52:THR:OG1	214.54	0.51
2:C0:52:THR:OG1	2:CP:57:THR:HB	2.11	0.51
1:AI:50:GLY:O	1:AI:131:GLN:NE2	2.43	0.51
1:BA:48:LEU:O	1:BA:131:GLN:NE2	2.43	0.51
2:C9:226:LEU:CD2	3:DA:126:PRO:HG2	221.52	0.51
3:DV:108:PHE:HA	3:DV:205:LEU:O	2.09	0.51
2:CX:152:TYR:CE1	3:DX:60:PRO:HD3	2.45	0.51
3:DE:60:PRO:O	3:DE:61:TYR:HB3	2.11	0.51
2:CW:152:TYR:CE1	3:DW:60:PRO:HD3	2.45	0.51
1:AS:76:THR:O	1:AS:169:VAL:HG23	2.10	0.51
2:CF:186:LEU:HD23	2:CF:186:LEU:O	2.11	0.51
2:CA:186:LEU:O	2:CA:186:LEU:HD23	2.11	0.51
2:C0:186:LEU:O	2:C0:186:LEU:HD23	2.11	0.51
2:C2:186:LEU:HD23	2:C2:186:LEU:O	2.11	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:DH:31:VAL:HB	4:FH:34:ILE:O	2.10	0.51
3:EB:31:VAL:HG12	4:FU:35:ASP:HA	216.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DP:31:VAL:HG12	4:FP:35:ASP:HA	1.92	0.51
2:CV:186:LEU:O	2:CV:186:LEU:HD23	2.11	0.51
2:CG:124:LEU:HD12	2:CG:163:LEU:CD1	2.40	0.51
2:CB:186:LEU:HD23	2:CB:186:LEU:O	2.11	0.51
2:CA:124:LEU:HD12	2:CA:163:LEU:CD1	2.40	0.51
2:CU:124:LEU:HD12	2:CU:163:LEU:HD12	1.92	0.51
2:CU:124:LEU:HD12	2:CU:163:LEU:CD1	2.40	0.51
3:D1:31:VAL:HB	4:F1:34:ILE:O	2.10	0.51
2:CV:124:LEU:HD12	2:CV:163:LEU:CD1	2.40	0.51
3:D1:56:ILE:HD13	3:D1:206:VAL:HG11	1.91	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:C6:124:LEU:HD12	2:C6:163:LEU:CD1	2.40	0.51
3:D7:56:ILE:HD13	3:D7:206:VAL:HG11	1.91	0.51
2:CT:124:LEU:HD12	2:CT:163:LEU:CD1	2.40	0.51
3:DE:56:ILE:HD13	3:DE:206:VAL:HG11	1.91	0.51
3:DY:56:ILE:HD13	3:DY:206:VAL:HG11	1.91	0.51
3:DW:56:ILE:HD13	3:DW:206:VAL:HG11	1.91	0.51
2:CD:124:LEU:HD12	2:CD:163:LEU:CD1	2.40	0.51
1:AZ:86:ILE:CD1	1:AZ:86:ILE:H	2.23	0.51
1:BI:86:ILE:CD1	1:BI:86:ILE:H	2.23	0.51
3:DX:56:ILE:HD13	3:DX:206:VAL:HG11	1.91	0.51
2:CB:124:LEU:HD12	2:CB:163:LEU:CD1	2.40	0.51
1:BI:239:PHE:CD1	3:EE:170:TYR:CD2	2.96	0.51
1:BE:76:THR:O	1:BE:169:VAL:HG23	2.10	0.51
1:BC:109:VAL:H	1:BC:161:THR:HB	1.74	0.51
1:AH:110:GLY:H	1:AI:242:ASN:HB2	1.75	0.51
1:AJ:110:GLY:H	1:AK:242:ASN:HB2	270.01	0.51
1:BF:109:VAL:H	1:BF:161:THR:HB	1.74	0.51
1:A4:109:VAL:H	1:A4:161:THR:HB	1.74	0.51
1:A3:242:ASN:HB2	1:A7:110:GLY:H	1.75	0.51
1:AY:108:PRO:HA	1:AY:161:THR:HG21	1.92	0.51
2:C2:87:LYS:HG3	2:C2:142:TRP:CD2	2.45	0.51
2:CN:87:LYS:HG3	2:CN:142:TRP:CD2	2.45	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:CH:24:ILE:HG23	3:DN:145:VAL:HB	242.29	0.51
2:CJ:115:ASN:OD1	3:DA:119:LYS:CD	2.58	0.51
2:CL:24:ILE:HG23	3:DK:145:VAL:HB	110.29	0.51
2:CU:115:ASN:OD1	3:DG:119:LYS:CD	245.91	0.51
3:D9:100:TYR:CZ	3:D9:167:MET:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:103:SER:HB3	3:D9:159:PRO:CA	2.35	0.51
2:CF:104:VAL:HG22	2:CF:222:VAL:HG13	1.92	0.51
2:CQ:104:VAL:HG22	2:CQ:222:VAL:HG13	1.92	0.51
2:CB:104:VAL:HG22	2:CB:222:VAL:HG13	1.93	0.51
2:C4:104:VAL:HG22	2:C4:222:VAL:HG13	1.93	0.51
2:C7:104:VAL:HG22	2:C7:222:VAL:HG13	1.93	0.51
2:C5:104:VAL:HG22	2:C5:222:VAL:HG13	1.92	0.51
1:AA:40:VAL:HG22	1:AA:211:TYR:CE1	2.46	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:AJ:106:TRP:O	1:AJ:139:SER:HB2	2.11	0.51
1:AL:40:VAL:HG22	1:AL:211:TYR:CE1	2.45	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:AT:88:PHE:HE1	1:AT:205:GLY:C	2.14	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:AX:88:PHE:HE1	1:AX:205:GLY:C	2.14	0.51
1:AX:40:VAL:HG22	1:AX:211:TYR:CE1	2.46	0.51
1:BA:88:PHE:HE1	1:BA:205:GLY:C	2.14	0.51
1:BF:37:PHE:HA	1:BF:211:TYR:O	2.10	0.51
1:AG:157:SER:CB	3:DI:24:PRO:HA	39.10	0.51
3:D8:42:ASN:HD22	3:D8:44:ILE:N	2.08	0.51
3:D0:42:ASN:HD22	3:D0:44:ILE:N	2.08	0.51
1:A5:88:PHE:HE1	1:A5:205:GLY:C	2.14	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: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
2:CE:80:ILE:HD11	2:CE:132:TYR:OH	2.11	0.51
2:CO:80:ILE:HG23	2:CO:82:PRO:HD3	1.91	0.51
2:CH:80:ILE:HG23	2:CH:82:PRO:HD3	1.91	0.51
2:C9:57:THR:HB	2:CK:52:THR:OG1	82.56	0.51
2:CC:57:THR:HB	2:CV:52:THR:OG1	130.58	0.51
2:CH:57:THR:HB	2:CM:52:THR:OG1	236.06	0.51
2:CI:52:THR:OG1	2:CN:57:THR:HB	214.54	0.51
1:AC:48:LEU:O	1:AC:131:GLN:NE2	2.43	0.51
1:AC:50:GLY:O	1:AC:131:GLN:NE2	2.43	0.51
1:AN:50:GLY:O	1:AN:131:GLN:NE2	2.43	0.51
1:AO:50:GLY:O	1:AO:131:GLN:NE2	2.43	0.51
2:C2:52:THR:OG1	2:CG:57:THR:HB	236.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CS:52:THR:OG1	2:CX:57:THR:HB	212.43	0.51
1:A2:48:LEU:O	1:A2:131:GLN:NE2	2.43	0.51
1:BH:48:LEU:O	1:BH:131:GLN:NE2	2.43	0.51
1:A4:50:GLY:O	1:A4:131:GLN:NE2	2.43	0.51
3:DM:60:PRO:O	3:DM:61:TYR:HB3	2.11	0.51
2:CH:152:TYR:CB	2:CH:197:LEU:HD22	2.40	0.51
2:CU:152:TYR:CE1	3:DU:60:PRO:HD3	2.45	0.51
3:DL:60:PRO:O	3:DL:61:TYR:HB3	2.11	0.51
2:CU:226:LEU:CD2	3:EC:126:PRO:HG2	251.91	0.51
1:AC:76:THR:O	1:AC:169:VAL:HG23	2.10	0.51
3:D9:60:PRO:O	3:D9:61:TYR:HB3	2.11	0.51
2:CK:152:TYR:CB	2:CK:197:LEU:HD22	2.40	0.51
2:C5:152:TYR:CB	2:C5:197:LEU:HD22	2.40	0.51
3:D4:108:PHE:HA	3:D4:205:LEU:O	2.09	0.51
2:CC:152:TYR:CB	2:CC:197:LEU:HD22	2.40	0.51
3:D6:60:PRO:O	3:D6:61:TYR:HB3	2.11	0.51
2:CU:186:LEU:HD23	2:CU:186:LEU:O	2.11	0.51
2:CN:186:LEU:O	2:CN:186:LEU:HD23	2.11	0.51
2:CY:186:LEU:HD23	2:CY:186:LEU:O	2.11	0.51
1:AS:184:TYR:HE2	2:CT:139:ALA:CB	2.23	0.51
3:DG:31:VAL:HG12	4:FG:35:ASP:HA	1.92	0.51
3:DE:31:VAL:HB	4:FE:34:ILE:O	2.10	0.51
3:DO:31:VAL:HG12	4:FO:35:ASP:HA	1.92	0.51
2:CS:186:LEU:HD23	2:CS:186:LEU:O	2.11	0.51
3:DD:31:VAL:HG12	4:FD:35:ASP:HA	1.92	0.51
3:DN:31:VAL:HB	4:FN:34:ILE:O	2.10	0.51
3:DF:31:VAL:HG12	4:FF:35:ASP:HA	1.92	0.51
3:DY:31:VAL:HB	4:FY:34:ILE:O	2.10	0.51
3:DW:31:VAL:HB	4:FW:34:ILE:O	2.10	0.51
2:C1:124:LEU:HD12	2:C1:163:LEU:CD1	2.40	0.51
2:C3:124:LEU:HD12	2:C3:163:LEU:CD1	2.40	0.51
2:C3:186:LEU:HD23	2:C3:186:LEU:O	2.11	0.51
3:DR:31:VAL:HB	4:FR:34:ILE:O	2.10	0.51
1:AY:86:ILE:CD1	1:AY:86:ILE:H	2.23	0.51
2:CM:124:LEU:HD12	2:CM:163:LEU:CD1	2.40	0.51
3:EE:56:ILE:HD13	3:EE:206:VAL:HG11	1.91	0.51
1:AJ:86:ILE:CD1	1:AJ:86:ILE:H	2.23	0.51
1:AX:184:TYR:HE2	2:CY:139:ALA:CB	2.23	0.51
1:A8:104:VAL:HG22	1:A8:197:LEU:HD21	1.91	0.51
1:AH:108:PRO:HA	1:AH:161:THR:HG21	1.92	0.51
1:AA:242:ASN:HB2	1:AN:110:GLY:H	251.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:109:VAL:H	1:AW:161:THR:HB	1.74	0.51
4:FV:25:PHE:CD2	4:FV:26:TYR:CE1	2.98	0.51
3:D4:169:VAL:HG12	3:D4:169:VAL:O	2.09	0.51
3:D3:169:VAL:HG12	3:D3:169:VAL:O	2.09	0.51
2:CA:87:LYS:HG3	2:CA:142:TRP:CD2	2.45	0.51
3:DQ:102:GLY:HA3	3:DQ:214:PHE:HA	1.93	0.51
2:CD:115:ASN:OD1	3:D7:119:LYS:CD	2.57	0.51
2:CA:24:ILE:HG23	3:DW:145:VAL:HB	1.92	0.51
2:CB:24:ILE:HG23	3:DF:145:VAL:HB	135.02	0.51
2:CP:115:ASN:OD1	3:D1:119:LYS:CD	2.58	0.51
2:C9:49:ASP:CB	3:DA:161:SER:HB3	208.50	0.51
3:DK:103:SER:HB3	3:DK:159:PRO:CA	2.35	0.51
2:CS:49:ASP:CB	3:DT:161:SER:HB3	2.40	0.51
2:C2:49:ASP:CB	3:D3:161:SER:HB3	2.40	0.51
2:C1:104:VAL:HG22	2:C1:222:VAL:HG13	1.92	0.51
2:CD:104:VAL:HG22	2:CD:222:VAL:HG13	1.92	0.51
2:C3:104:VAL:HG22	2:C3:222:VAL:HG13	1.93	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:40:VAL:HG22	1:AC:211:TYR:CE1	2.46	0.51
1:AH:40:VAL:HG22	1:AH:211:TYR:CE1	2.46	0.51
1:AL:106:TRP:O	1:AL:139:SER:HB2	2.11	0.51
1:AP:106:TRP:O	1:AP:139:SER:HB2	2.11	0.51
1:AP:37:PHE:HA	1:AP:211:TYR:O	2.10	0.51
1:AP:212:ARG:O	1:AP:214:PRO:HD2	2.09	0.51
1:BD:40:VAL:HG22	1:BD:211:TYR:CE1	2.46	0.51
1:BE:206:GLY:HA3	1:BI:121:LEU:CD2	2.39	0.51
1:BB:157:SER:CB	3:DQ:24:PRO:HA	129.70	0.51
3:EA:42:ASN:HD22	3:EA:44:ILE:N	2.08	0.51
1:A3:40:VAL:HG22	1:A3:211:TYR:CE1	2.46	0.51
1:AZ:88:PHE:HE1	1:AZ:205:GLY:C	2.14	0.51
2:CN:80:ILE:HD11	2:CN:132:TYR:OH	2.11	0.51
1:A7:181:LYS:O	1:A7:182:ALA:HB2	2.11	0.51
1:AL:50:GLY:O	1:AL:131:GLN:NE2	2.43	0.51
1:BD:50:GLY:O	1:BD:131:GLN:NE2	2.43	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:CR:52:THR:OG1	2:CW:57:THR:HB	205.43	0.51
2:C4:57:THR:HB	2:CU:52:THR:OG1	236.21	0.51
1:AE:50:GLY:O	1:AE:131:GLN:NE2	2.43	0.51
2:CB:57:THR:HB	2:CS:52:THR:OG1	236.06	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:52:THR:OG1	2:CV:57:THR:HB	2.11	0.51
2:C2:57:THR:HB	2:CG:52:THR:OG1	236.21	0.51
2:CQ:57:THR:HB	2:CX:52:THR:OG1	121.27	0.51
2:CS:57:THR:HB	2:CX:52:THR:OG1	217.11	0.51
2:CM:152:TYR:CB	2:CM:197:LEU:HD22	2.40	0.51
2:CY:152:TYR:CB	2:CY:197:LEU:HD22	2.40	0.51
2:CH:152:TYR:CE1	3:DH:60:PRO:HD3	2.45	0.51
2:CM:226:LEU:CD2	3:DN:126:PRO:HG2	2.36	0.51
2:CJ:152:TYR:CB	2:CJ:197:LEU:HD22	2.40	0.51
3:DX:60:PRO:O	3:DX:61:TYR:HB3	2.11	0.51
3:EE:60:PRO:O	3:EE:61:TYR:HB3	2.11	0.51
2:C1:226:LEU:CD2	3:D2:126:PRO:HG2	2.36	0.51
3:DO:60:PRO:O	3:DO:61:TYR:HB3	2.11	0.51
3:DC:60:PRO:O	3:DC:61:TYR:HB3	2.11	0.51
1:A4:76:THR:O	1:A4:169:VAL:HG23	2.10	0.51
2:C6:186:LEU:O	2:C6:186:LEU:HD23	2.11	0.51
2:CI:186:LEU:HD23	2:CI:186:LEU:O	2.11	0.51
3:DC:31:VAL:HG12	4:FC:35:ASP:HA	1.92	0.51
3:DN:31:VAL:HG12	4:FN:35:ASP:HA	1.92	0.51
3:DZ:31:VAL:HG12	4:FZ:35:ASP:HA	1.92	0.51
2:CW:186:LEU:HD23	2:CW:186:LEU:O	2.11	0.51
3:D5:31:VAL:HB	4:F5:34:ILE:O	2.10	0.51
3:DG:75:GLN:HG3	3:DG:184:GLN:HG2	1.93	0.51
3:DK:75:GLN:HG3	3:DK:184:GLN:HG2	1.93	0.51
2:CE:186:LEU:O	2:CE:186:LEU:HD23	2.11	0.51
1:AO:86:ILE:H	1:AO:86:ILE:CD1	2.23	0.51
2:CN:124:LEU:HD12	2:CN:163:LEU:CD1	2.40	0.51
1:A5:86:ILE:CD1	1:A5:86:ILE:H	2.22	0.51
1:BE:106:TRP:O	1:BE:139:SER:HB2	2.11	0.51
1:BD:76:THR:O	1:BD:169:VAL:HG23	2.10	0.51
1:AI:110:GLY:H	1:AJ:242:ASN:HB2	1.75	0.51
1:AM:242:ASN:HB2	1:BD:110:GLY:H	248.45	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:BB:109:VAL:H	1:BB:161:THR:HB	1.74	0.51
4:FU:25:PHE:CD2	4:FU:26:TYR:CE1	2.98	0.51
3:DL:169:VAL:O	3:DL:169:VAL:HG12	2.09	0.51
3:DT:169:VAL:O	3:DT:169:VAL:HG12	2.09	0.51
1:A5:107:PHE:HE1	1:A5:196:LEU:HB2	1.76	0.51
3:DX:102:GLY:HA3	3:DX:214:PHE:HA	1.93	0.51
2:CR:115:ASN:CA	3:DI:119:LYS:HZ3	161.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:24:ILE:HG23	3:EB:145:VAL:HB	1.92	0.51
2:CE:24:ILE:HG23	3:DF:145:VAL:HB	1.92	0.51
2:CP:115:ASN:OD1	3:D0:119:LYS:CD	90.36	0.51
2:CF:24:ILE:HG23	3:DV:145:VAL:HB	180.13	0.51
2:CV:104:VAL:HG22	2:CV:222:VAL:HG13	1.93	0.51
2:CX:49:ASP:CB	3:DY:161:SER:HB3	2.39	0.51
1:A8:37:PHE:HA	1:A8:211:TYR:O	2.10	0.51
1:AA:210:ARG:HD2	3:DC:14:PHE:CZ	37.55	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:AH:106:TRP:O	1:AH:139:SER:HB2	2.11	0.51
1:AH:88:PHE:HE1	1:AH:205:GLY:C	2.14	0.51
1:AJ:40:VAL:HG22	1:AJ:211:TYR:CE1	2.46	0.51
1:AK:88:PHE:HE1	1:AK:205:GLY:C	2.14	0.51
1:AK:40:VAL:HG22	1:AK:211:TYR:CE1	2.46	0.51
1:AM:40:VAL:HG22	1:AM:211:TYR:CE1	2.46	0.51
1:AX:37:PHE:HA	1:AX:211:TYR:O	2.10	0.51
1:BA:40:VAL:HG22	1:BA:211:TYR:CE1	2.46	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:BE:40:VAL:HG22	1:BE:211:TYR:CE1	2.46	0.51
1:BI:40:VAL:HG22	1:BI:211:TYR:CE1	2.46	0.51
1:A7:106:TRP:O	1:A7:139:SER:HB2	2.11	0.51
1:BH:40:VAL:HG22	1:BH:211:TYR:CE1	2.46	0.51
1:A3:99:GLU:OE2	1:A3:101:PHE:HE1	1.92	0.51
1:A1:212:ARG:O	1:A1:214:PRO:HD2	2.09	0.51
1:BG:186:TRP:O	1:BG:187:LEU:HB3	2.09	0.51
2:CD:209:VAL:N	2:CD:210:PRO:CD	2.68	0.51
2:CV:80:ILE:HD11	2:CV:132:TYR:OH	2.11	0.51
2:CB:80:ILE:HD11	2:CB:132:TYR:OH	2.11	0.51
2:C4:80:ILE:HD11	2:C4:132:TYR:OH	2.11	0.51
2:CA:57:THR:HB	2:CV:52:THR:OG1	2.11	0.51
2:CF:52:THR:OG1	2:CU:57:THR:HB	205.15	0.51
2:C6:57:THR:HB	2:CD:52:THR:OG1	2.11	0.51
2:CA:52:THR:OG1	2:CK:57:THR:HB	236.21	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
2:CO:52:THR:OG1	2:CT:57:THR:HB	2.11	0.51
1:AF:50:GLY:O	1:AF:131:GLN:NE2	2.43	0.51
2:CP:80:ILE:HD11	2:CP:132:TYR:OH	2.11	0.51
1:AK:50:GLY:O	1:AK:131:GLN:NE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:52:THR:OG1	2:CY:57:THR:HB	2.11	0.51
2:CE:226:LEU:CD2	3:DA:126:PRO:HG2	2.36	0.51
2:C1:73:GLN:NE2	2:C1:73:GLN:HA	2.17	0.51
3:DF:60:PRO:O	3:DF:61:TYR:HB3	2.11	0.51
3:EB:108:PHE:HA	3:EB:205:LEU:O	2.09	0.51
3:EA:60:PRO:O	3:EA:61:TYR:HB3	2.11	0.51
2:CU:226:LEU:CD2	3:DV:126:PRO:HG2	2.36	0.51
3:DR:60:PRO:O	3:DR:61:TYR:HB3	2.11	0.51
2:C9:152:TYR:CE1	3:D9:60:PRO:HD3	2.45	0.51
3:DD:60:PRO:O	3:DD:61:TYR:HB3	2.11	0.51
2:C7:186:LEU:HD23	2:C7:186:LEU:O	2.11	0.51
3:DA:31:VAL:HB	4:FA:34:ILE:O	2.10	0.51
3:DJ:31:VAL:HG12	4:FJ:35:ASP:HA	1.92	0.51
1:AQ:184:TYR:HE2	2:CQ:139:ALA:CB	2.23	0.51
3:DX:31:VAL:HG12	4:FX:35:ASP:HA	1.92	0.51
2:C4:186:LEU:HD23	2:C4:186:LEU:O	2.11	0.51
3:DV:56:ILE:HD13	3:DV:206:VAL:HG11	1.91	0.51
3:EC:56:ILE:HD13	3:EC:206:VAL:HG11	1.91	0.51
3:D4:31:VAL:HB	4:F4:34:ILE:O	2.10	0.51
3:D0:56:ILE:HD13	3:D0:206:VAL:HG11	1.91	0.51
3:DO:75:GLN:HG3	3:DO:184:GLN:HG2	1.93	0.51
3:EA:56:ILE:HD13	3:EA:206:VAL:HG11	1.91	0.51
2:CU:135:THR:HB	2:CU:139:ALA:CA	2.41	0.51
1:AR:184:TYR:HE2	2:CR:139:ALA:CB	2.23	0.51
2:CQ:124:LEU:HD12	2:CQ:163:LEU:CD1	2.40	0.51
3:EE:75:GLN:HG3	3:EE:184:GLN:HG2	1.93	0.51
1:AX:86:ILE:H	1:AX:86:ILE:CD1	2.23	0.51
1:A2:86:ILE:H	1:A2:86:ILE:CD1	2.23	0.51
1:A2:239:PHE:CD1	3:D3:170:TYR:CD2	2.96	0.51
1:AP:104:VAL:HG22	1:AP:197:LEU:HD21	1.90	0.51
1:BC:104:VAL:HG22	1:BC:197:LEU:HD21	1.90	0.51
1:AH:109:VAL:HG22	1:AH:191:HIS:CD2	2.46	0.51
1:BA:109:VAL:HG22	1:BA:191:HIS:CD2	2.46	0.51
1:AO:109:VAL:HG22	1:AO:191:HIS:CD2	2.46	0.51
1:AO:242:ASN:HB2	1:AR:110:GLY:H	158.87	0.51
1:AU:108:PRO:HA	1:AU:161:THR:HG21	1.92	0.51
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:AT:109:VAL:HG22	1:AT:191:HIS:CD2	2.46	0.51
4:F3:25:PHE:CD2	4:F3:26:TYR:CE1	2.98	0.51
1:AF:107:PHE:HE1	1:AF:196:LEU:HB2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:107:PHE:HE1	1:AO:196:LEU:HB2	1.76	0.51
1:AA:107:PHE:HE1	1:AA:196:LEU:HB2	1.76	0.51
1:AP:109:VAL:HG22	1:AP:191:HIS:CD2	2.46	0.51
3:DC:102:GLY:HA3	3:DC:214:PHE:HA	1.93	0.51
3:DM:102:GLY:HA3	3:DM:214:PHE:HA	1.93	0.51
2:CZ:87:LYS:HG3	2:CZ:142:TRP:CD2	2.45	0.51
2:CD:16:THR:HA	2:CD:24:ILE:O	2.11	0.51
1:AF:19:LEU:HD12	2:CG:48:SER:HB2	90.17	0.51
1:A8:19:LEU:HD12	2:CD:48:SER:HB2	150.56	0.51
1:AG:19:LEU:HD12	2:CF:48:SER:HB2	1.93	0.51
1:AO:19:LEU:HD12	2:CN:48:SER:HB2	1.93	0.51
1:AC:106:TRP:O	1:AC:139:SER:HB2	2.11	0.51
1:AE:106:TRP:O	1:AE:139:SER:HB2	2.11	0.51
1:AM:106:TRP:O	1:AM:139:SER:HB2	2.11	0.51
1:AP:40:VAL:HG22	1:AP:211:TYR:CE1	2.46	0.51
1:AQ:88:PHE:HE1	1:AQ:205:GLY:C	2.14	0.51
1:AU:40:VAL:HG22	1:AU:211:TYR:CE1	2.46	0.51
1:AX:106:TRP:O	1:AX: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:BA:210:ARG:HD2	3:DP:14:PHE:CZ	131.57	0.51
1:BI:210:ARG:HD2	3:EE:14:PHE:CZ	2.46	0.51
3:DL:42:ASN:HD22	3:DL:44:ILE:N	2.07	0.51
1:A7:40:VAL:HG22	1:A7:211:TYR:CE1	2.46	0.51
1:A7:157:SER:CB	3:D8:24:PRO:HA	2.35	0.51
3:DV:42:ASN:HD22	3:DV:44:ILE:N	2.08	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:AG:181:LYS:O	1:AG:182:ALA:HB2	2.11	0.51
1:AM:181:LYS:O	1:AM:182:ALA:HB2	2.11	0.51
2:CS:80:ILE:HD11	2:CS:132:TYR:OH	2.11	0.51
1:AL:181:LYS:O	1:AL:182:ALA:HB2	2.11	0.51
1:AP:48:LEU:O	1:AP:131:GLN:NE2	2.43	0.51
2:CC:57:THR:HB	2:CM:52:THR:OG1	144.66	0.51
1:BI:181:LYS:O	1:BI:182:ALA:HB2	2.11	0.51
1:BI:48:LEU:O	1:BI:131:GLN:NE2	2.43	0.51
2:C9:52:THR:OG1	2:CK:57:THR:HB	73.86	0.51
2:CH:52:THR:OG1	2:CM:57:THR:HB	236.06	0.51
2:C1:57:THR:HB	2:CN:52:THR:OG1	2.11	0.51
2:CI:57:THR:HB	2:CW:52:THR:OG1	2.11	0.51
2:CB:52:THR:OG1	2:CS:57:THR:HB	236.06	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:50:GLY:O	1:AQ:131:GLN:NE2	2.43	0.51
2:CS:226:LEU:CD2	3:DT:126:PRO:HG2	2.36	0.51
3:DW:60:PRO:O	3:DW:61:TYR:HB3	2.11	0.51
2:C4:152:TYR:CE1	3:D4:60:PRO:HD3	2.45	0.51
2:C1:152:TYR:CB	2:C1:197:LEU:HD22	2.40	0.51
1:A5:170:PHE:CD2	1:A5:222:ARG:CZ	2.87	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:C1:186:LEU:O	2:C1:186:LEU:HD23	2.11	0.51
2:CM:186:LEU:O	2:CM:186:LEU:HD23	2.11	0.51
1:BH:184:TYR:HE2	2:CW:139:ALA:CB	238.69	0.51
2:CZ:186:LEU:HD23	2:CZ:186:LEU:O	2.11	0.51
3:DQ:31:VAL:HB	4:FQ:34:ILE:O	2.10	0.51
2:CK:124:LEU:HD12	2:CK:163:LEU:CD1	2.40	0.51
3:DA:75:GLN:HG3	3:DA:184:GLN:HG2	1.93	0.51
3:DF:56:ILE:HD13	3:DF:206:VAL:HG11	1.91	0.51
3:D1:31:VAL:HG12	4:F1:35:ASP:HA	1.92	0.51
3:DW:31:VAL:HG12	4:FW:35:ASP:HA	1.92	0.51
2:C5:186:LEU:HD23	2:C5:186:LEU:O	2.11	0.51
1:A1:181:LYS:O	1:A1:182:ALA:HB2	2.11	0.51
2:CZ:124:LEU:HD12	2:CZ:163:LEU:CD1	2.40	0.51
3:DR:75:GLN:HG3	3:DR:184:GLN:HG2	1.93	0.51
3:D2:31:VAL:HB	4:F2:34:ILE:O	2.10	0.51
2:CH:186:LEU:O	2:CH:186:LEU:HD23	2.11	0.51
1:A2:181:LYS:O	1:A2:182:ALA:HB2	2.11	0.51
3:DE:75:GLN:HG3	3:DE:184:GLN:HG2	1.93	0.51
1:AT:181:LYS:O	1:AT:182:ALA:HB2	2.11	0.51
3:DQ:75:GLN:HG3	3:DQ:184:GLN:HG2	1.93	0.51
3:DD:75:GLN:HG3	3:DD:184:GLN:HG2	1.93	0.51
2:C0:135:THR:HB	2:C0:139:ALA:CA	2.41	0.51
1:BF:106:TRP:O	1:BF:139:SER:HB2	2.11	0.51
3:DZ:90:VAL:HG11	3:DZ:208:VAL:HG12	1.91	0.51
1:A8:76:THR:O	1:A8:169:VAL:HG23	2.10	0.51
1:BB:239:PHE:CD1	3:DQ:170:TYR:CD2	119.51	0.51
1:BC:109:VAL:HG22	1:BC:191:HIS:CD2	2.46	0.51
1:AF:110:GLY:H	1:AG:242:ASN:HB2	1.75	0.51
1:AU:109:VAL:H	1:AU:161:THR:HB	1.74	0.51
1:AK:109:VAL:HG22	1:AK:191:HIS:CD2	2.46	0.51
1:AQ:109:VAL:H	1:AQ:161:THR:HB	1.74	0.51
1:AZ:109:VAL:H	1:AZ:161:THR:HB	1.74	0.51
3:DZ:169:VAL:O	3:DZ:169:VAL:HG12	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:107:PHE:HE1	1:AR:196:LEU:HB2	1.76	0.51
1:BI:107:PHE:HE1	1:BI:196:LEU:HB2	1.76	0.51
1:A9:107:PHE:HE1	1:A9:196:LEU:HB2	1.76	0.51
1:AP:107:PHE:HE1	1:AP:196:LEU:HB2	1.76	0.51
1:A7:109:VAL:H	1:A7:161:THR:HB	1.74	0.51
1:AS:107:PHE:HE1	1:AS:196:LEU:HB2	1.76	0.51
1:BC:107:PHE:HE1	1:BC:196:LEU:HB2	1.76	0.51
3:DK:102:GLY:HA3	3:DK:214:PHE:HA	1.93	0.51
2:CR:87:LYS:HG3	2:CR:142:TRP:CD2	2.45	0.51
3:DE:102:GLY:HA3	3:DE:214:PHE:HA	1.93	0.51
3:DB:102:GLY:HA3	3:DB:214:PHE:HA	1.93	0.51
2:C0:87:LYS:HG3	2:C0:142:TRP:CD2	2.45	0.51
3:DJ:102:GLY:HA3	3:DJ:214:PHE:HA	1.93	0.51
2:CJ:24:ILE:HG23	3:DM:145:VAL:HB	219.07	0.51
2:CM:16:THR:HA	2:CM:24:ILE:O	2.11	0.51
2:CR:16:THR:HA	2:CR:24:ILE:O	2.11	0.51
2:CK:24:ILE:HG23	3:DB:145:VAL:HB	242.12	0.51
2:CX:24:ILE:HG23	3:DR:145:VAL:HB	141.44	0.51
3:DY:145:VAL:HG22	3:DY:188:LEU:HD12	1.91	0.51
2:C3:16:THR:HA	2:C3:24:ILE:O	2.11	0.51
2:CE:24:ILE:HG23	3:DC:145:VAL:HB	138.72	0.51
2:CS:16:THR:HA	2:CS:24:ILE:O	2.11	0.51
2:CE:115:ASN:C	3:DC:119:LYS:HZ3	152.79	0.51
2:CI:49:ASP:CB	3:DE:161:SER:HB3	121.36	0.51
3:DB:103:SER:HB3	3:DB:159:PRO:CA	2.35	0.51
1:A4:19:LEU:HD12	2:C4:48:SER:HB2	1.93	0.51
2:C4:49:ASP:CB	3:D5:161:SER:HB3	2.40	0.51
1:BE:19:LEU:HD12	2:CX:48:SER:HB2	150.56	0.51
1:A7:19:LEU:HD12	2:C7:48:SER:HB2	1.93	0.51
1:A5:19:LEU:HD12	2:C5:48:SER:HB2	1.93	0.51
1:AA:106:TRP:O	1:AA:139:SER:HB2	2.11	0.51
1:AF:106:TRP:O	1:AF:139:SER:HB2	2.11	0.51
1:AH:210:ARG:HD2	3:DJ:14:PHE:CZ	37.55	0.51
1:AJ:88:PHE:CE1	1:AJ:205:GLY:C	2.85	0.51
1:AJ:210:ARG:HD2	3:DL:14:PHE:CZ	267.80	0.51
1:AO:37:PHE:HA	1:AO:211:TYR:O	2.10	0.51
1:BG:88:PHE:CE1	1:BG:205:GLY:C	2.84	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:AB:210:ARG:HD2	3:DD:14:PHE:CZ	37.55	0.51
1:AO:157:SER:CB	3:DS:24:PRO:HA	106.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:157:SER:CB	3:DY:24:PRO:HA	2.36	0.51
3:DA:42:ASN:HD22	3:DA:44:ILE:N	2.08	0.51
3:EB:42:ASN:HD22	3:EB:44:ILE:N	2.07	0.51
3:D2:42:ASN:HD22	3:D2:44:ILE:N	2.08	0.51
1:AV:88:PHE:HE1	1:AV:205:GLY:C	2.14	0.51
1:BG:106:TRP:O	1:BG:139:SER:HB2	2.11	0.51
1:A4:106:TRP:O	1:A4:139:SER:HB2	2.11	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:AY:157:SER:CB	3:DZ:24:PRO:HA	2.36	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:AK:181:LYS:O	1:AK:182:ALA:HB2	2.11	0.51
2:CC:135:THR:HB	2:CC:139:ALA:CA	2.41	0.51
2:CC:80:ILE:HD11	2:CC:132:TYR:OH	2.11	0.51
2:CK:80:ILE:HD11	2:CK:132:TYR:OH	2.11	0.51
2:CO:80:ILE:HD11	2:CO:132:TYR:OH	2.11	0.51
1:AD:181:LYS:O	1:AD:182:ALA:HB2	2.11	0.51
2:CD:135:THR:HB	2:CD:139:ALA:CA	2.41	0.51
2:CQ:80:ILE:HD11	2:CQ:132:TYR:OH	2.11	0.51
1:BE:50:GLY:O	1:BE:131:GLN:NE2	2.43	0.51
2:CE:52:THR:OG1	2:CJ:57:THR:HB	2.11	0.51
2:C7:52:THR:OG1	2:CL:57:THR:HB	121.27	0.51
1:AP:181:LYS:O	1:AP:182:ALA:HB2	2.11	0.51
1:AH:50:GLY:O	1:AH:131:GLN:NE2	2.43	0.51
3:DP:60:PRO:O	3:DP:61:TYR:HB3	2.11	0.51
3:DH:60:PRO:O	3:DH:61:TYR:HB3	2.11	0.51
3:DV:60:PRO:O	3:DV:61:TYR:HB3	2.11	0.51
1:BD:170:PHE:CD2	1:BD:222:ARG:CZ	2.87	0.51
2:CR:152:TYR:CB	2:CR:197:LEU:HD22	2.41	0.51
3:DA:60:PRO:O	3:DA:61:TYR:HB3	2.11	0.51
2:C1:27:GLN:HG3	2:C1:28:GLY:H	1.73	0.51
2:C8:152:TYR:CB	2:C8:197:LEU:HD22	2.40	0.51
3:D8:60:PRO:O	3:D8:61:TYR:HB3	2.10	0.51
3:D0:60:PRO:O	3:D0:61:TYR:HB3	2.11	0.51
1:AQ:30:VAL:HG13	1:AQ:218:MET:HE2	1.92	0.51
2:CT:186:LEU:HD23	2:CT:186:LEU:O	2.11	0.51
2:CL:186:LEU:HD23	2:CL:186:LEU:O	2.11	0.51
3:DG:31:VAL:HB	4:FG:34:ILE:O	2.10	0.51
3:DH:31:VAL:HG12	4:FH:35:ASP:HA	1.92	0.51
1:BB:184:TYR:HE2	2:CQ:139:ALA:CB	132.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CQ:135:THR:HB	2:CQ:139:ALA:CA	2.41	0.51
3:EE:31:VAL:HB	4:FX:34:ILE:O	168.72	0.51
3:DU:75:GLN:HG3	3:DU:184:GLN:HG2	1.93	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
2:C5:135:THR:HB	2:C5:139:ALA:CA	2.41	0.51
3:D4:31:VAL:HG12	4:F4:35:ASP:HA	1.92	0.51
1:AB:86:ILE:H	1:AB:86:ILE:HD12	1.72	0.51
3:DT:75:GLN:HG3	3:DT:184:GLN:HG2	1.93	0.51
3:DW:75:GLN:HG3	3:DW:184:GLN:HG2	1.93	0.51
2:C6:135:THR:HB	2:C6:139:ALA:CA	2.41	0.51
1:A9:86:ILE:H	1:A9:86:ILE:CD1	2.23	0.51
3:DM:75:GLN:HG3	3:DM:184:GLN:HG2	1.93	0.51
2:CS:124:LEU:HD12	2:CS:163:LEU:CD1	2.40	0.51
2:CZ:135:THR:HB	2:CZ:139:ALA:CA	2.41	0.51
1:AX:181:LYS:O	1:AX:182:ALA:HB2	2.11	0.51
1:AM:239:PHE:CD1	3:DO:170:TYR:CD2	81.72	0.51
1:AC:239:PHE:CD1	3:DE:170:TYR:CD2	81.72	0.51
1:AV:239:PHE:CD1	3:DW:170:TYR:CD2	2.96	0.51
1:AV:109:VAL:HG22	1:AV:191:HIS:CD2	2.46	0.51
1:AB:109:VAL:HG22	1:AB:191:HIS:CD2	2.46	0.51
1:AG:109:VAL:HG22	1:AG:191:HIS:CD2	2.46	0.51
1:AL:109:VAL:HG22	1:AL:191:HIS:CD2	2.46	0.51
1:AN:109:VAL:HG22	1:AN:191:HIS:CD2	2.46	0.51
1:AU:109:VAL:HG22	1:AU:191:HIS:CD2	2.46	0.51
1:AD:109:VAL:HG22	1:AD:191:HIS:CD2	2.46	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
1:A9:110:GLY:H	1:AN:242:ASN:HB2	140.04	0.51
1:BH:108:PRO:HA	1:BH:161:THR:HG21	1.92	0.51
1:A6:110:GLY:H	1:A7:242:ASN:HB2	1.75	0.51
3:DV:169:VAL:O	3:DV:169:VAL:HG12	2.09	0.51
1:AL:107:PHE:HE1	1:AL:196:LEU:HB2	1.76	0.51
1:BB:107:PHE:HE1	1:BB:196:LEU:HB2	1.76	0.51
1:AJ:107:PHE:HE1	1:AJ:196:LEU:HB2	1.76	0.51
1:AD:107:PHE:HE1	1:AD:196:LEU:HB2	1.76	0.51
1:AM:107:PHE:HE1	1:AM:196:LEU:HB2	1.76	0.51
1:AR:109:VAL:HG22	1:AR:191:HIS:CD2	2.46	0.51
3:DH:102:GLY:HA3	3:DH:214:PHE:HA	1.93	0.51
3:EA:102:GLY:HA3	3:EA:214:PHE:HA	1.93	0.51
3:DL:102:GLY:HA3	3:DL:214:PHE:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:24:ILE:HG23	3:DN:145:VAL:HB	150.75	0.51
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:115:ASN:CA	3:DB:119:LYS:HZ3	257.22	0.51
2:CT:16:THR:HA	2:CT:24:ILE:O	2.11	0.51
2:CT:24:ILE:HG23	3:DH:145:VAL:HB	215.41	0.51
2:C6:16:THR:HA	2:C6:24:ILE:O	2.11	0.51
2:C4:16:THR:HA	2:C4:24:ILE:O	2.11	0.51
1:AD:19:LEU:HD12	2:CE:48:SER:HB2	90.17	0.51
3:D5:100:TYR:CZ	3:D5:167:MET:HB2	2.45	0.51
1:AB:121:LEU:CD2	1:AC:206:GLY:HA3	2.39	0.51
1:AB:88:PHE:CE1	1:AB:205:GLY:C	2.85	0.51
1:AC:88:PHE:CE1	1:AC:205:GLY:C	2.85	0.51
1:AC:88:PHE:HE1	1:AC:205:GLY:C	2.14	0.51
1:AE:88:PHE:CE1	1:AE:205:GLY:C	2.84	0.51
1:AN:106:TRP:O	1:AN:139:SER:HB2	2.11	0.51
1:AN:40:VAL:HG22	1:AN:211:TYR:CE1	2.46	0.51
1:AR:40:VAL:HG22	1:AR:211:TYR:CE1	2.46	0.51
1:AS:210:ARG:HD2	3:DT:14:PHE:CZ	2.46	0.51
1:AT:88:PHE:CE1	1:AT:205:GLY:C	2.85	0.51
1:AU:88:PHE:HE1	1:AU:205:GLY:C	2.14	0.51
1:BF:88:PHE:HE1	1:BF:205:GLY:C	2.14	0.51
1:AC:210:ARG:HD2	3:DE:14:PHE:CZ	37.55	0.51
1:AF:210:ARG:HD2	3:DH:14:PHE:CZ	37.55	0.51
1:AL:210:ARG:HD2	3:DL:14:PHE:CZ	2.46	0.51
1:AL:210:ARG:HD2	3:DN:14:PHE:CZ	37.55	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:A4:40:VAL:HG22	1:A4:211:TYR:CE1	2.46	0.51
1:A1:88:PHE:CE1	1:A1:205:GLY:C	2.85	0.51
1:AA:181:LYS:O	1:AA:182:ALA:HB2	2.11	0.51
2:CM:80:ILE:HD11	2:CM:132:TYR:OH	2.11	0.51
2:CU:80:ILE:HD11	2:CU:132:TYR:OH	2.11	0.51
1:AD:184:TYR:HE2	2:CF:139:ALA:CB	107.06	0.51
1:AH:184:TYR:HE2	2:CH:139:ALA:CB	2.23	0.51
2:CD:80:ILE:HD11	2:CD:132:TYR:OH	2.11	0.51
2:CF:135:THR:HB	2:CF:139:ALA:CA	2.41	0.51
2:CH:80:ILE:HD11	2:CH:132:TYR:OH	2.11	0.51
2:CH:135:THR:HB	2:CH:139:ALA:CA	2.41	0.51
2:CL:80:ILE:HD11	2:CL:132:TYR:OH	2.11	0.51
2:CW:80:ILE:HD11	2:CW:132:TYR:OH	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:80:ILE:HD11	2:C2:132:TYR:OH	2.11	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:A5:48:LEU:O	1:A5:131:GLN:NE2	2.43	0.51
1:AW:48:LEU:O	1:AW:131:GLN:NE2	2.43	0.51
2:C9:80:ILE:HG23	2:C9:82:PRO:HD3	1.91	0.51
3:DQ:60:PRO:O	3:DQ:61:TYR:HB3	2.11	0.51
3:DU:60:PRO:O	3:DU:61:TYR:HB3	2.11	0.51
2:CA:152:TYR:CB	2:CA:197:LEU:HD22	2.40	0.51
3:DK:60:PRO:O	3:DK:61:TYR:HB3	2.11	0.51
1:AH:170:PHE:CD2	1:AH:222:ARG:CZ	2.87	0.51
1:AY:30:VAL:HG13	1:AY:218:MET:HE2	1.93	0.51
2:C2:152:TYR:CE1	3:D2:60:PRO:HD3	2.44	0.51
2:CQ:186:LEU:HD23	2:CQ:186:LEU:O	2.11	0.51
2:CP:124:LEU:HD12	2:CP:163:LEU:CD1	2.40	0.51
3:DP:75:GLN:HG3	3:DP:184:GLN:HG2	1.93	0.51
3:EC:75:GLN:HG3	3:EC:184:GLN:HG2	1.93	0.51
3:D2:75:GLN:HG3	3:D2:184:GLN:HG2	1.93	0.51
3:DH:75:GLN:HG3	3:DH:184:GLN:HG2	1.93	0.51
3:D3:56:ILE:HG13	3:D3:74:PHE:HE1	1.72	0.51
2:C7:124:LEU:HD12	2:C7:163:LEU:CD1	2.40	0.51
3:D9:75:GLN:HG3	3:D9:184:GLN:HG2	1.93	0.51
3:DJ:75:GLN:HG3	3:DJ:184:GLN:HG2	1.93	0.51
2:CR:135:THR:HB	2:CR:139:ALA:CA	2.41	0.51
3:D0:31:VAL:HG12	4:F0:35:ASP:HA	1.92	0.51
1:AW:86:ILE:H	1:AW:86:ILE:HD12	1.73	0.51
2:CL:124:LEU:HD12	2:CL:163:LEU:CD1	2.40	0.51
1:AO:239:PHE:CD1	3:DS:170:TYR:CD2	155.42	0.51
1:A5:239:PHE:CD1	3:D6:170:TYR:CD2	2.96	0.51
1:AW:104:VAL:HG22	1:AW:197:LEU:HD21	1.90	0.51
1:BF:76:THR:O	1:BF:169:VAL:HG23	2.10	0.51
1:AA:109:VAL:HG22	1:AA:191:HIS:CD2	2.46	0.51
1:AA:242:ASN:HB2	1:AE:110:GLY:H	1.75	0.51
1:AF:242:ASN:HB2	1:AJ:110:GLY:H	1.75	0.51
1:AM:108:PRO:HA	1:AM:161:THR:HG21	1.92	0.51
1:A2:110:GLY:H	1:AY:242:ASN:HB2	1.75	0.51
1:BH:110:GLY:H	1:BI:242:ASN:HB2	1.75	0.51
1:BF:110:GLY:H	1:BG:242:ASN:HB2	1.75	0.51
1:AY:109:VAL:HG22	1:AY:191:HIS:CD2	2.46	0.51
1:AE:107:PHE:HE1	1:AE:196:LEU:HB2	1.76	0.51
1:AX:109:VAL:HG22	1:AX:191:HIS:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:ED:102:GLY:HA3	3:ED:214:PHE:HA	1.93	0.51
2:C6:87:LYS:HG3	2:C6:142:TRP:CD2	2.45	0.51
3:DT:102:GLY:HA3	3:DT:214:PHE:HA	1.93	0.51
3:DS:102:GLY:HA3	3:DS:214:PHE:HA	1.93	0.51
2:CC:16:THR:HA	2:CC:24:ILE:O	2.11	0.51
2:CV:24:ILE:HG23	3:DB:145:VAL:HB	1.92	0.51
2:CU:24:ILE:HG23	3:DG:145:VAL:HB	226.13	0.51
2:CQ:16:THR:HA	2:CQ:24:ILE:O	2.11	0.51
2:CN:16:THR:HA	2:CN:24:ILE:O	2.11	0.51
2:CB:16:THR:HA	2:CB:24:ILE:O	2.11	0.51
1:BF:19:LEU:HD12	2:CT:48:SER:HB2	194.05	0.51
2:CH:104:VAL:HG22	2:CH:222:VAL:HG13	1.92	0.51
1:BB:19:LEU:HD12	2:CP:48:SER:HB2	92.38	0.51
1:A3:19:LEU:HD12	2:C8:48:SER:HB2	1.93	0.51
3:D4:103:SER:HB3	3:D4:159:PRO:CA	2.35	0.51
1:AT:19:LEU:HD12	2:CY:48:SER:HB2	1.93	0.51
1:A0:19:LEU:HD12	2:C0:48:SER:HB2	1.93	0.51
1:AA:88:PHE:CE1	1:AA:205:GLY:C	2.85	0.51
1:AD:121:LEU:CD2	1:AE:206:GLY:HA3	2.39	0.51
1:AD:88:PHE:CE1	1:AD:205:GLY:C	2.85	0.51
1:AF:210:ARG:HD2	3:DF:14:PHE:CZ	2.46	0.51
1:AH:88:PHE:CE1	1:AH:205:GLY:C	2.84	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:AN:88:PHE:CE1	1:AN:205:GLY:C	2.85	0.51
1:AQ:37:PHE:HA	1:AQ:211:TYR:O	2.10	0.51
1:BB:40:VAL:HG22	1:BB:211:TYR:CE1	2.46	0.51
1:BI:88:PHE:CE1	1:BI:205:GLY:C	2.85	0.51
1:AA:210:ARG:HD2	3:DA:14:PHE:CZ	2.46	0.51
1:AI:210:ARG:HD2	3:DK:14:PHE:CZ	268.57	0.51
1:AM:210:ARG:HD2	3:DM:14:PHE:CZ	2.46	0.51
3:DM:19:PRO:HG3	4:FM:17:ASN:ND2	2.26	0.51
3:D6:42:ASN:HD22	3:D6:44:ILE:N	2.08	0.51
1:BH:210:ARG:HD2	3:ED:14:PHE:CZ	2.46	0.51
1:A4:37:PHE:HA	1:A4:211:TYR:O	2.10	0.51
1:A1:106:TRP:O	1:A1:139:SER:HB2	2.11	0.51
1:AZ:37:PHE:HA	1:AZ:211:TYR:O	2.10	0.51
2:C5:80:ILE:HD11	2:C5:132:TYR:OH	2.11	0.51
1:BD:181:LYS:O	1:BD:182:ALA:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:135:THR:HB	2:C7:139:ALA:CA	2.41	0.51
1:AB:181:LYS:O	1:AB:182:ALA:HB2	2.11	0.51
1:A3:181:LYS:O	1:A3:182:ALA:HB2	2.11	0.51
2:C5:52:THR:OG1	2:CF:57:THR:HB	2.11	0.51
1:AJ:50:GLY:O	1:AJ:131:GLN:NE2	2.43	0.51
1:A6:48:LEU:O	1:A6:131:GLN:NE2	2.43	0.51
2:CC:52:THR:OG1	2:CM:57:THR:HB	144.66	0.51
2:CH:52:THR:OG1	2:CR:57:THR:HB	144.65	0.51
2:CP:135:THR:HB	2:CP:139:ALA:CA	2.41	0.51
3:DI:60:PRO:O	3:DI:61:TYR:HB3	2.11	0.51
3:DN:60:PRO:O	3:DN:61:TYR:HB3	2.11	0.51
2:CT:153:GLN:NE2	3:DT:55:SER:N	2.58	0.51
1:AM:76:THR:O	1:AM:169:VAL:HG23	2.10	0.51
2:C3:152:TYR:CB	2:C3:197:LEU:HD22	2.40	0.51
3:DB:60:PRO:O	3:DB:61:TYR:HB3	2.10	0.51
3:D7:60:PRO:O	3:D7:61:TYR:HB3	2.11	0.51
1:AZ:170:PHE:CD2	1:AZ:222:ARG:CZ	2.87	0.51
2:CT:135:THR:HB	2:CT:139:ALA:CA	2.41	0.51
3:DF:31:VAL:HB	4:FF:34:ILE:O	2.10	0.51
3:DT:31:VAL:HG12	4:FT:35:ASP:HA	1.92	0.51
3:EE:31:VAL:HG12	4:FX:35:ASP:HA	164.89	0.51
2:CV:124:LEU:HD12	2:CV:163:LEU:HD12	1.91	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
2:C9:124:LEU:HD12	2:C9:163:LEU:HD12	1.91	0.51
3:D9:56:ILE:HG13	3:D9:74:PHE:HE1	1.72	0.51
3:DT:56:ILE:HG13	3:DT:74:PHE:HE1	1.72	0.51
1:BI:86:ILE:HD12	1:BI:86:ILE:H	1.73	0.51
3:DN:75:GLN:HG3	3:DN:184:GLN:HG2	1.93	0.51
3:DI:75:GLN:HG3	3:DI:184:GLN:HG2	1.93	0.51
1:A8:106:TRP:O	1:A8:139:SER:HB2	2.11	0.51
1:AF:239:PHE:CD1	3:DF:170:TYR:CD2	2.96	0.51
1:AI:109:VAL:HG22	1:AI:191:HIS:CD2	2.46	0.51
1:AF:109:VAL:HG22	1:AF:191:HIS:CD2	2.46	0.51
1:AE:109:VAL:HG22	1:AE:191:HIS:CD2	2.46	0.51
1:AO:110:GLY:H	1:AS:242:ASN:HB2	96.68	0.51
1:A9:109:VAL:HG22	1:A9:191:HIS:CD2	2.46	0.51
1:AM:110:GLY:H	1:AN:242:ASN:HB2	1.75	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:AT:107:PHE:HE1	1:AT:196:LEU:HB2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:107:PHE:HE1	1:A0:196:LEU:HB2	1.76	0.51
1:AG:107:PHE:HE1	1:AG:196:LEU:HB2	1.76	0.51
3:DO:102:GLY:HA3	3:DO:214:PHE:HA	1.93	0.51
2:CX:24:ILE:HG23	3:DO:145:VAL:HB	197.47	0.51
2:CZ:16:THR:HA	2:CZ:24:ILE:O	2.11	0.51
2:CF:16:THR:HA	2:CF:24:ILE:O	2.11	0.51
1:AC:19:LEU:HD12	2:CI:48:SER:HB2	138.35	0.51
1:A2:19:LEU:HD12	2:C2:48:SER:HB2	1.93	0.51
1:AY:19:LEU:HD12	2:C3:48:SER:HB2	1.93	0.51
1:AX:19:LEU:HD12	2:CX:48:SER:HB2	1.93	0.51
2:CE:104:VAL:HG22	2:CE:222:VAL:HG13	1.93	0.51
1:A6:19:LEU:HD12	2:C6:48:SER:HB2	1.93	0.51
2:C1:48:SER:O	3:D2:159:PRO:HB2	2.11	0.51
1:A8:88:PHE:HE1	1:A8:205:GLY:C	2.13	0.51
1:A9:88:PHE:CE1	1:A9:205:GLY:C	2.85	0.51
1:AC:101:PHE:CD2	1:AC:143:VAL:HG11	2.44	0.51
1:AE:210:ARG:HD2	3:DE:14:PHE:CZ	2.46	0.51
1:AG:88:PHE:CE1	1:AG:205:GLY:C	2.85	0.51
1:AO:88:PHE:HE1	1:AO:205:GLY:C	2.14	0.51
1:AO:40:VAL:HG22	1:AO:211:TYR:CE1	2.46	0.51
1:AP:88:PHE:HE1	1:AP:205:GLY:C	2.14	0.51
1:BF:40:VAL:HG22	1:BF:211:TYR:CE1	2.46	0.51
1:AD:210:ARG:HD2	3:DD:14:PHE:CZ	2.46	0.51
1:AJ:210:ARG:HD2	3:DJ:14:PHE:CZ	2.46	0.51
3:DO:19:PRO:HG3	4:FO:17:ASN:ND2	2.26	0.51
3:DH:42:ASN:HD22	3:DH:44:ILE:N	2.08	0.51
3:D4:42:ASN:HD22	3:D4:44:ILE:N	2.07	0.51
1:A2:88:PHE:CE1	1:A2:205:GLY:C	2.85	0.51
1:AY:88:PHE:CE1	1:AY:205:GLY:C	2.85	0.51
1:A6:37:PHE:HA	1:A6:211:TYR:O	2.10	0.51
1:A6:210:ARG:HD2	3:D7:14:PHE:CZ	2.46	0.51
1:BI:186:TRP:O	1:BI:187:LEU:HB3	2.09	0.51
1:AU:181:LYS:O	1:AU:182:ALA:HB2	2.11	0.51
2:CV:135:THR:HB	2:CV:139:ALA:CA	2.41	0.51
1:AM:184:TYR:HE2	2:CM:139:ALA:CB	2.23	0.51
1:A6:181:LYS:O	1:A6:182:ALA:HB2	2.11	0.51
2:CL:135:THR:HB	2:CL:139:ALA:CA	2.41	0.51
2:CY:80:ILE:HD11	2:CY:132:TYR:OH	2.11	0.51
1:A3:50:GLY:O	1:A3:131:GLN:NE2	2.43	0.51
1:AC:48:LEU:HD23	1:AC:198:THR:OG1	2.11	0.51
2:CX:135:THR:HB	2:CX:139:ALA:CA	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:80:ILE:HD11	2:CT:132:TYR:OH	2.11	0.51
1:A9:50:GLY:O	1:A9:131:GLN:NE2	2.43	0.51
1:AY:48:LEU:O	1:AY:131:GLN:NE2	2.43	0.51
2:C9:80:ILE:HD11	2:C9:132:TYR:OH	2.11	0.51
2:CR:226:LEU:CD2	3:DS:126:PRO:HG2	2.36	0.51
2:CQ:153:GLN:HA	3:DQ:53:PHE:HB2	1.93	0.51
1:BH:76:THR:O	1:BH:169:VAL:HG23	2.10	0.51
2:C2:152:TYR:CB	2:C2:197:LEU:HD22	2.40	0.51
2:CP:186:LEU:HD23	2:CP:186:LEU:O	2.11	0.51
3:DU:31:VAL:HG12	4:FU:35:ASP:HA	1.92	0.51
1:AQ:181:LYS:O	1:AQ:182:ALA:HB2	2.11	0.51
3:D8:31:VAL:HB	4:F8:34:ILE:O	2.10	0.51
3:D9:31:VAL:HB	4:F9:34:ILE:O	2.10	0.51
3:D9:31:VAL:HG12	4:F9:35:ASP:HA	1.92	0.51
1:A8:181:LYS:O	1:A8:182:ALA:HB2	2.11	0.51
2:C0:124:LEU:HD12	2:C0:163:LEU:CD1	2.40	0.51
3:DO:56:ILE:HG13	3:DO:74:PHE:HE1	1.72	0.51
1:AR:181:LYS:O	1:AR:182:ALA:HB2	2.11	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
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:A2:109:VAL:HG22	1:A2:191:HIS:CD2	2.46	0.51
1:AQ:110:GLY:H	1:AR:242:ASN:HB2	1.75	0.51
1:A4:109:VAL:HG22	1:A4:191:HIS:CD2	2.46	0.51
1:AS:109:VAL:HG22	1:AS:191:HIS:CD2	2.46	0.51
1:A5:109:VAL:HG22	1:A5:191:HIS:CD2	2.46	0.51
4:F6:25:PHE:CD2	4:F6:26:TYR:CE1	2.98	0.51
1:AV:107:PHE:HE1	1:AV:196:LEU:HB2	1.76	0.51
1:BE:107:PHE:HE1	1:BE:196:LEU:HB2	1.76	0.51
1:AH:107:PHE:HE1	1:AH:196:LEU:HB2	1.76	0.51
1:AZ:107:PHE:HE1	1:AZ:196:LEU:HB2	1.76	0.51
1:A1:109:VAL:HG22	1:A1:191:HIS:CD2	2.46	0.51
3:DR:102:GLY:HA3	3:DR:214:PHE:HA	1.93	0.51
1:A8:150:ARG:H	1:A8:150:ARG:HE	1.59	0.51
3:D8:102:GLY:HA3	3:D8:214:PHE:HA	1.93	0.51
2:CW:16:THR:HA	2:CW:24:ILE:O	2.11	0.50
2:C7:115:ASN:CA	3:DM:119:LYS:HZ3	155.07	0.50
2:CK:16:THR:HA	2:CK:24:ILE:O	2.11	0.50
2:CO:24:ILE:HG23	3:DP:145:VAL:HB	1.92	0.50
2:CQ:24:ILE:HG23	3:DP:145:VAL:HB	110.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:16:THR:HA	2:CG:24:ILE:O	2.11	0.50
1:AM:19:LEU:HD12	2:CS:48:SER:HB2	138.35	0.50
2:CT:48:SER:O	3:EB:159:PRO:HB2	201.85	0.50
2:CU:48:SER:O	3:EC:159:PRO:HB2	232.90	0.50
2:CG:104:VAL:HG22	2:CG:222:VAL:HG13	1.93	0.50
2:CX:49:ASP:CB	3:EA:161:SER:HB3	147.64	0.50
3:EA:103:SER:HB3	3:EA:159:PRO:CA	2.35	0.50
2:CY:49:ASP:CB	3:DU:161:SER:HB3	2.40	0.50
1:A8:40:VAL:HG22	1:A8:211:TYR:CE1	2.46	0.50
1:AB:40:VAL:HG22	1:AB:211:TYR:CE1	2.46	0.50
1:AD:101:PHE:CD2	1:AD:143:VAL:HG11	2.44	0.50
1:AI:106:TRP:O	1:AI:139:SER:HB2	2.11	0.50
1:AK:121:LEU:CD2	1:AL:206:GLY:HA3	2.39	0.50
1:AK:88:PHE:CE1	1:AK:205:GLY:C	2.84	0.50
1:AK:206:GLY:HA3	1:AO:121:LEU:CD2	2.39	0.50
1:AP:210:ARG:HD2	3:DP:14:PHE:CZ	2.46	0.50
1:AS:101:PHE:CD2	1:AS:143:VAL:HG11	2.44	0.50
1:BD:88:PHE:CE1	1:BD:205:GLY:C	2.85	0.50
3:DD:19:PRO:HG3	4:FD:17:ASN:ND2	2.26	0.50
1:BH:88:PHE:CE1	1:BH:205:GLY:C	2.85	0.50
1:A3:106:TRP:O	1:A3:139:SER:HB2	2.11	0.50
1:A4:88:PHE:HE1	1:A4:205:GLY:C	2.14	0.50
1:A0:106:TRP:O	1:A0:139:SER:HB2	2.11	0.50
1:A1:210:ARG:HD2	3:D2:14:PHE:CZ	2.46	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
2:CS:209:VAL:N	2:CS:210:PRO:CD	2.68	0.50
2:CA:135:THR:HB	2:CA:139:ALA:CA	2.41	0.50
2:CE:135:THR:HB	2:CE:139:ALA:CA	2.41	0.50
2:CI:80:ILE:HD11	2:CI:132:TYR:OH	2.11	0.50
1:AN:181:LYS:O	1:AN:182:ALA:HB2	2.11	0.50
2:CJ:135:THR:HB	2:CJ:139:ALA:CA	2.41	0.50
2:CN:135:THR:HB	2:CN:139:ALA:CA	2.41	0.50
2:CR:80:ILE:HD11	2:CR:132:TYR:OH	2.11	0.50
1:BD:48:LEU:HD23	1:BD:198:THR:OG1	2.12	0.50
1:AP:48:LEU:HD23	1:AP:198:THR:OG1	2.12	0.50
2:CH:57:THR:HB	2:CR:52:THR:OG1	144.65	0.50
1:AD:48:LEU:HD23	1:AD:198:THR:OG1	2.12	0.50
2:CF:57:THR:HB	2:CU:52:THR:OG1	195.57	0.50
2:CR:57:THR:HB	2:CW:52:THR:OG1	195.81	0.50
1:BA:48:LEU:HD23	1:BA:198:THR:OG1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:50:GLY:O	1:AU:131:GLN:NE2	2.43	0.50
3:DG:60:PRO:O	3:DG:61:TYR:HB3	2.11	0.50
1:AI:170:PHE:CD2	1:AI:222:ARG:CZ	2.87	0.50
1:AL:170:PHE:CD2	1:AL:222:ARG:CZ	2.87	0.50
1:A3:30:VAL:HG13	1:A3:218:MET:HE2	1.93	0.50
1:A1:76:THR:O	1:A1:169:VAL:HG23	2.10	0.50
2:CJ:186:LEU:O	2:CJ:186:LEU:HD23	2.11	0.50
3:EC:31:VAL:HG12	4:FV:35:ASP:HA	216.42	0.50
1:BC:181:LYS:O	1:BC:182:ALA:HB2	2.11	0.50
1:A5:181:LYS:O	1:A5:182:ALA:HB2	2.11	0.50
1:AT:86:ILE:CD1	1:AT:86:ILE:H	2.23	0.50
1:AW:86:ILE:H	1:AW:86:ILE:CD1	2.23	0.50
1:BB:86:ILE:CD1	1:BB:86:ILE:H	2.23	0.50
1:A4:86:ILE:H	1:A4:86:ILE:CD1	2.23	0.50
1:AY:181:LYS:O	1:AY:182:ALA:HB2	2.11	0.50
1:AD:239:PHE:CD1	3:DD:170:TYR:CD2	2.96	0.50
1:AH:239:PHE:CD1	3:DJ:170:TYR:CD2	81.72	0.50
1:AN:239:PHE:CD1	3:DB:170:TYR:CD2	212.39	0.50
1:AP:239:PHE:CD1	3:DP:170:TYR:CD2	2.96	0.50
1:AU:239:PHE:CD1	3:DV:170:TYR:CD2	2.96	0.50
1:AT:104:VAL:HG22	1:AT:197:LEU:HD21	1.90	0.50
1:BD:109:VAL:HG22	1:BD:191:HIS:CD2	2.46	0.50
1:AJ:109:VAL:HG22	1:AJ:191:HIS:CD2	2.46	0.50
1:AC:108:PRO:HA	1:AC:161:THR:HG21	1.92	0.50
1:BI:109:VAL:H	1:BI:161:THR:HB	1.74	0.50
1:A8:107:PHE:HE1	1:A8:196:LEU:HB2	1.76	0.50
3:DI:102:GLY:HA3	3:DI:214:PHE:HA	1.93	0.50
1:AE:150:ARG:H	1:AE:150:ARG:HE	1.60	0.50
3:DA:102:GLY:HA3	3:DA:214:PHE:HA	1.93	0.50
2:C0:16:THR:HA	2:C0:24:ILE:O	2.11	0.50
2:C9:16:THR:HA	2:C9:24:ILE:O	2.11	0.50
1:AE:19:LEU:HD12	2:CD:48:SER:HB2	1.93	0.50
1:AK:19:LEU:HD12	2:CL:48:SER:HB2	90.17	0.50
2:CS:48:SER:O	3:DO:159:PRO:HB2	113.94	0.50
1:AQ:19:LEU:HD12	2:CP:48:SER:HB2	1.93	0.50
1:BG:19:LEU:HD12	2:CU:48:SER:HB2	228.37	0.50
2:CU:104:VAL:HG22	2:CU:222:VAL:HG13	1.92	0.50
2:CY:104:VAL:HG22	2:CY:222:VAL:HG13	1.92	0.50
1:A1:19:LEU:HD12	2:C1:48:SER:HB2	1.93	0.50
1:A9:40:VAL:HG22	1:A9:211:TYR:CE1	2.46	0.50
1:AF:88:PHE:CE1	1:AF:205:GLY:C	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:210:ARG:HD2	3:DI:14:PHE:CZ	37.55	0.50
1:AL:88:PHE:CE1	1:AL:205:GLY:C	2.85	0.50
1:AP:121:LEU:CD2	1:AQ:206:GLY:HA3	2.39	0.50
1:AT:40:VAL:HG22	1:AT:211:TYR:CE1	2.46	0.50
1:BA:88:PHE:CE1	1:BA:205:GLY:C	2.85	0.50
1:BB:88:PHE:CE1	1:BB:205:GLY:C	2.85	0.50
1:BE:88:PHE:CE1	1:BE:205:GLY:C	2.85	0.50
1:AI:157:SER:CB	3:DK:24:PRO:HA	249.49	0.50
3:DP:3:ILE:HG22	3:DP:4:ARG:N	2.27	0.50
1:AQ:210:ARG:HD2	3:DQ:14:PHE:CZ	2.46	0.50
1:BD:210:ARG:HD2	3:DS:14:PHE:CZ	149.08	0.50
3:DT:19:PRO:HG3	4:FT:17:ASN:ND2	2.26	0.50
3:DV:19:PRO:HG3	4:FV:17:ASN:ND2	2.26	0.50
3:DK:19:PRO:HG3	4:FK:17:ASN:ND2	2.26	0.50
3:D7:3:ILE:HG22	3:D7:4:ARG:N	2.27	0.50
1:AU:106:TRP:O	1:AU:139:SER:HB2	2.11	0.50
1:AV:88:PHE:CE1	1:AV:205:GLY:C	2.85	0.50
1:A0:88:PHE:CE1	1:A0:205:GLY:C	2.84	0.50
1:AZ:210:ARG:HD2	3:D0:14:PHE:CZ	2.46	0.50
1:AE:181:LYS:O	1:AE:182:ALA:HB2	2.11	0.50
1:AI:181:LYS:O	1:AI:182:ALA:HB2	2.11	0.50
1:AO:181:LYS:O	1:AO:182:ALA:HB2	2.11	0.50
2:CK:135:THR:HB	2:CK:139:ALA:CA	2.41	0.50
2:C7:80:ILE:HD11	2:C7:132:TYR:OH	2.11	0.50
1:BF:50:GLY:O	1:BF:131:GLN:NE2	2.43	0.50
2:CX:80:ILE:HD11	2:CX:132:TYR:OH	2.11	0.50
2:C6:52:THR:OG1	2:CD:57:THR:HB	2.11	0.50
2:CO:57:THR:HB	2:CT:52:THR:OG1	2.11	0.50
1:AA:48:LEU:HD23	1:AA:198:THR:OG1	2.12	0.50
2:CC:52:THR:OG1	2:CV:57:THR:HB	116.58	0.50
1:BH:48:LEU:HD23	1:BH:198:THR:OG1	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
2:CM:153:GLN:HA	3:DM:53:PHE:HB2	1.94	0.50
2:CY:153:GLN:HA	3:DY:53:PHE:HB2	1.94	0.50
2:CI:153:GLN:HA	3:DI:53:PHE:HB2	1.94	0.50
3:EC:60:PRO:O	3:EC:61:TYR:HB3	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
3:EB:60:PRO:O	3:EB:61:TYR:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:60:PRO:O	3:DT:61:TYR:HB3	2.11	0.50
1:AG:30:VAL:HG13	1:AG:218:MET:HE2	1.93	0.50
2:CE:153:GLN:HA	3:DE:53:PHE:HB2	1.94	0.50
2:C9:152:TYR:CB	2:C9:197:LEU:HD22	2.40	0.50
2:CK:153:GLN:HA	3:DK:53:PHE:HB2	1.94	0.50
2:C4:152:TYR:CB	2:C4:197:LEU:HD22	2.40	0.50
2:CS:153:GLN:HA	3:DS:53:PHE:HB2	1.93	0.50
3:DS:60:PRO:O	3:DS:61:TYR:HB3	2.11	0.50
2:CO:152:TYR:CB	2:CO:197:LEU:HD22	2.40	0.50
1:BI:170:PHE:CD2	1:BI:222:ARG:CZ	2.87	0.50
2:CD:186:LEU:O	2:CD:186:LEU:HD23	2.11	0.50
2:C8:186:LEU:O	2:C8:186:LEU:HD23	2.11	0.50
3:DY:31:VAL:HG12	4:FY:35:ASP:HA	1.92	0.50
1:A6:86:ILE:H	1:A6:86:ILE:CD1	2.23	0.50
1:AR:239:PHE:CD1	3:DR:170:TYR:CD2	2.96	0.50
1:BG:109:VAL:HG22	1:BG:191:HIS:CD2	2.46	0.50
1:A2:109:VAL:H	1:A2:161:THR:HB	1.74	0.50
1:BF:109:VAL:HG22	1:BF:191:HIS:CD2	2.46	0.50
1:AI:107:PHE:HE1	1:AI:196:LEU:HB2	1.76	0.50
1:AS:171:TYR:N	1:AS:185:ASN:OD1	2.45	0.50
1:AB:150:ARG:H	1:AB:150:ARG:HE	1.59	0.50
1:AH:171:TYR:N	1:AH:185:ASN:OD1	2.44	0.50
1:AG:150:ARG:HE	1:AG:150:ARG:H	1.60	0.50
1:AJ:171:TYR:N	1:AJ:185:ASN:OD1	2.45	0.50
2:CV:115:ASN:CA	3:DB:119:LYS:HZ3	2.25	0.50
2:CL:16:THR:HA	2:CL:24:ILE:O	2.11	0.50
2:CO:16:THR:HA	2:CO:24:ILE:O	2.11	0.50
2:CA:115:ASN:CA	3:DL:119:LYS:HZ3	257.23	0.50
2:CB:48:SER:O	3:DC:159:PRO:HB2	2.12	0.50
2:CU:49:ASP:CB	3:EC:161:SER:HB3	235.62	0.50
2:C7:48:SER:O	3:D8:159:PRO:HB2	2.12	0.50
1:AZ:19:LEU:HD12	2:CZ:48:SER:HB2	1.93	0.50
1:AB:210:ARG:HD2	3:DB:14:PHE:CZ	2.46	0.50
1:AE:210:ARG:HD2	3:DG:14:PHE:CZ	131.71	0.50
1:AJ:88:PHE:HE1	1:AJ:205:GLY:C	2.14	0.50
1:AM:88:PHE:CE1	1:AM:205:GLY:C	2.85	0.50
1:AN:88:PHE:HE1	1:AN:205:GLY:C	2.14	0.50
1:AR:88:PHE:CE1	1:AR:205:GLY:C	2.85	0.50
1:AW:88:PHE:CE1	1:AW:205:GLY:C	2.85	0.50
1:BB:106:TRP:O	1:BB:139:SER:HB2	2.11	0.50
1:BC:88:PHE:CE1	1:BC:205:GLY:C	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:88:PHE:HE1	1:BC:205:GLY:C	2.14	0.50
1:BD:106:TRP:O	1:BD:139:SER:HB2	2.11	0.50
1:BD:88:PHE:HE1	1:BD:205:GLY:C	2.14	0.50
1:BE:210:ARG:HD2	3:EA:14:PHE:CZ	2.46	0.50
1:BF:88:PHE:CE1	1:BF:205:GLY:C	2.85	0.50
3:D9:19:PRO:HG3	4:F9:17:ASN:ND2	2.26	0.50
1:A9:210:ARG:HD2	3:DA:14:PHE:CZ	236.22	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:DK:1:ALA:HB1	3:DM:20:ASP:OD2	2.12	0.50
3:DN:19:PRO:HG3	4:FN:17:ASN:ND2	2.26	0.50
3:DQ:19:PRO:HG3	4:FQ:17:ASN:ND2	2.26	0.50
1:AR:210:ARG:HD2	3:DR:14:PHE:CZ	2.46	0.50
1:AO:210:ARG:HD2	3:DS:14:PHE:CZ	131.10	0.50
3:D3:42:ASN:HD22	3:D3:44:ILE:N	2.07	0.50
1:A4:88:PHE:CE1	1:A4:205:GLY:C	2.85	0.50
3:D1:3:ILE:HG22	3:D1:4:ARG:N	2.27	0.50
2:C7:140:LEU:HD22	2:C7:190:ASN:OD1	2.12	0.50
2:CZ:80:ILE:HD11	2:CZ:132:TYR:OH	2.11	0.50
1:AF:181:LYS:O	1:AF:182:ALA:HB2	2.11	0.50
2:CB:135:THR:HB	2:CB:139:ALA:CA	2.41	0.50
1:AG:48:LEU:HD23	1:AG:198:THR:OG1	2.12	0.50
1:BF:48:LEU:HD23	1:BF:198:THR:OG1	2.12	0.50
2:C4:52:THR:OG1	2:CU:57:THR:HB	236.21	0.50
1:A1:50:GLY:O	1:A1:131:GLN:NE2	2.43	0.50
1:AM:48:LEU:HD23	1:AM:198:THR:OG1	2.12	0.50
1:AQ:48:LEU:HD23	1:AQ:198:THR:OG1	2.12	0.50
1:AK:48:LEU:HD23	1:AK:198:THR:OG1	2.12	0.50
1:AS:50:GLY:O	1:AS:131:GLN:NE2	2.43	0.50
2:CD:226:LEU:CD2	3:D9:126:PRO:HG2	150.23	0.50
2:CU:153:GLN:HA	3:EB:53:PHE:HB2	244.84	0.50
2:CA:153:GLN:HA	3:DA:53:PHE:HB2	1.94	0.50
3:ED:60:PRO:O	3:ED:61:TYR:HB3	2.11	0.50
2:CG:186:LEU:O	2:CG:186:LEU:HD23	2.11	0.50
2:C5:124:LEU:HD12	2:C5:163:LEU:CD1	2.40	0.50
1:A4:181:LYS:O	1:A4:182:ALA:HB2	2.11	0.50
3:DL:75:GLN:HG3	3:DL:184:GLN:HG2	1.93	0.50
1:AT:43:LEU:CD2	1:AT:43:LEU:N	2.74	0.50
1:BG:239:PHE:CD1	3:EC:170:TYR:CD2	2.96	0.50
1:AN:110:GLY:H	1:AO:242:ASN:HB2	1.75	0.50
1:A9:108:PRO:HA	1:A9:161:THR:HG21	1.92	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:AW:109:VAL:HG22	1:AW:191:HIS:CD2	2.46	0.50
1:AS:108:PRO:HA	1:AS:161:THR:HG21	1.92	0.50
1:AZ:109:VAL:HG22	1:AZ:191:HIS:CD2	2.46	0.50
1:A6:109:VAL:HG22	1:A6:191:HIS:CD2	2.46	0.50
1:BG:107:PHE:HE1	1:BG:196:LEU:HB2	1.76	0.50
1:AC:107:PHE:HE1	1:AC:196:LEU:HB2	1.76	0.50
1:AU:107:PHE:HE1	1:AU:196:LEU:HB2	1.76	0.50
1:A7:109:VAL:HG22	1:A7:191:HIS:CD2	2.46	0.50
3:DN:102:GLY:HA3	3:DN:214:PHE:HA	1.93	0.50
1:AO:171:TYR:N	1:AO:185:ASN:OD1	2.45	0.50
1:AT:150:ARG:HE	1:AT:150:ARG:H	1.60	0.50
1:AC:150:ARG:HE	1:AC:150:ARG:H	1.59	0.50
1:AU:150:ARG:HE	1:AU:150:ARG:H	1.59	0.50
1:BF:150:ARG:HE	1:BF:150:ARG:H	1.60	0.50
1:BH:150:ARG:HE	1:BH:150:ARG:H	1.60	0.50
3:D1:102:GLY:HA3	3:D1:214:PHE:HA	1.93	0.50
2:CH:16:THR:HA	2:CH:24:ILE:O	2.11	0.50
2:CH:24:ILE:HG23	3:DS:145:VAL:HB	150.75	0.50
2:CI:24:ILE:HG23	3:DX:145:VAL:HB	1.92	0.50
2:CM:24:ILE:HG23	3:DD:145:VAL:HB	150.75	0.50
2:CQ:115:ASN:CA	3:DY:119:LYS:HZ3	112.73	0.50
2:CX:16:THR:HA	2:CX:24:ILE:O	2.11	0.50
2:CO:24:ILE:HG23	3:DR:145:VAL:HB	131.65	0.50
2:CG:115:ASN:CA	3:D3:119:LYS:HZ3	257.23	0.50
2:CA:115:ASN:CA	3:DW:119:LYS:HZ3	2.24	0.50
2:CA:16:THR:HA	2:CA:24:ILE:O	2.11	0.50
2:CY:16:THR:HA	2:CY:24:ILE:O	2.11	0.50
2:CE:16:THR:HA	2:CE:24:ILE:O	2.11	0.50
2:CP:16:THR:HA	2:CP:24:ILE:O	2.11	0.50
1:A9:19:LEU:HD12	2:C9:48:SER:HB2	1.93	0.50
1:AC:19:LEU:HD12	2:CB:48:SER:HB2	1.93	0.50
1:AG:19:LEU:HD12	2:CH:48:SER:HB2	90.17	0.50
2:CG:48:SER:O	3:DH:159:PRO:HB2	2.12	0.50
1:AF:19:LEU:HD12	2:CJ:48:SER:HB2	1.93	0.50
2:CE:48:SER:O	3:DF:159:PRO:HB2	38.58	0.50
2:CP:104:VAL:HG22	2:CP:222:VAL:HG13	1.93	0.50
1:BC:19:LEU:HD12	2:CQ:48:SER:HB2	125.48	0.50
1:AR:88:PHE:HE1	1:AR:205:GLY:C	2.14	0.50
1:AU:88:PHE:CE1	1:AU:205:GLY:C	2.85	0.50
3:DD:3:ILE:HG22	3:DD:4:ARG:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DP:1:ALA:HB1	3:DR:20:ASP:OD2	2.12	0.50
3:DT:42:ASN:HD22	3:DT:44:ILE:N	2.08	0.50
1:A3:88:PHE:HE1	1:A3:205:GLY:C	2.14	0.50
1:A5:210:ARG:HD2	3:D6:14:PHE:CZ	2.46	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:BG:181:LYS:O	1:BG:182:ALA:HB2	2.11	0.50
1:AH:181:LYS:O	1:AH:182:ALA:HB2	2.11	0.50
1:BE:48:LEU:HD23	1:BE:198:THR:OG1	2.12	0.50
2:CI:52:THR:OG1	2:CW:57:THR:HB	2.11	0.50
2:CA:57:THR:HB	2:CK:52:THR:OG1	236.21	0.50
1:AJ:48:LEU:HD23	1:AJ:198:THR:OG1	2.12	0.50
1:AN:48:LEU:HD23	1:AN:198:THR:OG1	2.12	0.50
1:BG:50:GLY:O	1:BG:131:GLN:NE2	2.43	0.50
1:AX:48:LEU:HD23	1:AX:198:THR:OG1	2.12	0.50
2:CO:125:CYS:HB2	2:CO:199:LEU:HD11	1.94	0.50
1:AW:48:LEU:HD23	1:AW:198:THR:OG1	2.12	0.50
1:AU:48:LEU:HD23	1:AU:198:THR:OG1	2.11	0.50
2:CN:153:GLN:HA	3:DN:53:PHE:HB2	1.94	0.50
3:DJ:60:PRO:O	3:DJ:61:TYR:HB3	2.11	0.50
1:A9:170:PHE:CD2	1:A9:222:ARG:CZ	2.87	0.50
1:AC:170:PHE:CD2	1:AC:222:ARG:CZ	2.87	0.50
1:AJ:170:PHE:CD2	1:AJ:222:ARG:CZ	2.87	0.50
2:CC:186:LEU:HD23	2:CC:186:LEU:O	2.11	0.50
2:CR:186:LEU:HD23	2:CR:186:LEU:O	2.11	0.50
1:AV:181:LYS:O	1:AV:182:ALA:HB2	2.11	0.50
1:BE:181:LYS:O	1:BE:182:ALA:HB2	2.11	0.50
3:DF:56:ILE:CD1	3:DF:56:ILE:N	2.75	0.50
2:C2:140:LEU:HD22	2:C2:190:ASN:OD1	2.12	0.50
1:AD:86:ILE:H	1:AD:86:ILE:CD1	2.23	0.50
1:AL:239:PHE:CD1	3:DL:170:TYR:CD2	2.96	0.50
1:BA:239:PHE:CD1	3:DP:170:TYR:CD2	130.26	0.50
3:EE:102:GLY:HA3	3:EE:214:PHE:HA	1.93	0.50
1:A5:171:TYR:N	1:A5:185:ASN:OD1	2.45	0.50
1:AJ:150:ARG:H	1:AJ:150:ARG:HE	1.59	0.50
1:AM:150:ARG:H	1:AM:150:ARG:HE	1.59	0.50
1:AX:150:ARG:HE	1:AX:150:ARG:H	1.60	0.50
1:AP:150:ARG:H	1:AP:150:ARG:HE	1.59	0.50
2:CU:16:THR:HA	2:CU:24:ILE:O	2.11	0.50
2:CE:115:ASN:CA	3:DF:119:LYS:HZ3	2.25	0.50
1:AE:19:LEU:HD12	2:CF:48:SER:HB2	93.48	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:48:SER:O	3:DS:159:PRO:HB2	2.12	0.50
2:CT:49:ASP:CB	3:EB:161:SER:HB3	203.68	0.50
1:BI:19:LEU:HD12	2:CW:48:SER:HB2	184.72	0.50
2:C3:49:ASP:CB	3:DZ:161:SER:HB3	2.40	0.50
2:CV:48:SER:O	3:ED:159:PRO:HB2	230.22	0.50
1:A8:210:ARG:HD2	3:D9:14:PHE:CZ	2.46	0.50
1:AB:88:PHE:HE1	1:AB:205:GLY:C	2.14	0.50
1:AH:101:PHE:CD2	1:AH:143:VAL:HG11	2.44	0.50
1:AI:101:PHE:CD2	1:AI:143:VAL:HG11	2.44	0.50
1:AI:88:PHE:CE1	1:AI:205:GLY:C	2.85	0.50
1:AQ:106:TRP:O	1:AQ:139:SER:HB2	2.11	0.50
1:BB:210:ARG:HD2	3:DQ:14:PHE:CZ	135.15	0.50
1:BI:88:PHE:HE1	1:BI:205:GLY:C	2.14	0.50
3:DA:3:ILE:HG22	3:DA:4:ARG:N	2.27	0.50
1:AN:210:ARG:HD2	3:DB:14:PHE:CZ	220.95	0.50
3:DB:1:ALA:HB1	3:DD:20:ASP:OD2	2.12	0.50
3:DE:20:ASP:OD2	3:DH:1:ALA:HB1	107.35	0.50
3:DE:3:ILE:HG22	3:DE:4:ARG:N	2.27	0.50
3:DF:3:ILE:HG22	3:DF: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:DI:19:PRO:HG3	4:FI:17:ASN:ND2	2.26	0.50
3:DF:20:ASP:OD2	3:DI:1:ALA:HB1	2.12	0.50
1:AN:210:ARG:HD2	3:DN:14:PHE:CZ	2.46	0.50
3:DQ:1:ALA:HB1	3:DS:20:ASP:OD2	2.12	0.50
3:DU:1:ALA:HB1	3:DW:20:ASP:OD2	2.12	0.50
1:AX:210:ARG:HD2	3:DY:14:PHE:CZ	2.46	0.50
1:A7:210:ARG:HD2	3:D8:14:PHE:CZ	2.46	0.50
3:DZ:42:ASN:HD22	3:DZ:44:ILE:N	2.08	0.50
3:DU:3:ILE:HG22	3:DU:4:ARG:N	2.27	0.50
3:EC:1:ALA:HB1	3:EE:20:ASP:OD2	2.12	0.50
1:A4:157:SER:CB	3:D5:24:PRO:HA	2.36	0.50
3:D0:3:ILE:HG22	3:D0:4:ARG:N	2.27	0.50
3:D3:19:PRO:HG3	4:F3:17:ASN:ND2	2.26	0.50
3:D2:1:ALA:HB1	3:DZ:20:ASP:OD2	2.12	0.50
1:AY:106:TRP:O	1:AY:139:SER:HB2	2.11	0.50
1:AZ:88:PHE:CE1	1:AZ:205:GLY:C	2.84	0.50
3:D2:3:ILE:HG22	3:D2:4:ARG:N	2.27	0.50
2:C1:80:ILE:HD11	2:C1:132:TYR:OH	2.11	0.50
2:CA:140:LEU:HD22	2:CA:190:ASN:OD1	2.12	0.50
2:CG:140:LEU:HD22	2:CG:190:ASN:OD1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:140:LEU:HD22	2:CM:190:ASN:OD1	2.12	0.50
2:CD:140:LEU:HD22	2:CD:190:ASN:OD1	2.12	0.50
2:CH:140:LEU:HD22	2:CH:190:ASN:OD1	2.12	0.50
2:CJ:140:LEU:HD22	2:CJ:190:ASN:OD1	2.12	0.50
2:CN:140:LEU:HD22	2:CN:190:ASN:OD1	2.12	0.50
1:AG:50:GLY:O	1:AG:131:GLN:NE2	2.43	0.50
1:AP:50:GLY:O	1:AP:131:GLN:NE2	2.43	0.50
2:CJ:57:THR:HB	2:CL:52:THR:OG1	215.00	0.50
2:CP:57:THR:HB	2:CZ:52:THR:OG1	73.86	0.50
1:A0:50:GLY:O	1:A0:131:GLN:NE2	2.43	0.50
2:CQ:125:CYS:HB2	2:CQ:199:LEU:HD11	1.94	0.50
1:AI:48:LEU:HD23	1:AI:198:THR:OG1	2.11	0.50
1:BB:48:LEU:HD23	1:BB:198:THR:OG1	2.12	0.50
1:A4:103:TRP:HB2	1:A4:198:THR:HG22	1.89	0.50
2:CP:153:GLN:HA	3:DP:53:PHE:HB2	1.93	0.50
2:CG:153:GLN:HA	3:DG:53:PHE:HB2	1.94	0.50
2:CW:153:GLN:HA	3:DW:53:PHE:HB2	1.94	0.50
2:CW:153:GLN:HA	3:ED:53:PHE:HB2	246.36	0.50
2:CC:153:GLN:HA	3:DC:53:PHE:HB2	1.94	0.50
2:CQ:140:LEU:HD22	2:CQ:190:ASN:OD1	2.12	0.50
3:DK:56:ILE:CD1	3:DK:56:ILE:N	2.75	0.50
3:DV:56:ILE:CD1	3:DV:56:ILE:N	2.75	0.50
3:DH:56:ILE:CD1	3:DH:56:ILE:N	2.75	0.50
3:DW:56:ILE:N	3:DW:56:ILE:CD1	2.75	0.50
3:EE:56:ILE:HG13	3:EE:74:PHE:HE1	1.72	0.50
1:A0:86:ILE:H	1:A0:86:ILE:CD1	2.23	0.50
3:DI:56:ILE:CD1	3:DI:56:ILE:N	2.75	0.50
1:AT:106:TRP:O	1:AT:139:SER:HB2	2.11	0.50
1:BI:106:TRP:O	1:BI:139:SER:HB2	2.11	0.50
1:A8:239:PHE:CD1	3:D9:170:TYR:CD2	2.96	0.50
1:AB:110:GLY:H	1:AC:242:ASN:HB2	1.75	0.50
1:AC:109:VAL:HG22	1:AC:191:HIS:CD2	2.46	0.50
1:AM:110:GLY:H	1:BA:242:ASN:HB2	216.55	0.50
3:DH:135:ARG:O	3:DH:138:ALA:N	2.45	0.50
3:DK:135:ARG:O	3:DK:138:ALA:N	2.45	0.50
3:DT:135:ARG:O	3:DT:138:ALA:N	2.45	0.50
1:A4:107:PHE:HE1	1:A4:196:LEU:HB2	1.76	0.50
1:AK:107:PHE:HE1	1:AK:196:LEU:HB2	1.76	0.50
1:AN:238:LYS:HA	3:DB:171:SER:O	214.60	0.50
3:DY:102:GLY:HA3	3:DY:214:PHE:HA	1.93	0.50
1:AS:150:ARG:HE	1:AS:150:ARG:H	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:150:ARG:HE	1:AH:150:ARG:H	1.60	0.50
1:AI:171:TYR:N	1:AI:185:ASN:OD1	2.45	0.50
3:D0:102:GLY:HA3	3:D0:214:PHE:HA	1.93	0.50
3:D9:102:GLY:HA3	3:D9:214:PHE:HA	1.93	0.50
2:CI:115:ASN:CA	3:DJ:119:LYS:HZ3	69.70	0.50
2:CI:16:THR:HA	2:CI:24:ILE:O	2.11	0.50
2:CW:24:ILE:HG23	3:DJ:145:VAL:HB	1.92	0.50
2:CW:115:ASN:C	3:DJ:119:LYS:HZ2	2.14	0.50
2:CV:16:THR:HA	2:CV:24:ILE:O	2.11	0.50
2:C2:16:THR:HA	2:C2:24:ILE:O	2.11	0.50
2:CO:115:ASN:CA	3:DP:119:LYS:HZ3	2.25	0.50
2:CJ:48:SER:O	3:DK:159:PRO:HB2	243.76	0.50
3:DS:103:SER:HB3	3:DS:159:PRO:CA	2.35	0.50
2:C3:48:SER:O	3:DZ:159:PRO:HB2	2.12	0.50
2:C8:48:SER:O	3:D4:159:PRO:HB2	2.12	0.50
2:CY:48:SER:O	3:DU:159:PRO:HB2	2.12	0.50
1:AC:210:ARG:HD2	3:DC:14:PHE:CZ	2.46	0.50
1:AC:40:VAL:HG22	1:AC:211:TYR:HE1	1.77	0.50
1:AG:40:VAL:HG22	1:AG:211:TYR:HE1	1.77	0.50
1:AK:210:ARG:HD2	3:DM:14:PHE:CZ	37.55	0.50
1:AS:40:VAL:HG22	1:AS:211:TYR:CE1	2.46	0.50
3:DF:1:ALA:HB1	3:DH:20:ASP:OD2	2.12	0.50
1:AG:210:ARG:HD2	3:DG:14:PHE:CZ	2.46	0.50
3:DG:1:ALA:HB1	3:DI:20:ASP:OD2	2.12	0.50
3:DJ:20:ASP:OD2	3:DM:1:ALA:HB1	243.72	0.50
3:DJ:3:ILE:HG22	3:DJ:4:ARG:N	2.27	0.50
3:DK:20:ASP:OD2	3:DN:1:ALA:HB1	2.12	0.50
1:BC:210:ARG:HD2	3:DR:14:PHE:CZ	146.63	0.50
3:DR:3:ILE:HG22	3:DR:4:ARG:N	2.27	0.50
3:DR:1:ALA:HB1	3:DT:20:ASP:OD2	2.12	0.50
1:AW:210:ARG:HD2	3:DX:14:PHE:CZ	2.46	0.50
3:DX:3:ILE:HG22	3:DX:4:ARG:N	2.27	0.50
3:ED:19:PRO:HG3	4:FW:17:ASN:ND2	215.61	0.50
3:D5:42:ASN:HD22	3:D5:44:ILE:N	2.08	0.50
3:ED:42:ASN:HD22	3:ED:44:ILE:N	2.07	0.50
1:AY:37:PHE:HA	1:AY:211:TYR:O	2.10	0.50
3:D0:20:ASP:OD2	3:D3:1:ALA:HB1	2.12	0.50
1:A9:181:LYS:O	1:A9:182:ALA:HB2	2.11	0.50
2:CG:135:THR:HB	2:CG:139:ALA:CA	2.41	0.50
2:CG:80:ILE:HD11	2:CG:132:TYR:OH	2.11	0.50
2:CS:135:THR:HB	2:CS:139:ALA:CA	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:140:LEU:HD22	2:CF:190:ASN:OD1	2.12	0.50
1:AR:50:GLY:O	1:AR:131:GLN:NE2	2.43	0.50
1:A6:48:LEU:HD23	1:A6:198:THR:OG1	2.12	0.50
2:CO:57:THR:HB	2:CQ:52:THR:OG1	116.57	0.50
2:CQ:52:THR:OG1	2:CX:57:THR:HB	127.26	0.50
1:A2:48:LEU:HD23	1:A2:198:THR:OG1	2.11	0.50
2:CE:57:THR:HB	2:CJ:52:THR:OG1	2.11	0.50
2:CJ:52:THR:OG1	2:CL:57:THR:HB	215.00	0.50
1:AF:48:LEU:HD23	1:AF:198:THR:OG1	2.12	0.50
2:CJ:125:CYS:HB2	2:CJ:199:LEU:HD11	1.94	0.50
2:C5:125:CYS:HB2	2:C5:199:LEU:HD11	1.94	0.50
2:CX:226:LEU:CD2	3:DY:126:PRO:HG2	2.36	0.50
2:CT:153:GLN:HA	3:DT:53:PHE:HB2	1.94	0.50
3:DZ:60:PRO:O	3:DZ:61:TYR:HB3	2.11	0.50
2:CB:153:GLN:HA	3:DB:53:PHE:HB2	1.94	0.50
2:CW:135:THR:HB	2:CW:139:ALA:CA	2.41	0.50
3:DG:56:ILE:N	3:DG:56:ILE:CD1	2.75	0.50
3:DA:56:ILE:CD1	3:DA:56:ILE:N	2.75	0.50
2:C1:135:THR:HB	2:C1:139:ALA:CA	2.41	0.50
3:DC:75:GLN:HG3	3:DC:184:GLN:HG2	1.93	0.50
3:D9:56:ILE:N	3:D9:56:ILE:CD1	2.75	0.50
3:DE:56:ILE:N	3:DE:56:ILE:CD1	2.75	0.50
3:EA:75:GLN:HG3	3:EA:184:GLN:HG2	1.93	0.50
1:BF:181:LYS:O	1:BF:182:ALA:HB2	2.11	0.50
3:DS:75:GLN:HG3	3:DS:184:GLN:HG2	1.93	0.50
1:AZ:181:LYS:O	1:AZ:182:ALA:HB2	2.11	0.50
1:AC:239:PHE:CD1	3:DC:170:TYR:CD2	2.96	0.50
1:BH:109:VAL:HG22	1:BH:191:HIS:CD2	2.46	0.50
3:DC:135:ARG:O	3:DC:138:ALA:N	2.45	0.50
3:DI:135:ARG:O	3:DI:138:ALA:N	2.45	0.50
3:DR:135:ARG:O	3:DR:138:ALA:N	2.45	0.50
3:DY:135:ARG:O	3:DY:138:ALA:N	2.45	0.50
3:DL:135:ARG:O	3:DL:138:ALA:N	2.45	0.50
3:DW:135:ARG:O	3:DW:138:ALA:N	2.45	0.50
3:D9:135:ARG:O	3:D9:138:ALA:N	2.45	0.50
3:D6:135:ARG:O	3:D6:138:ALA:N	2.45	0.50
3:DV:135:ARG:O	3:DV:138:ALA:N	2.45	0.50
1:BB:109:VAL:HG22	1:BB:191:HIS:CD2	2.46	0.50
1:AB:107:PHE:HE1	1:AB:196:LEU:HB2	1.76	0.50
1:BA:107:PHE:HE1	1:BA:196:LEU:HB2	1.76	0.50
1:AQ:107:PHE:HE1	1:AQ:196:LEU:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:109:VAL:HG22	1:A0:191:HIS:CD2	2.46	0.50
1:AB:238:LYS:HA	3:DD:171:SER:O	88.34	0.50
1:AH:128:VAL:CG1	1:AI:89:LYS:HG2	2.42	0.50
3:DD:102:GLY:HA3	3:DD:214:PHE:HA	1.93	0.50
3:D6:102:GLY:HA3	3:D6:214:PHE:HA	1.93	0.50
1:AQ:238:LYS:HA	3:DQ:171:SER:O	2.12	0.50
1:AT:128:VAL:CG1	1:AU:89:LYS:HG2	2.42	0.50
3:D5:102:GLY:HA3	3:D5:214:PHE:HA	1.93	0.50
3:DG:102:GLY:HA3	3:DG:214:PHE:HA	1.93	0.50
1:AC:238:LYS:HA	3:DE:171:SER:O	88.34	0.50
1:AK:238:LYS:HA	3:DM:171:SER:O	88.34	0.50
1:AN:150:ARG:H	1:AN:150:ARG:HE	1.60	0.50
1:AF:150:ARG:H	1:AF:150:ARG:HE	1.60	0.50
1:AO:150:ARG:H	1:AO:150:ARG:HE	1.60	0.50
2:C8:16:THR:HA	2:C8:24:ILE:O	2.11	0.50
2:CV:24:ILE:HG23	3:DD:145:VAL:HB	131.64	0.50
1:AJ:19:LEU:HD12	2:CI:48:SER:HB2	1.93	0.50
1:BD:19:LEU:HD12	2:CR:48:SER:HB2	140.76	0.50
2:C9:48:SER:O	3:DA:159:PRO:HB2	209.15	0.50
2:CF:48:SER:O	3:DG:159:PRO:HB2	2.12	0.50
1:AJ:19:LEU:HD12	2:CK:48:SER:HB2	240.09	0.50
1:AP:19:LEU:HD12	2:CT:48:SER:HB2	1.93	0.50
2:CL:48:SER:O	3:DM:159:PRO:HB2	2.12	0.50
1:AW:19:LEU:HD12	2:CW:48:SER:HB2	1.93	0.50
2:CW:48:SER:O	3:DX:159:PRO:HB2	2.12	0.50
1:BH:19:LEU:HD12	2:CV:48:SER:HB2	225.12	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:AI:82:LEU:HD23	1:AI:84:LEU:HD11	1.94	0.50
1:AX:88:PHE:CE1	1:AX:205:GLY:C	2.85	0.50
1:BD:82:LEU:HD23	1:BD:84:LEU:HD11	1.94	0.50
3:D9:20:ASP:OD2	3:DC:1:ALA:HB1	200.75	0.50
3:D9:1:ALA:HB1	3:DB:20:ASP:OD2	217.72	0.50
3:DC:3:ILE:HG22	3:DC:4:ARG:N	2.27	0.50
3:DE:1:ALA:HB1	3:DG:20:ASP:OD2	141.12	0.50
1:AH:210:ARG:HD2	3:DH:14:PHE:CZ	2.46	0.50
3:DI:3:ILE:HG22	3:DI:4:ARG:N	2.27	0.50
1:AK:210:ARG:HD2	3:DK:14:PHE:CZ	2.46	0.50
3:DM:3:ILE:HG22	3:DM:4:ARG:N	2.27	0.50
1:AO:157:SER:CB	3:DO:24:PRO:HA	2.36	0.50
3:DP:19:PRO:HG3	4:FP:17:ASN:ND2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A4:210:ARG:HD2	3:D5:14:PHE:CZ	2.46	0.50
1:A5:88:PHE:CE1	1:A5:205:GLY:C	2.85	0.50
1:A0:210:ARG:HD2	3:D1:14:PHE:CZ	2.46	0.50
3:DZ:3:ILE:HG22	3:DZ:4:ARG:N	2.27	0.50
3:D3:3:ILE:HG22	3:D3:4:ARG:N	2.27	0.50
1:AG:187:LEU:HD12	1:AG:190:ALA:HB2	1.94	0.50
2:C3:209:VAL:N	2:C3:210:PRO:CD	2.68	0.50
1:AC:181:LYS:O	1:AC:182:ALA:HB2	2.11	0.50
2:CS:140:LEU:HD22	2:CS:190:ASN:OD1	2.12	0.50
1:AJ:181:LYS:O	1:AJ:182:ALA:HB2	2.11	0.50
2:CB:140:LEU:HD22	2:CB:190:ASN:OD1	2.12	0.50
2:CJ:80:ILE:HD11	2:CJ:132:TYR:OH	2.11	0.50
2:C8:80:ILE:HD11	2:C8:132:TYR:OH	2.11	0.50
2:C5:57:THR:HB	2:CF:52:THR:OG1	2.11	0.50
1:AE:48:LEU:HD23	1:AE:198:THR:OG1	2.12	0.50
2:CE:125:CYS:HB2	2:CE:199:LEU:HD11	1.94	0.50
1:A0:48:LEU:HD23	1:A0:198:THR:OG1	2.12	0.50
1:A7:50:GLY:O	1:A7:131:GLN:NE2	2.43	0.50
1:AW:50:GLY:O	1:AW:131:GLN:NE2	2.43	0.50
2:CF:125:CYS:HB2	2:CF:199:LEU:HD11	1.94	0.50
1:BA:50:GLY:O	1:BA:131:GLN:NE2	2.43	0.50
2:C3:125:CYS:HB2	2:C3:199:LEU:HD11	1.94	0.50
1:AH:48:LEU:HD23	1:AH:198:THR:OG1	2.12	0.50
2:CO:226:LEU:CD2	3:DP:126:PRO:HG2	27.79	0.50
2:CQ:149:ALA:O	2:CQ:152:TYR:N	2.45	0.50
2:CU:149:ALA:O	2:CU:152:TYR:N	2.45	0.50
2:CA:149:ALA:O	2:CA:152:TYR:N	2.45	0.50
2:C8:153:GLN:HA	3:D8:53:PHE:HB2	1.93	0.50
1:AP:30:VAL:HG13	1:AP:218:MET:HE2	1.93	0.50
2:CK:186:LEU:HD23	2:CK:186:LEU:O	2.11	0.50
2:CW:140:LEU:HD22	2:CW:190:ASN:OD1	2.12	0.50
1:AS:181:LYS:O	1:AS:182:ALA:HB2	2.11	0.50
1:AI:79:PHE:CZ	3:DI:31:VAL:HG11	2.47	0.50
1:AH:79:PHE:CZ	3:DH:31:VAL:HG11	2.47	0.50
1:BF:79:PHE:CZ	3:EB:31:VAL:HG11	2.47	0.50
2:CO:227:PRO:HB3	3:DK:132:PRO:HB3	1.94	0.50
1:AV:79:PHE:CZ	3:DW:31:VAL:HG11	2.47	0.50
3:DV:75:GLN:HG3	3:DV:184:GLN:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:75:GLN:HG3	3:DZ:184:GLN:HG2	1.93	0.50
2:C9:135:THR:HB	2:C9:139:ALA:CA	2.41	0.50
3:D0:56:ILE:N	3:D0:56:ILE:CD1	2.75	0.50
3:DC:56:ILE:CD1	3:DC:56:ILE:N	2.75	0.50
3:DO:56:ILE:N	3:DO:56:ILE:CD1	2.75	0.50
3:DT:56:ILE:CD1	3:DT:56:ILE:N	2.75	0.50
3:DY:56:ILE:CD1	3:DY:56:ILE:N	2.75	0.50
3:DQ:56:ILE:N	3:DQ:56:ILE:CD1	2.75	0.50
3:DD:56:ILE:CD1	3:DD:56:ILE:N	2.75	0.50
1:BE:86:ILE:CD1	1:BE:86:ILE:H	2.23	0.50
3:D3:31:VAL:HB	4:F3:34:ILE:O	2.10	0.50
3:DF:135:ARG:O	3:DF:138:ALA:N	2.45	0.50
1:AT:242:ASN:HB2	1:AX:110:GLY:H	1.75	0.50
3:DM:135:ARG:O	3:DM:138:ALA:N	2.45	0.50
3:DE:135:ARG:O	3:DE:138:ALA:N	2.45	0.50
3:ED:135:ARG:O	3:ED:138:ALA:N	2.45	0.50
1:BB:110:GLY:H	1:BC:242:ASN:HB2	1.75	0.50
3:EC:135:ARG:O	3:EC:138:ALA:N	2.45	0.50
3:EB:135:ARG:O	3:EB:138:ALA:N	2.45	0.50
4:FF:20:SER:HA	4:FJ:25:PHE:O	2.12	0.50
3:DN:121:LEU:O	3:DN:121:LEU:HD23	2.12	0.50
4:F1:25:PHE:O	4:F2:20:SER:HA	2.12	0.50
3:DF:121:LEU:O	3:DF:121:LEU:HD23	2.12	0.50
4:FP:25:PHE:O	4:FQ:20:SER:HA	2.12	0.50
3:D3:121:LEU:O	3:D3:121:LEU:HD23	2.12	0.50
1:AN:107:PHE:HE1	1:AN:196:LEU:HB2	1.76	0.50
1:AL:238:LYS:HA	3:DL:171:SER:O	2.12	0.50
1:AE:238:LYS:HA	3:DG:171:SER:O	117.21	0.50
1:AT:171:TYR:N	1:AT:185:ASN:OD1	2.45	0.50
1:AY:128:VAL:CG1	1:AZ:89:LYS:HG2	2.42	0.50
3:D2:102:GLY:HA3	3:D2:214:PHE:HA	1.93	0.50
1:BG:128:VAL:CG1	1:BH:89:LYS:HG2	2.42	0.50
1:AZ:238:LYS:HA	3:D0:171:SER:O	2.12	0.50
1:AN:171:TYR:N	1:AN:185:ASN:OD1	2.45	0.50
1:BE:89:LYS:HG2	1:BI:128:VAL:CG1	2.42	0.50
1:AV:128:VAL:CG1	1:AW:89:LYS:HG2	2.42	0.50
1:A3:128:VAL:CG1	1:A4:89:LYS:HG2	2.42	0.50
2:C4:140:LEU:HD22	2:C4:190:ASN:OD1	2.12	0.50
2:CW:115:ASN:CA	3:DS:119:LYS:HZ3	249.33	0.50
2:CH:115:ASN:CA	3:DS:119:LYS:HZ3	161.17	0.50
2:CT:115:ASN:CA	3:DH:119:LYS:HZ3	224.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CS:115:ASN:CA	3:DC:119:LYS:HZ3	258.53	0.50
1:AB:19:LEU:HD12	2:CA:48:SER:HB2	1.93	0.50
1:AH:19:LEU:HD12	2:CG:48:SER:HB2	1.93	0.50
1:AK:19:LEU:HD12	2:CO:48:SER:HB2	1.93	0.50
2:CS:48:SER:O	3:DT:159:PRO:HB2	2.12	0.50
2:CC:48:SER:O	3:DD:159:PRO:HB2	2.12	0.50
2:C4:48:SER:O	3:D5:159:PRO:HB2	2.12	0.50
2:CP:48:SER:O	3:DQ:159:PRO:HB2	2.12	0.50
2:CU:48:SER:O	3:DV:159:PRO:HB2	2.12	0.50
2:CX:48:SER:O	3:EA:159:PRO:HB2	147.13	0.50
1:A8:121:LEU:CD2	1:A9:206:GLY:HA3	2.39	0.50
1:AA:40:VAL:HG22	1:AA:211:TYR:HE1	1.77	0.50
1:AD:210:ARG:HD2	3:DF:14:PHE:CZ	130.80	0.50
1:AL:40:VAL:HG22	1:AL:211:TYR:HE1	1.77	0.50
1:AN:101:PHE:CD2	1:AN:143:VAL:HG11	2.44	0.50
1:AN:40:VAL:HG22	1:AN:211:TYR:HE1	1.77	0.50
1:AP:88:PHE:CE1	1:AP:205:GLY:C	2.85	0.50
1:AQ:40:VAL:HG22	1:AQ:211:TYR:CE1	2.46	0.50
1:AS:88:PHE:CE1	1:AS:205:GLY:C	2.85	0.50
1:BE:82:LEU:HD23	1:BE:84:LEU:HD11	1.94	0.50
1:BI:101:PHE:CD2	1:BI:143:VAL:HG11	2.44	0.50
1:A9:157:SER:CB	3:DA:24:PRO:HA	224.20	0.50
3:DB:4:ARG:NH1	3:DE:20:ASP:OD2	2.45	0.50
3:DL:1:ALA:HB1	3:DN:20:ASP:OD2	2.12	0.50
3:DL:3:ILE:HG22	3:DL:4:ARG:N	2.27	0.50
3:DX:42:ASN:HD22	3:DX:44:ILE:N	2.08	0.50
1:A3:88:PHE:CE1	1:A3:205:GLY:C	2.84	0.50
1:AM:187:LEU:HD12	1:AM:190:ALA:HB2	1.94	0.50
2:CM:135:THR:HB	2:CM:139:ALA:CA	2.41	0.50
2:C0:80:ILE:HD11	2:C0:132:TYR:OH	2.11	0.50
1:AL:48:LEU:HD23	1:AL:198:THR:OG1	2.12	0.50
1:AZ:48:LEU:HD23	1:AZ:198:THR:OG1	2.11	0.50
2:CL:125:CYS:HB2	2:CL:199:LEU:HD11	1.94	0.50
2:CZ:125:CYS:HB2	2:CZ:199:LEU:HD11	1.94	0.50
2:CE:149:ALA:O	2:CE:152:TYR:N	2.45	0.50
3:D4:60:PRO:O	3:D4:61:TYR:HB3	2.11	0.50
2:CO:153:GLN:HA	3:DO:53:PHE:HB2	1.94	0.50
2:C8:149:ALA:O	2:C8:152:TYR:N	2.45	0.50
1:A6:170:PHE:CD2	1:A6:222:ARG:CZ	2.87	0.50
1:BD:79:PHE:CZ	3:DS:31:VAL:HG11	138.70	0.50
1:AC:79:PHE:CZ	3:DC:31:VAL:HG11	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:79:PHE:CZ	3:DO:31:VAL:HG11	60.43	0.50
1:AB:79:PHE:CZ	3:DB:31:VAL:HG11	2.47	0.50
3:DV:31:VAL:HG12	4:FV:35:ASP:HA	1.92	0.50
1:BI:79:PHE:CZ	3:EE:31:VAL:HG11	2.47	0.50
3:DR:56:ILE:N	3:DR:56:ILE:CD1	2.75	0.50
3:D3:75:GLN:HG3	3:D3:184:GLN:HG2	1.93	0.50
2:CS:227:PRO:HB3	3:DT:132:PRO:HB3	1.94	0.50
3:DJ:56:ILE:CD1	3:DJ:56:ILE:N	2.75	0.50
2:CX:227:PRO:HB3	3:EA:132:PRO:HB3	152.81	0.50
2:CR:140:LEU:HD22	2:CR:190:ASN:OD1	2.12	0.50
1:AZ:79:PHE:CZ	3:D0:31:VAL:HG11	2.47	0.50
3:DL:56:ILE:CD1	3:DL:56:ILE:N	2.75	0.50
2:CY:135:THR:HB	2:CY:139:ALA:CA	2.41	0.50
1:AQ:109:VAL:HG22	1:AQ:191:HIS:CD2	2.46	0.50
3:DB:135:ARG:O	3:DB:138:ALA:N	2.45	0.50
3:DG:135:ARG:O	3:DG:138:ALA:N	2.45	0.50
1:AP:242:ASN:HB2	1:AS:110:GLY:H	1.75	0.50
3:D2:135:ARG:O	3:D2:138:ALA:N	2.45	0.50
3:DN:135:ARG:O	3:DN:138:ALA:N	2.45	0.50
3:DQ:135:ARG:O	3:DQ:138:ALA:N	2.45	0.50
4:FA:25:PHE:O	4:FB:20:SER:HA	2.12	0.50
4:FH:25:PHE:O	4:FI:20:SER:HA	2.12	0.50
3:DB:121:LEU:HD23	3:DB:121:LEU:O	2.12	0.50
3:DD:121:LEU:O	3:DD:121:LEU:HD23	2.12	0.50
4:FU:25:PHE:O	4:FV:20:SER:HA	2.12	0.50
3:D6:121:LEU:HD23	3:D6:121:LEU:O	2.12	0.50
3:DW:121:LEU:HD23	3:DW:121:LEU:O	2.12	0.50
3:DC:121:LEU:O	3:DC:121:LEU:HD23	2.12	0.50
4:FL:25:PHE:O	4:FM:20:SER:HA	2.12	0.50
3:DV:121:LEU:O	3:DV:121:LEU:HD23	2.12	0.50
1:BF:107:PHE:HE1	1:BF:196:LEU:HB2	1.76	0.50
1:AG:238:LYS:HA	3:DG:171:SER:O	2.12	0.50
1:AA:238:LYS:HA	3:DC:171:SER:O	88.34	0.50
1:AK:171:TYR:N	1:AK:185:ASN:OD1	2.44	0.50
3:D3:102:GLY:HA3	3:D3:214:PHE:HA	1.93	0.50
1:A0:238:LYS:HA	3:D1:171:SER:O	2.12	0.50
3:DW:102:GLY:HA3	3:DW:214:PHE:HA	1.93	0.50
1:A6:128:VAL:CG1	1:A7:89:LYS:HG2	2.42	0.50
1:A1:171:TYR:N	1:A1:185:ASN:OD1	2.45	0.50
1:AL:128:VAL:CG1	1:AM:89:LYS:HG2	2.42	0.50
1:A7:238:LYS:HA	3:D8:171:SER:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:102:GLY:HA3	3:DZ:214:PHE:HA	1.93	0.50
2:CL:140:LEU:HD22	2:CL:190:ASN:OD1	2.12	0.50
1:BA:150:ARG:H	1:BA:150:ARG:HE	1.60	0.50
1:AL:150:ARG:HE	1:AL:150:ARG:H	1.59	0.50
1:BB:150:ARG:HE	1:BB:150:ARG:H	1.60	0.50
1:AD:150:ARG:HE	1:AD:150:ARG:H	1.60	0.50
1:AC:128:VAL:CG1	1:AD:89:LYS:HG2	2.42	0.50
1:AO:89:LYS:HG2	1:AR:128:VAL:CG1	148.12	0.50
1:AW:128:VAL:CG1	1:AX:89:LYS:HG2	2.42	0.50
2:CV:115:ASN:CA	3:DD:119:LYS:HZ3	150.95	0.50
2:CH:48:SER:O	3:DI:159:PRO:HB2	2.12	0.50
2:CO:48:SER:O	3:DK:159:PRO:HB2	2.12	0.50
2:C6:48:SER:O	3:D7:159:PRO:HB2	2.12	0.50
1:AA:82:LEU:HD23	1:AA:84:LEU:HD11	1.94	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:AO:88:PHE:CE1	1:AO:205:GLY:C	2.85	0.50
1:AQ:88:PHE:CE1	1:AQ:205:GLY:C	2.85	0.50
1:AR:106:TRP:O	1:AR:139:SER:HB2	2.11	0.50
1:AR:40:VAL:HG22	1:AR:211:TYR:HE1	1.77	0.50
1:AW:82:LEU:HD23	1:AW:84:LEU:HD11	1.94	0.50
1:BA:106:TRP:O	1:BA:139:SER:HB2	2.11	0.50
1:BA:82:LEU:HD23	1:BA:84:LEU:HD11	1.94	0.50
1:BB:82:LEU:HD23	1:BB:84:LEU:HD11	1.94	0.50
1:A8:157:SER:CB	3:D9:24:PRO:HA	2.36	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:DF:20:ASP:OD2	3:DH:4:ARG:NH1	2.45	0.50
3:DM:1:ALA:HB1	3:DO:20:ASP:OD2	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:DW:20:ASP:OD2	3:DY: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
1:A7:88:PHE:CE1	1:A7:205:GLY:C	2.85	0.50
1:A3:210:ARG:HD2	3:D4:14:PHE:CZ	2.46	0.50
1:AV:82:LEU:HD23	1:AV:84:LEU:HD11	1.94	0.50
3:DU:4:ARG:NH1	3:DX:20:ASP:OD2	2.45	0.50
3:D4:1:ALA:HB1	3:D6:20:ASP:OD2	2.12	0.50
1:AZ:106:TRP:O	1:AZ:139:SER:HB2	2.11	0.50
1:A1:157:SER:CB	3:D2:24:PRO:HA	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:187:LEU:HD12	1:AA:190:ALA:HB2	1.94	0.50
1:AH:187:LEU:HD12	1:AH:190:ALA:HB2	1.94	0.50
1:A0:187:LEU:HD12	1:A0:190:ALA:HB2	1.94	0.50
2:CI:135:THR:HB	2:CI:139:ALA:CA	2.41	0.50
2:CF:80:ILE:HD11	2:CF:132:TYR:OH	2.11	0.50
2:C8:140:LEU:HD22	2:C8:190:ASN:OD1	2.12	0.50
1:AB:48:LEU:HD23	1:AB:198:THR:OG1	2.12	0.50
1:AW:181:LYS:O	1:AW:182:ALA:HB2	2.11	0.50
2:CG:57:THR:HB	2:CT:52:THR:OG1	212.43	0.50
2:CC:125:CYS:HB2	2:CC:199:LEU:HD11	1.94	0.50
2:CH:149:ALA:O	2:CH:152:TYR:N	2.45	0.50
2:CV:153:GLN:HA	3:DV:53:PHE:HB2	1.94	0.50
2:CR:149:ALA:O	2:CR:152:TYR:N	2.45	0.50
2:CD:149:ALA:O	2:CD:152:TYR:N	2.45	0.50
2:CD:153:GLN:HA	3:DD:53:PHE:HB2	1.94	0.50
2:C0:153:GLN:HA	3:D0:53:PHE:HB2	1.94	0.50
1:AT:30:VAL:HG13	1:AT:218:MET:HE2	1.93	0.50
1:BH:181:LYS:O	1:BH:182:ALA:HB2	2.11	0.50
2:CT:140:LEU:HD22	2:CT:190:ASN:OD1	2.12	0.50
1:BB:79:PHE:CZ	3:DQ:31:VAL:HG11	119.71	0.50
1:AE:79:PHE:CZ	3:DG:31:VAL:HG11	121.48	0.50
1:AS:79:PHE:CZ	3:DT:31:VAL:HG11	2.47	0.50
3:ED:31:VAL:HG12	4:FW:35:ASP:HA	192.46	0.50
3:D4:75:GLN:HG3	3:D4:184:GLN:HG2	1.93	0.50
2:C4:227:PRO:HB3	3:D5:132:PRO:HB3	1.94	0.50
2:C0:227:PRO:HB3	3:D1:132:PRO:HB3	1.94	0.50
1:A6:79:PHE:CZ	3:D7:31:VAL:HG11	2.47	0.50
3:D6:75:GLN:HG3	3:D6:184:GLN:HG2	1.93	0.50
2:C2:227:PRO:HB3	3:D3:132:PRO:HB3	1.94	0.50
3:D0:75:GLN:HG3	3:D0:184:GLN:HG2	1.93	0.50
2:CN:227:PRO:HB3	3:DJ:132:PRO:HB3	251.73	0.50
2:CN:227:PRO:HB3	3:DO:132:PRO:HB3	1.94	0.50
2:CV:227:PRO:HB3	3:DW:132:PRO:HB3	1.94	0.50
2:CP:227:PRO:HB3	3:DQ:132:PRO:HB3	1.94	0.50
2:CW:227:PRO:HB3	3:EE:132:PRO:HB3	211.26	0.50
2:C0:140:LEU:HD22	2:C0:190:ASN:OD1	2.12	0.50
2:CH:227:PRO:HB3	3:DI:132:PRO:HB3	1.94	0.50
1:A6:86:ILE:HD12	1:A6:86:ILE:H	1.73	0.50
1:AH:239:PHE:CD1	3:DH:170:TYR:CD2	2.96	0.50
1:BH:239:PHE:CD1	3:ED:170:TYR:CD2	2.96	0.50
3:ED:97:PHE:CE1	3:ED:216:LEU:HD23	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:223:ASN:ND2	2:CM:223:ASN:N	2.60	0.50
3:DK:97:PHE:CE1	3:DK:216:LEU:HD23	2.47	0.50
3:D8:135:ARG:O	3:D8:138:ALA:N	2.45	0.50
3:DA:135:ARG:O	3:DA:138:ALA:N	2.45	0.50
3:DP:135:ARG:O	3:DP:138:ALA:N	2.45	0.50
3:D4:135:ARG:O	3:D4:138:ALA:N	2.45	0.50
4:F9:20:SER:HA	4:FD:25:PHE:O	187.26	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
3:DA:121:LEU:HD23	3:DA:121:LEU:O	2.12	0.50
3:DK:121:LEU:HD23	3:DK:121:LEU:O	2.12	0.50
4:F2:25:PHE:O	4:F3:20:SER:HA	2.12	0.50
3:DO:121:LEU:HD23	3:DO:121:LEU:O	2.12	0.50
4:F7:25:PHE:O	4:F8:20:SER:HA	2.12	0.50
4:FK:25:PHE:O	4:FL:20:SER:HA	2.12	0.50
4:FB:25:PHE:O	4:FC:20:SER:HA	2.12	0.50
3:EB:121:LEU:HD23	3:EB:121:LEU:O	2.12	0.50
3:D4:121:LEU:O	3:D4:121:LEU:HD23	2.12	0.50
3:DB:80:LEU:H	3:DB:80:LEU:HD12	1.77	0.50
3:DZ:80:LEU:H	3:DZ:80:LEU:HD12	1.77	0.50
4:F0:25:PHE:O	4:F1:20:SER:HA	2.12	0.50
3:DJ:80:LEU:HD12	3:DJ:80:LEU:H	1.77	0.50
3:ED:80:LEU:HD12	3:ED:80:LEU:H	1.77	0.50
3:DN:80:LEU:HD12	3:DN:80:LEU:H	1.77	0.50
1:A2:107:PHE:HE1	1:A2:196:LEU:HB2	1.76	0.50
1:A1:107:PHE:HE1	1:A1:196:LEU:HB2	1.76	0.50
1:BD:107:PHE:HE1	1:BD:196:LEU:HB2	1.76	0.50
1:AI:238:LYS:HA	3:DI:171:SER:O	2.12	0.50
1:AG:128:VAL:CG1	1:AH:89:LYS:HG2	2.42	0.50
1:AJ:128:VAL:CG1	1:AK:89:LYS:HG2	296.62	0.50
1:AO:128:VAL:CG1	1:AS:89:LYS:HG2	124.91	0.50
1:BE:128:VAL:CG1	1:BF:89:LYS:HG2	2.42	0.50
1:AL:171:TYR:N	1:AL:185:ASN:OD1	2.44	0.50
1:A3:171:TYR:N	1:A3:185:ASN:OD1	2.45	0.50
1:AD:128:VAL:CG1	1:AE:89:LYS:HG2	2.42	0.50
1:AG:171:TYR:N	1:AG:185:ASN:OD1	2.45	0.50
1:BD:150:ARG:HE	1:BD:150:ARG:H	1.60	0.50
1:AR:171:TYR:N	1:AR:185:ASN:OD1	2.45	0.50
2:C7:16:THR:HA	2:C7:24:ILE:O	2.11	0.49
2:CR:24:ILE:HG23	3:DI:145:VAL:HB	150.75	0.49
2:C5:16:THR:HA	2:C5:24:ILE:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CU:115:ASN:CA	3:D5:119:LYS:HZ3	257.23	0.49
2:C1:16:THR:HA	2:C1:24:ILE:O	2.11	0.49
2:CZ:115:ASN:CA	3:DQ:119:LYS:HZ3	89.06	0.49
2:CP:115:ASN:CA	3:D0:119:LYS:HZ3	91.23	0.49
1:AB:19:LEU:HD12	2:CC:48:SER:HB2	90.17	0.49
2:CK:48:SER:O	3:DL:159:PRO:HB2	2.12	0.49
2:CD:48:SER:O	3:D9:159:PRO:HB2	147.12	0.49
2:CO:48:SER:O	3:DP:159:PRO:HB2	38.58	0.49
2:CX:48:SER:O	3:DY:159:PRO:HB2	2.12	0.49
1:AF:82:LEU:HD23	1:AF:84:LEU:HD11	1.94	0.49
1:AJ:82:LEU:HD23	1:AJ:84:LEU:HD11	1.94	0.49
1:AM:210:ARG:HD2	3:DO:14:PHE:CZ	37.55	0.49
1:AN:82:LEU:HD23	1:AN:84:LEU:HD11	1.94	0.49
1:AP:40:VAL:HG22	1:AP:211:TYR:HE1	1.77	0.49
1:AV:106:TRP:O	1:AV:139:SER: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
3:DC:19:PRO:HG3	4:FC:17:ASN:ND2	2.26	0.49
3:DG:20:ASP:OD2	3:DJ:1:ALA:HB1	2.12	0.49
3:DH:19:PRO:HG3	4:FH:17:ASN:ND2	2.26	0.49
3:DL:20:ASP:OD2	3:DN:4:ARG:NH1	2.45	0.49
3:DO:4:ARG:NH1	3:DR:20:ASP:OD2	149.55	0.49
3:DR:20:ASP:OD2	3:DT:4:ARG:NH1	2.45	0.49
3:DU:19:PRO:HG3	4:FU:17:ASN:ND2	2.26	0.49
3:DW:1:ALA:HB1	3:DY:20:ASP:OD2	2.12	0.49
3:DE:19:PRO:HG3	4:FE:17:ASN:ND2	2.26	0.49
1:AZ:101:PHE:CD2	1:AZ:143:VAL:HG11	2.44	0.49
1:AZ:40:VAL:HG22	1:AZ:211:TYR:HE1	1.77	0.49
2:CC:140:LEU:HD22	2:CC:190:ASN:OD1	2.12	0.49
2:CE:140:LEU:HD22	2:CE:190:ASN:OD1	2.12	0.49
2:C3:80:ILE:HD11	2:C3:132:TYR:OH	2.11	0.49
1:AT:48:LEU:HD23	1:AT:198:THR:OG1	2.12	0.49
1:AR:48:LEU:HD23	1:AR:198:THR:OG1	2.12	0.49
1:A6:50:GLY:O	1:A6:131:GLN:NE2	2.43	0.49
1:AZ:50:GLY:O	1:AZ:131:GLN:NE2	2.43	0.49
1:AX:50:GLY:O	1:AX:131:GLN:NE2	2.43	0.49
2:CM:125:CYS:HB2	2:CM:199:LEU:HD11	1.94	0.49
1:A8:48:LEU:HD23	1:A8:198:THR:OG1	2.12	0.49
1:BA:181:LYS:O	1:BA:182:ALA:HB2	2.11	0.49
2:CP:125:CYS:HB2	2:CP:199:LEU:HD11	1.94	0.49
2:CI:149:ALA:O	2:CI:152:TYR:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D3:60:PRO:O	3:D3:61:TYR:HB3	2.11	0.49
2:CW:149:ALA:O	2:CW:152:TYR:N	2.45	0.49
1:BG:30:VAL:HG13	1:BG:218:MET:HE2	1.93	0.49
2:C0:149:ALA:O	2:C0:152:TYR:N	2.45	0.49
2:CL:84:PRO:HD2	2:CL:186:LEU:HD22	1.95	0.49
1:AG:79:PHE:CZ	3:DG:31:VAL:HG11	2.47	0.49
1:BB:181:LYS:O	1:BB:182:ALA:HB2	2.11	0.49
1:AW:79:PHE:CZ	3:DX:31:VAL:HG11	2.47	0.49
2:CJ:227:PRO:HB3	3:DK:132:PRO:HB3	276.46	0.49
3:DU:56:ILE:CD1	3:DU:56:ILE:N	2.75	0.49
2:CU:227:PRO:HB3	3:DV:132:PRO:HB3	1.94	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:D8:75:GLN:HG3	3:D8:184:GLN:HG2	1.93	0.49
1:A3:79:PHE:CZ	3:D4:31:VAL:HG11	2.47	0.49
2:CD:227:PRO:HB3	3:D9:132:PRO:HB3	152.81	0.49
3:DY:75:GLN:HG3	3:DY:184:GLN:HG2	1.93	0.49
2:CU:140:LEU:HD22	2:CU:190:ASN:OD1	2.12	0.49
3:ED:56:ILE:CD1	3:ED:56:ILE:N	2.75	0.49
2:CR:227:PRO:HB3	3:DS:132:PRO:HB3	1.94	0.49
3:EE:56:ILE:CD1	3:EE:56:ILE:N	2.75	0.49
3:DN:56:ILE:CD1	3:DN:56:ILE:N	2.75	0.49
2:CK:227:PRO:HB3	3:DL:132:PRO:HB3	1.94	0.49
2:CO:223:ASN:ND2	2:CO:223:ASN:N	2.60	0.49
3:DE:97:PHE:CE1	3:DE:216:LEU:HD23	2.47	0.49
2:CP:223:ASN:N	2:CP:223:ASN:ND2	2.60	0.49
3:DI:97:PHE:CE1	3:DI:216:LEU:HD23	2.47	0.49
3:DQ:97:PHE:CE1	3:DQ:216:LEU:HD23	2.47	0.49
3:EE:97:PHE:CE1	3:EE:216:LEU:HD23	2.47	0.49
3:DS:97:PHE:CE1	3:DS:216:LEU:HD23	2.47	0.49
2:CS:223:ASN:N	2:CS:223:ASN:ND2	2.61	0.49
2:CZ:223:ASN:ND2	2:CZ:223:ASN:N	2.60	0.49
3:D5:121:LEU:O	3:D5:121:LEU:HD23	2.12	0.49
4:FG:25:PHE:O	4:FH:20:SER:HA	2.12	0.49
3:DI:121:LEU:O	3:DI:121:LEU:HD23	2.12	0.49
4:F4:20:SER:HA	4:F8:25:PHE:O	2.12	0.49
3:EA:121:LEU:O	3:EA:121:LEU:HD23	2.12	0.49
3:DM:80:LEU:H	3:DM:80:LEU:HD12	1.77	0.49
3:D7:80:LEU:H	3:D7:80:LEU:HD12	1.77	0.49
1:A6:107:PHE:HE1	1:A6:196:LEU:HB2	1.76	0.49
1:AF:238:LYS:HA	3:DF:171:SER:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:238:LYS:HA	3:DF:171:SER:O	134.70	0.49
1:AG:238:LYS:HA	3:DI:171:SER:O	88.34	0.49
1:AA:89:LYS:HG2	1:AN:128:VAL:CG1	269.22	0.49
1:A4:238:LYS:HA	3:D5:171:SER:O	2.12	0.49
1:AI:128:VAL:CG1	1:AJ:89:LYS:HG2	2.42	0.49
1:AA:128:VAL:CG1	1:AB:89:LYS:HG2	2.42	0.49
1:BI:238:LYS:HA	3:EE:171:SER:O	2.12	0.49
1:A1:128:VAL:CG1	1:A2:89:LYS:HG2	2.42	0.49
1:A6:150:ARG:H	1:A6:150:ARG:HE	1.60	0.49
1:AI:150:ARG:HE	1:AI:150:ARG:H	1.60	0.49
1:A7:171:TYR:N	1:A7:185:ASN:OD1	2.45	0.49
1:AA:171:TYR:N	1:AA:185:ASN:OD1	2.45	0.49
2:CV:110:VAL:CG1	2:CV:215:VAL:HA	2.43	0.49
2:CY:115:ASN:CA	3:DZ:119:LYS:HZ3	2.25	0.49
2:CS:24:ILE:HG23	3:DC:145:VAL:HB	242.29	0.49
1:AO:19:LEU:HD12	2:CR:48:SER:HB2	148.27	0.49
2:CI:48:SER:O	3:DE:159:PRO:HB2	113.94	0.49
1:AB:82:LEU:HD23	1:AB:84:LEU:HD11	1.94	0.49
1:AG:82:LEU:HD23	1:AG:84:LEU:HD11	1.94	0.49
1:AM:40:VAL:HG22	1:AM:211:TYR:HE1	1.77	0.49
1:AM:82:LEU:HD23	1:AM:84:LEU:HD11	1.94	0.49
1:AR:82:LEU:HD23	1:AR:84:LEU:HD11	1.94	0.49
1:BB:101:PHE:CD2	1:BB:143:VAL:HG11	2.43	0.49
1:BC:82:LEU:HD23	1:BC:84:LEU:HD11	1.94	0.49
3:DB:20:ASP:OD2	3:DE:1:ALA:HB1	2.12	0.49
3:DG:20:ASP:OD2	3:DI:4:ARG:NH1	2.45	0.49
3:DH:20:ASP:OD2	3:DJ:4:ARG:NH1	2.45	0.49
3:DJ:20:ASP:OD2	3:DL:4:ARG:NH1	245.94	0.49
1:AO:210:ARG:HD2	3:DO:14:PHE:CZ	2.46	0.49
3:DP:20:ASP:OD2	3:DR:4:ARG:NH1	2.45	0.49
3:DP:4:ARG:NH1	3:DS:20:ASP:OD2	2.45	0.49
3:DU:20:ASP:OD2	3:DX:1:ALA:HB1	2.12	0.49
3:EA:20:ASP:OD2	3:ED:1:ALA:HB1	2.12	0.49
1:A7:40:VAL:HG22	1:A7:211:TYR:HE1	1.77	0.49
3:D1:20:ASP:OD2	3:D3:4:ARG:NH1	2.45	0.49
1:A6:187:LEU:HD12	1:A6:190:ALA:HB2	1.94	0.49
1:BB:187:LEU:HD12	1:BB:190:ALA:HB2	1.94	0.49
1:A6:88:PHE:CE1	1:A6:205:GLY:C	2.85	0.49
1:A6:40:VAL:HG22	1:A6:211:TYR:HE1	1.77	0.49
3:D5:4:ARG:NH1	3:D8:20:ASP:OD2	2.45	0.49
1:AP:187:LEU:HD12	1:AP:190:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:187:LEU:HD12	1:A7:190:ALA:HB2	1.94	0.49
1:A1:187:LEU:HD12	1:A1:190:ALA:HB2	1.94	0.49
2:CA:80:ILE:HD11	2:CA:132:TYR:OH	2.11	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:CK:125:CYS:HB2	2:CK:199:LEU:HD11	1.94	0.49
2:C4:125:CYS:HB2	2:C4:199:LEU:HD11	1.94	0.49
2:CH:125:CYS:HB2	2:CH:199:LEU:HD11	1.94	0.49
2:CR:125:CYS:HB2	2:CR:199:LEU:HD11	1.94	0.49
2:CY:125:CYS:HB2	2:CY:199:LEU:HD11	1.94	0.49
3:DY:60:PRO:O	3:DY:61:TYR:HB3	2.11	0.49
2:CT:149:ALA:O	2:CT:152:TYR:N	2.45	0.49
2:CX:153:GLN:HA	3:EE:53:PHE:HB2	182.92	0.49
2:C3:153:GLN:HA	3:D3:53:PHE:HB2	1.94	0.49
2:C5:153:GLN:HA	3:D5:53:PHE:HB2	1.93	0.49
1:AN:170:PHE:CD2	1:AN:222:ARG:CZ	2.87	0.49
2:C1:149:ALA:O	2:C1:152:TYR:N	2.45	0.49
2:CC:152:TYR:HE1	3:DC:60:PRO:HB3	1.78	0.49
3:D2:60:PRO:O	3:D2:61:TYR:HB3	2.11	0.49
2:C0:84:PRO:HD2	2:C0:186:LEU:HD22	1.95	0.49
2:C7:84:PRO:HD2	2:C7:186:LEU:HD22	1.94	0.49
1:AQ:79:PHE:CZ	3:DQ:31:VAL:HG11	2.47	0.49
1:A9:79:PHE:CZ	3:DA:31:VAL:HG11	220.70	0.49
1:AB:79:PHE:CZ	3:DD:31:VAL:HG11	60.44	0.49
2:CS:180:PRO:HD2	2:CS:189:HIS:HE1	1.76	0.49
2:CF:227:PRO:HB3	3:DG:132:PRO:HB3	1.94	0.49
1:AU:79:PHE:CZ	3:DV:31:VAL:HG11	2.47	0.49
3:DP:56:ILE:N	3:DP:56:ILE:CD1	2.75	0.49
3:EB:75:GLN:HG3	3:EB:184:GLN:HG2	1.93	0.49
2:C1:140:LEU:HD22	2:C1:190:ASN:OD1	2.12	0.49
2:C7:227:PRO:HB3	3:D8:132:PRO:HB3	1.94	0.49
2:CG:227:PRO:HB3	3:DH:132:PRO:HB3	1.94	0.49
2:CH:84:PRO:HD2	2:CH:186:LEU:HD22	1.95	0.49
2:C3:140:LEU:HD22	2:C3:190:ASN:OD1	2.12	0.49
3:DM:56:ILE:N	3:DM:56:ILE:CD1	2.75	0.49
3:DB:56:ILE:N	3:DB:56:ILE:CD1	2.75	0.49
1:AG:239:PHE:CD1	3:DG:170:TYR:CD2	2.96	0.49
1:A1:239:PHE:CD1	3:D2:170:TYR:CD2	2.96	0.49
1:AX:239:PHE:CD1	3:DY:170:TYR:CD2	2.96	0.49
2:CI:223:ASN:ND2	2:CI:223:ASN:N	2.61	0.49
2:CT:223:ASN:N	2:CT:223:ASN:ND2	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:97:PHE:CE1	3:D9:216:LEU:HD23	2.47	0.49
3:DV:97:PHE:CE1	3:DV:216:LEU:HD23	2.47	0.49
3:DM:97:PHE:CE1	3:DM:216:LEU:HD23	2.47	0.49
2:CH:223:ASN:ND2	2:CH:223:ASN:N	2.61	0.49
3:DO:97:PHE:CE1	3:DO:216:LEU:HD23	2.47	0.49
3:DA:97:PHE:CE1	3:DA:216:LEU:HD23	2.47	0.49
3:DD:97:PHE:CE1	3:DD:216:LEU:HD23	2.47	0.49
3:D0:135:ARG:O	3:D0:138:ALA:N	2.45	0.49
3:DS:135:ARG:O	3:DS:138:ALA:N	2.45	0.49
3:D3:135:ARG:O	3:D3:138:ALA:N	2.45	0.49
3:DZ:135:ARG:O	3:DZ:138:ALA:N	2.45	0.49
4:FD:25:PHE:O	4:FE:20:SER:HA	2.12	0.49
4:FO:25:PHE:O	4:FP:20:SER:HA	102.33	0.49
3:DG:121:LEU:HD23	3:DG:121:LEU:O	2.12	0.49
3:D1:121:LEU:O	3:D1:121:LEU:HD23	2.12	0.49
3:D8:121:LEU:HD23	3:D8:121:LEU:O	2.12	0.49
3:DU:121:LEU:HD23	3:DU:121:LEU:O	2.12	0.49
3:DK:80:LEU:H	3:DK:80:LEU:HD12	1.77	0.49
3:DO:80:LEU:HD12	3:DO:80:LEU:H	1.77	0.49
3:D9:80:LEU:HD12	3:D9:80:LEU:H	1.77	0.49
1:AY:107:PHE:HE1	1:AY:196:LEU:HB2	1.76	0.49
1:AF:238:LYS:HA	3:DH:171:SER:O	88.34	0.49
1:AH:238:LYS:HA	3:DH:171:SER:O	2.12	0.49
2:C6:140:LEU:HD22	2:C6:190:ASN:OD1	2.12	0.49
1:BE:238:LYS:HA	3:EA:171:SER:O	2.12	0.49
1:A4:128:VAL:CG1	1:A5:89:LYS:HG2	2.42	0.49
3:DP:102:GLY:HA3	3:DP:214:PHE:HA	1.93	0.49
1:A8:238:LYS:HA	3:D9:171:SER:O	2.12	0.49
1:A0:150:ARG:HE	1:A0:150:ARG:H	1.59	0.49
1:A9:150:ARG:HE	1:A9:150:ARG:H	1.59	0.49
1:BC:150:ARG:HE	1:BC:150:ARG:H	1.60	0.49
1:AZ:150:ARG:HE	1:AZ:150:ARG:H	1.59	0.49
2:C5:115:ASN:CA	3:DG:119:LYS:HZ3	2.24	0.49
2:CD:110:VAL:CG1	2:CD:215:VAL:HA	2.43	0.49
2:CA:48:SER:O	3:DB:159:PRO:HB2	2.12	0.49
1:AD:19:LEU:HD12	2:CC:48:SER:HB2	1.93	0.49
1:AA:19:LEU:HD12	2:CE:48:SER:HB2	1.93	0.49
3:DG:103:SER:HB3	3:DG:159:PRO:CA	2.35	0.49
2:C5:48:SER:O	3:D6:159:PRO:HB2	2.12	0.49
1:AE:101:PHE:CD2	1:AE:143:VAL:HG11	2.44	0.49
1:AH:82:LEU:HD23	1:AH:84:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:40:VAL:HG22	1:AI:211:TYR:HE1	1.77	0.49
1:AK:40:VAL:HG22	1:AK:211:TYR:HE1	1.77	0.49
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:BI:82:LEU:HD23	1:BI:84:LEU:HD11	1.94	0.49
3:D9:3:ILE:HG22	3:D9:4:ARG:N	2.27	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: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:ED:3:ILE:HG22	3:ED:4:ARG:N	2.27	0.49
3:EE:3:ILE:HG22	3:EE:4:ARG:N	2.27	0.49
3:DG:19:PRO:HG3	4:FG:17:ASN:ND2	2.26	0.49
3:D5:20:ASP:OD2	3:D8:1:ALA:HB1	2.12	0.49
1:AV:40:VAL:HG22	1:AV:211:TYR:HE1	1.77	0.49
1:A4:40:VAL:HG22	1:A4:211:TYR:HE1	1.77	0.49
3:D5:1:ALA:HB1	3:D7:20:ASP:OD2	2.12	0.49
1:A2:82:LEU:HD23	1:A2:84:LEU:HD11	1.94	0.49
3:D1:19:PRO:HG3	4:F1:17:ASN:ND2	2.26	0.49
1:BH:187:LEU:HD12	1:BH:190:ALA:HB2	1.94	0.49
1:AI:187:LEU:HD12	1:AI:190:ALA:HB2	1.94	0.49
2:C8:135:THR:HB	2:C8:139:ALA:CA	2.41	0.49
1:AT:50:GLY:O	1:AT:131:GLN:NE2	2.43	0.49
1:AO:48:LEU:HD23	1:AO:198:THR:OG1	2.12	0.49
1:BI:48:LEU:HD23	1:BI:198:THR:OG1	2.12	0.49
2:CA:125:CYS:HB2	2:CA:199:LEU:HD11	1.94	0.49
2:CM:152:TYR:HE1	3:DM:60:PRO:HB3	1.78	0.49
2:CN:149:ALA:O	2:CN:152:TYR:N	2.45	0.49
2:CU:152:TYR:HE1	3:DU:60:PRO:HB3	1.78	0.49
1:AO:170:PHE:CD2	1:AO:222:ARG:CZ	2.87	0.49
2:CR:153:GLN:HA	3:DR:53:PHE:HB2	1.94	0.49
2:CK:152:TYR:HE1	3:DK:60:PRO:HB3	1.78	0.49
2:CC:149:ALA:O	2:CC:152:TYR:N	2.45	0.49
1:AP:170:PHE:CD2	1:AP:222:ARG:CZ	2.87	0.49
2:C8:84:PRO:HD2	2:C8:186:LEU:HD22	1.94	0.49
2:C2:84:PRO:HD2	2:C2:186:LEU:HD22	1.94	0.49
1:AC:79:PHE:CZ	3:DE:31:VAL:HG11	60.44	0.49
1:AE:79:PHE:CZ	3:DE:31:VAL:HG11	2.47	0.49
1:AK:79:PHE:CZ	3:DM:31:VAL:HG11	60.44	0.49
1:AN:79:PHE:CZ	3:DN:31:VAL:HG11	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:79:PHE:CZ	3:DJ:31:VAL:HG11	2.47	0.49
2:C9:84:PRO:HD2	2:C9:186:LEU:HD22	1.95	0.49
3:EB:56:ILE:CD1	3:EB:56:ILE:N	2.75	0.49
1:BH:79:PHE:CZ	3:ED:31:VAL:HG11	2.47	0.49
2:CV:227:PRO:HB3	3:ED:132:PRO:HB3	262.97	0.49
3:ED:75:GLN:HG3	3:ED:184:GLN:HG2	1.93	0.49
1:AT:86:ILE:H	1:AT:86:ILE:HD12	1.73	0.49
1:AB:239:PHE:CD1	3:DD:170:TYR:CD2	81.72	0.49
3:DP:97:PHE:CE1	3:DP:216:LEU:HD23	2.47	0.49
3:DG:97:PHE:CE1	3:DG:216:LEU:HD23	2.47	0.49
3:D4:97:PHE:CE1	3:D4:216:LEU:HD23	2.47	0.49
3:DJ:97:PHE:CE1	3:DJ:216:LEU:HD23	2.47	0.49
2:C7:223:ASN:ND2	2:C7:223:ASN:N	2.60	0.49
3:DD:135:ARG:O	3:DD:138:ALA:N	2.45	0.49
3:DJ:135:ARG:O	3:DJ:138:ALA:N	2.45	0.49
4:FJ:20:SER:HA	4:FN:25:PHE:O	233.12	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	102.33	0.49
4:FT:25:PHE:O	4:FU:20:SER:HA	194.62	0.49
3:DM:121:LEU:HD23	3:DM:121:LEU:O	2.12	0.49
3:D7:121:LEU:O	3:D7:121:LEU:HD23	2.12	0.49
3:DP:121:LEU:HD23	3:DP:121:LEU:O	2.12	0.49
3:D2:121:LEU:HD23	3:D2:121:LEU:O	2.12	0.49
1:AH:238:LYS:HA	3:DJ:171:SER:O	88.34	0.49
1:AO:238:LYS:HA	3:DO:171:SER:O	2.12	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:BG:171:TYR:N	1:BG:185:ASN:OD1	2.45	0.49
3:D4:102:GLY:HA3	3:D4:214:PHE:HA	1.93	0.49
1:A6:171:TYR:N	1:A6:185:ASN:OD1	2.45	0.49
1:AU:128:VAL:CG1	1:AV:89:LYS:HG2	2.42	0.49
1:A1:238:LYS:HA	3:D2:171:SER:O	2.12	0.49
1:AM:128:VAL:CG1	1:BA:89:LYS:HG2	236.12	0.49
3:DU:102:GLY:HA3	3:DU:214:PHE:HA	1.93	0.49
1:BC:128:VAL:CG1	1:BD:89:LYS:HG2	2.42	0.49
2:CR:115:ASN:CA	3:EE:119:LYS:HZ3	2.26	0.49
2:CL:115:ASN:CA	3:D8:119:LYS:HZ3	112.72	0.49
2:CQ:110:VAL:CG1	2:CQ:215:VAL:HA	2.43	0.49
2:CE:110:VAL:CG1	2:CE:215:VAL:HA	2.43	0.49
2:CS:115:ASN:CA	3:EA:119:LYS:HZ3	160.37	0.49
1:AA:19:LEU:HD12	2:CB:48:SER:HB2	90.17	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:19:LEU:HD12	2:CO:48:SER:HB2	150.56	0.49
1:AN:19:LEU:HD12	2:CM:48:SER:HB2	1.93	0.49
2:CM:48:SER:O	3:DN:159:PRO:HB2	2.12	0.49
3:DL:103:SER:HB3	3:DL:159:PRO:CA	2.35	0.49
2:CZ:48:SER:O	3:D0:159:PRO:HB2	2.12	0.49
1:A8:88:PHE:CE1	1:A8:205:GLY:C	2.84	0.49
1:A9:40:VAL:HG22	1:A9:211:TYR:HE1	1.77	0.49
1:AE:82:LEU:HD23	1:AE:84:LEU:HD11	1.94	0.49
1:AQ:82:LEU:HD23	1:AQ:84:LEU:HD11	1.94	0.49
1:AS:82:LEU:HD23	1:AS:84:LEU:HD11	1.94	0.49
1:BD:40:VAL:HG22	1:BD:211:TYR:HE1	1.77	0.49
1:AB:157:SER:CB	3:DB:24:PRO:HA	2.35	0.49
3:DB:20:ASP:OD2	3:DD:4:ARG:NH1	2.45	0.49
3:DJ:1:ALA:HB1	3:DL:20:ASP:OD2	242.92	0.49
3:DO:20:ASP:OD2	3:DR:1:ALA:HB1	107.35	0.49
3:DQ:20:ASP:OD2	3:DT:1:ALA:HB1	2.12	0.49
3:DS:3:ILE:HG22	3:DS:4:ARG:N	2.27	0.49
3:DV:3:ILE:HG22	3:DV:4:ARG:N	2.27	0.49
3:EB:1:ALA:HB1	3:ED:20:ASP:OD2	2.12	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
3:D1:1:ALA:HB1	3:D3:20:ASP:OD2	2.12	0.49
1:AZ:187:LEU:HD12	1:AZ:190:ALA:HB2	1.94	0.49
1:AJ:187:LEU:HD12	1:AJ:190:ALA:HB2	1.95	0.49
1:AF:187:LEU:HD12	1:AF:190:ALA:HB2	1.94	0.49
1:A3:187:LEU:HD12	1:A3:190:ALA:HB2	1.94	0.49
1:A2:187:LEU:HD12	1:A2:190:ALA:HB2	1.94	0.49
1:AW:187:LEU:HD12	1:AW:190:ALA:HB2	1.94	0.49
2:CO:135:THR:HB	2:CO:139:ALA:CA	2.41	0.49
1:BH:50:GLY:O	1:BH:131:GLN:NE2	2.43	0.49
1:A7:48:LEU:HD23	1:A7:198:THR:OG1	2.12	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
1:AY:48:LEU:HD23	1:AY:198:THR:OG1	2.12	0.49
2:C2:125:CYS:HB2	2:C2:199:LEU:HD11	1.94	0.49
2:CI:226:LEU:CD2	3:DJ:126:PRO:HG2	2.36	0.49
2:C5:226:LEU:CD2	3:D6:126:PRO:HG2	2.36	0.49
2:CM:149:ALA:O	2:CM:152:TYR:N	2.45	0.49
2:CH:153:GLN:HA	3:DH:53:PHE:HB2	1.94	0.49
2:CU:153:GLN:HA	3:DU:53:PHE:HB2	1.93	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)
2:CG:149:ALA:O	2:CG:152:TYR:N	2.45	0.49
2:CR:152:TYR:HE1	3:DR:60:PRO:HB3	1.78	0.49
2:C9:153:GLN:HA	3:D9:53:PHE:HB2	1.94	0.49
3:D5:60:PRO:O	3:D5:61:TYR:HB3	2.11	0.49
2:C6:226:LEU:CD2	3:D7:126:PRO:HG2	2.36	0.49
2:CS:152:TYR:HE1	3:DS:60:PRO:HB3	1.78	0.49
2:CB:149:ALA:O	2:CB:152:TYR:N	2.45	0.49
2:C1:153:GLN:HA	3:D1:53:PHE:HB2	1.94	0.49
2:CO:149:ALA:O	2:CO:152:TYR:N	2.45	0.49
2:C7:153:GLN:HA	3:D7:53:PHE:HB2	1.94	0.49
2:CD:152:TYR:HE1	3:DD:60:PRO:HB3	1.78	0.49
1:A3:170:PHE:CD2	1:A3:222:ARG:CZ	2.87	0.49
2:CD:84:PRO:HD2	2:CD:186:LEU:HD22	1.95	0.49
2:C1:84:PRO:HD2	2:C1:186:LEU:HD22	1.94	0.49
2:CP:84:PRO:HD2	2:CP:186:LEU:HD22	1.94	0.49
2:C6:84:PRO:HD2	2:C6:186:LEU:HD22	1.95	0.49
2:CN:84:PRO:HD2	2:CN:186:LEU:HD22	1.95	0.49
2:CO:84:PRO:HD2	2:CO:186:LEU:HD22	1.95	0.49
1:AO:79:PHE:CZ	3:DS:31:VAL:HG11	95.19	0.49
1:AN:79:PHE:CZ	3:DB:31:VAL:HG11	189.72	0.49
1:AY:79:PHE:CZ	3:DZ:31:VAL:HG11	2.47	0.49
2:C9:186:LEU:HD23	2:C9:186:LEU:O	2.11	0.49
2:CV:84:PRO:HD2	2:CV:186:LEU:HD22	1.94	0.49
1:A4:79:PHE:CZ	3:D5:31:VAL:HG11	2.47	0.49
1:AX:79:PHE:CZ	3:DY:31:VAL:HG11	2.47	0.49
1:A5:79:PHE:CZ	3:D6:31:VAL:HG11	2.47	0.49
2:C9:227:PRO:HB3	3:DA:132:PRO:HB3	236.00	0.49
3:DF:75:GLN:HG3	3:DF:184:GLN:HG2	1.93	0.49
1:A0:79:PHE:CZ	3:D1:31:VAL:HG11	2.47	0.49
2:C2:135:THR:HB	2:C2:139:ALA:CA	2.41	0.49
3:D5:56:ILE:CD1	3:D5:56:ILE:N	2.75	0.49
3:D1:56:ILE:CD1	3:D1:56:ILE:N	2.75	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
2:CL:227:PRO:HB3	3:DM:132:PRO:HB3	1.94	0.49
3:DS:56:ILE:N	3:DS:56:ILE:CD1	2.75	0.49
2:CW:227:PRO:HB3	3:DX:132:PRO:HB3	1.94	0.49
2:CM:227:PRO:HB3	3:DN:132:PRO:HB3	1.94	0.49
2:CZ:140:LEU:HD22	2:CZ:190:ASN:OD1	2.12	0.49
2:CA:227:PRO:HB3	3:DB:132:PRO:HB3	1.94	0.49
2:CF:223:ASN:ND2	2:CF:223:ASN:N	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:97:PHE:CE1	3:D2:216:LEU:HD23	2.47	0.49
3:DZ:97:PHE:CE1	3:DZ:216:LEU:HD23	2.47	0.49
3:DL:97:PHE:CE1	3:DL:216:LEU:HD23	2.47	0.49
3:D5:135:ARG:O	3:D5:138:ALA:N	2.45	0.49
3:D1:135:ARG:O	3:D1:138:ALA:N	2.45	0.49
4:FR:25:PHE:O	4:FS:20:SER:HA	2.12	0.49
4:FA:20:SER:HA	4:FE:25:PHE:O	2.12	0.49
4:FJ:25:PHE:O	4:FK:20:SER:HA	233.82	0.49
4:FP:20:SER:HA	4:FT:25:PHE:O	2.12	0.49
3:DS:121:LEU:HD23	3:DS:121:LEU:O	2.12	0.49
4:FC:25:PHE:O	4:FD:20:SER:HA	2.12	0.49
3:DY:121:LEU:HD23	3:DY:121:LEU:O	2.12	0.49
3:EC:121:LEU:HD23	3:EC:121:LEU:O	2.12	0.49
4:FW:25:PHE:O	4:FX:20:SER:HA	2.12	0.49
3:EE:121:LEU:O	3:EE:121:LEU:HD23	2.12	0.49
3:D4:80:LEU:HD12	3:D4:80:LEU:H	1.77	0.49
3:DC:80:LEU:HD12	3:DC:80:LEU:H	1.77	0.49
3:DV:80:LEU:HD12	3:DV:80:LEU:H	1.77	0.49
1:AJ:238:LYS:HA	3:DL:171:SER:O	281.31	0.49
1:AH:89:LYS:HG2	1:AL:128:VAL:CG1	297.97	0.49
1:AP:128:VAL:CG1	1:AQ:89:LYS:HG2	2.42	0.49
3:EC:102:GLY:HA3	3:EC:214:PHE:HA	1.93	0.49
1:BF:238:LYS:HA	3:EB:171:SER:O	2.12	0.49
1:AV:238:LYS:HA	3:DW:171:SER:O	2.12	0.49
1:BH:238:LYS:HA	3:ED:171:SER:O	2.12	0.49
1:A0:89:LYS:HG2	1:AZ:128:VAL:CG1	2.42	0.49
1:A8:128:VAL:CG1	1:A9:89:LYS:HG2	2.42	0.49
1:AP:238:LYS:HA	3:DP:171:SER:O	2.12	0.49
1:AZ:171:TYR:N	1:AZ:185:ASN:OD1	2.45	0.49
1:A9:171:TYR:N	1:A9:185:ASN:OD1	2.45	0.49
2:CH:110:VAL:CG1	2:CH:215:VAL:HA	2.43	0.49
2:CI:110:VAL:CG1	2:CI:215:VAL:HA	2.43	0.49
2:CX:115:ASN:CA	3:DR:119:LYS:HZ3	155.09	0.49
2:CP:110:VAL:CG1	2:CP:215:VAL:HA	2.43	0.49
1:AL:19:LEU:HD12	2:CM:48:SER:HB2	90.17	0.49
2:CI:48:SER:O	3:DJ:159:PRO:HB2	2.12	0.49
1:AS:19:LEU:HD12	2:CS:48:SER:HB2	1.93	0.49
2:CT:48:SER:O	3:DP:159:PRO:HB2	2.12	0.49
2:C0:48:SER:O	3:D1:159:PRO:HB2	2.12	0.49
2:CQ:48:SER:O	3:DR:159:PRO:HB2	2.12	0.49
1:AU:40:VAL:HG22	1:AU:211:TYR:HE1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:4:ARG:NH1	3:DC:20:ASP:OD2	210.89	0.49
3:DL:4:ARG:NH1	3:DO:20:ASP:OD2	2.45	0.49
3:DO:20:ASP:OD2	3:DQ:4:ARG:NH1	110.53	0.49
3:DM:20:ASP:OD2	3:DO:4:ARG:NH1	2.45	0.49
3:DT:3:ILE:HG22	3:DT:4:ARG:N	2.27	0.49
3:D6:3:ILE:HG22	3:D6:4:ARG:N	2.27	0.49
3:D4:20:ASP:OD2	3:D6:4:ARG:NH1	2.45	0.49
3:EB:4:ARG:NH1	3:EE:20:ASP:OD2	2.45	0.49
3:D7:19:PRO:HG3	4:F7:17:ASN:ND2	2.26	0.49
3:D2:20:ASP:OD2	3:DZ:4:ARG:NH1	2.45	0.49
1:AL:187:LEU:HD12	1:AL:190:ALA:HB2	1.94	0.49
1:AD:187:LEU:HD12	1:AD:190:ALA:HB2	1.94	0.49
1:A4:187:LEU:HD12	1:A4:190:ALA:HB2	1.94	0.49
1:BA:187:LEU:HD12	1:BA:190:ALA:HB2	1.94	0.49
1:AT:187:LEU:HD12	1:AT:190:ALA:HB2	1.94	0.49
2:CI:140:LEU:HD22	2:CI:190:ASN:OD1	2.12	0.49
2:CP:149:ALA:O	2:CP:152:TYR:N	2.45	0.49
2:CP:152:TYR:CE1	3:DP:60:PRO:HG3	2.48	0.49
2:CF:152:TYR:HE1	3:DF:60:PRO:HB3	1.78	0.49
2:CU:152:TYR:HE1	3:EB:60:PRO:HB3	249.61	0.49
2:CJ:153:GLN:HA	3:DJ:53:PHE:HB2	1.93	0.49
2:C9:152:TYR:CE1	3:D9:60:PRO:HG3	2.48	0.49
2:CK:149:ALA:O	2:CK:152:TYR:N	2.45	0.49
2:C5:149:ALA:O	2:C5:152:TYR:N	2.45	0.49
2:CZ:149:ALA:O	2:CZ:152:TYR:N	2.45	0.49
2:C6:149:ALA:O	2:C6:152:TYR:N	2.45	0.49
2:C8:152:TYR:CE1	3:D8:60:PRO:HG3	2.48	0.49
1:AD:79:PHE:CZ	3:DD:31:VAL:HG11	2.47	0.49
1:AD:79:PHE:CZ	3:DF:31:VAL:HG11	106.60	0.49
1:BE:79:PHE:CZ	3:EA:31:VAL:HG11	2.47	0.49
2:CW:84:PRO:HD2	2:CW:186:LEU:HD22	1.95	0.49
2:C4:84:PRO:HD2	2:C4:186:LEU:HD22	1.95	0.49
2:CE:227:PRO:HB3	3:DF:132:PRO:HB3	29.81	0.49
2:CO:227:PRO:HB3	3:DP:132:PRO:HB3	29.81	0.49
2:C6:227:PRO:HB3	3:D7:132:PRO:HB3	1.94	0.49
2:C5:140:LEU:HD22	2:C5:190:ASN:OD1	2.12	0.49
1:BC:79:PHE:CZ	3:DR:31:VAL:HG11	137.31	0.49
2:CD:227:PRO:HB3	3:DE:132:PRO:HB3	1.94	0.49
1:A2:79:PHE:CZ	3:D3:31:VAL:HG11	2.47	0.49
3:DN:97:PHE:CE1	3:DN:216:LEU:HD23	2.47	0.49
3:D5:97:PHE:CE1	3:D5:216:LEU:HD23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:223:ASN:ND2	2:CV:223:ASN:N	2.60	0.49
2:CL:223:ASN:N	2:CL:223:ASN:ND2	2.60	0.49
3:DU:97:PHE:CE1	3:DU:216:LEU:HD23	2.47	0.49
2:C0:223:ASN:ND2	2:C0:223:ASN:N	2.60	0.49
3:DO:135:ARG:O	3:DO:138:ALA:N	2.45	0.49
4:F9:25:PHE:O	4:FA:20:SER:HA	200.07	0.49
4:FM:25:PHE:O	4:FN:20:SER:HA	2.12	0.49
3:DR:121:LEU:O	3:DR:121:LEU:HD23	2.12	0.49
3:DR:80:LEU:H	3:DR:80:LEU:HD12	1.77	0.49
3:DA:80:LEU:H	3:DA:80:LEU:HD12	1.77	0.49
3:EC:80:LEU:H	3:EC:80:LEU:HD12	1.77	0.49
3:DX:80:LEU:HD12	3:DX:80:LEU:H	1.77	0.49
3:DG:80:LEU:HD12	3:DG:80:LEU:H	1.77	0.49
1:AW:107:PHE:HE1	1:AW:196:LEU:HB2	1.76	0.49
1:BB:238:LYS:HA	3:DQ:171:SER:O	118.14	0.49
1:AC:238:LYS:HA	3:DC:171:SER:O	2.12	0.49
1:AM:89:LYS:HG2	1:BD:128:VAL:CG1	257.85	0.49
1:AK:89:LYS:HG2	1:AO:128:VAL:CG1	2.42	0.49
1:AN:128:VAL:CG1	1:AO:89:LYS:HG2	2.42	0.49
1:AB:171:TYR:N	1:AB:185:ASN:OD1	2.45	0.49
1:AT:238:LYS:HA	3:DU:171:SER:O	2.12	0.49
1:AU:171:TYR:N	1:AU:185:ASN:OD1	2.45	0.49
1:A5:238:LYS:HA	3:D6:171:SER:O	2.12	0.49
1:AU:238:LYS:HA	3:DV:171:SER:O	2.12	0.49
1:BC:171:TYR:N	1:BC:185:ASN:OD1	2.45	0.49
1:AK:128:VAL:CG1	1:AL:89:LYS:HG2	2.42	0.49
3:D7:102:GLY:HA3	3:D7:214:PHE:HA	1.93	0.49
1:AY:171:TYR:N	1:AY:185:ASN:OD1	2.45	0.49
1:A2:238:LYS:HA	3:D3:171:SER:O	2.12	0.49
2:CK:110:VAL:CG1	2:CK:215:VAL:HA	2.43	0.49
2:CU:110:VAL:CG1	2:CU:215:VAL:HA	2.43	0.49
2:CX:110:VAL:CG1	2:CX:215:VAL:HA	2.43	0.49
2:C1:115:ASN:CA	3:DO:119:LYS:HZ3	2.25	0.49
2:CA:110:VAL:CG1	2:CA:215:VAL:HA	2.43	0.49
2:C6:110:VAL:CG1	2:C6:215:VAL:HA	2.43	0.49
1:AN:19:LEU:HD12	2:CA:48:SER:HB2	177.71	0.49
1:AI:19:LEU:HD12	2:CH:48:SER:HB2	1.93	0.49
2:CJ:48:SER:O	3:DF:159:PRO:HB2	2.12	0.49
2:CN:48:SER:O	3:DO:159:PRO:HB2	2.12	0.49
2:CE:48:SER:O	3:DA:159:PRO:HB2	2.12	0.49
2:CN:48:SER:O	3:DJ:159:PRO:HB2	228.18	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:101:ARG:HA	3:DL:160:TYR:CE2	2.48	0.49
2:CW:48:SER:O	3:EE:159:PRO:HB2	186.13	0.49
3:EA:101:ARG:HA	3:EA:160:TYR:CE2	2.48	0.49
2:CV:48:SER:O	3:DW:159:PRO:HB2	2.12	0.49
1:AC:121:LEU:HD23	1:AD:42:THR:OG1	2.13	0.49
1:AA:42:THR:OG1	1:AE:121:LEU:HD23	2.13	0.49
1:AP:42:THR:OG1	1:AS:121:LEU:HD23	2.13	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: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
3:DA:20:ASP:OD2	3:DD:1:ALA:HB1	2.12	0.49
3:DL:20:ASP:OD2	3:DO:1:ALA:HB1	2.12	0.49
3:DJ:4:ARG:NH1	3:DM:20:ASP:OD2	246.15	0.49
3:DN:3:ILE:HG22	3:DN:4:ARG:N	2.27	0.49
3:DO:1:ALA:HB1	3:DQ:20:ASP:OD2	141.12	0.49
3:EA:4:ARG:NH1	3:ED:20:ASP:OD2	2.45	0.49
3:DJ:19:PRO:HG3	4:FJ:17:ASN:ND2	2.26	0.49
3:D4:20:ASP:OD2	3:D7:1:ALA:HB1	2.12	0.49
3:DV:1:ALA:HB1	3:DX:20:ASP:OD2	2.12	0.49
1:A1:82:LEU:HD23	1:A1:84:LEU:HD11	1.94	0.49
1:AK:187:LEU:HD12	1:AK:190:ALA:HB2	1.94	0.49
1:AY:187:LEU:HD12	1:AY:190:ALA:HB2	1.94	0.49
2:C9:125:CYS:HB2	2:C9:199:LEU:HD11	1.94	0.49
1:A5:50:GLY:O	1:A5:131:GLN:NE2	2.43	0.49
2:C0:125:CYS:HB2	2:C0:199:LEU:HD11	1.94	0.49
2:C6:125:CYS:HB2	2:C6:199:LEU:HD11	1.94	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:CN:152:TYR:CE1	3:DN:60:PRO:HG3	2.48	0.49
2:CL:149:ALA:O	2:CL:152:TYR:N	2.45	0.49
2:CG:152:TYR:CE1	3:DG:60:PRO:HG3	2.48	0.49
1:AA:170:PHE:CD2	1:AA:222:ARG:CZ	2.87	0.49
1:AK:170:PHE:CD2	1:AK:222:ARG:CZ	2.87	0.49
1:AO:30:VAL:HG13	1:AO:218:MET:HE2	1.97	0.49
2:C9:149:ALA:O	2:C9:152:TYR:N	2.45	0.49
2:C4:153:GLN:HA	3:D4:53:PHE:HB2	1.94	0.49
2:CS:149:ALA:O	2:CS:152:TYR:N	2.45	0.49
2:C6:152:TYR:CE1	3:D6:60:PRO:HG3	2.48	0.49
2:C2:153:GLN:HA	3:D2:53:PHE:HB2	1.94	0.49
2:CC:84:PRO:HD2	2:CC:186:LEU:HD22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:84:PRO:HD2	2:CX:186:LEU:HD22	1.95	0.49
1:AA:79:PHE:CZ	3:DC:31:VAL:HG11	60.43	0.49
1:AK:79:PHE:CZ	3:DK:31:VAL:HG11	2.47	0.49
1:AG:79:PHE:CZ	3:DI:31:VAL:HG11	60.44	0.49
1:AP:79:PHE:CZ	3:DP:31:VAL:HG11	2.47	0.49
2:CJ:227:PRO:HB3	3:DF:132:PRO:HB3	1.94	0.49
1:A7:79:PHE:CZ	3:D8:31:VAL:HG11	2.47	0.49
3:DZ:56:ILE:CD1	3:DZ:56:ILE:N	2.75	0.49
2:CB:227:PRO:HB3	3:DC:132:PRO:HB3	1.94	0.49
3:EA:56:ILE:N	3:EA:56:ILE:CD1	2.75	0.49
2:CC:227:PRO:HB3	3:DD:132:PRO:HB3	1.94	0.49
2:CS:195:VAL:C	2:CS:196:ILE:HG13	2.33	0.49
1:AF:239:PHE:CD1	3:DH:170:TYR:CD2	81.72	0.49
2:CE:223:ASN:N	2:CE:223:ASN:ND2	2.60	0.49
2:CC:223:ASN:N	2:CC:223:ASN:ND2	2.60	0.49
3:DH:97:PHE:CE1	3:DH:216:LEU:HD23	2.47	0.49
3:DC:97:PHE:CE1	3:DC:216:LEU:HD23	2.47	0.49
3:D3:97:PHE:CE1	3:D3:216:LEU:HD23	2.48	0.49
3:DX:135:ARG:O	3:DX:138:ALA:N	2.45	0.49
4:FU:20:SER:HA	4:FY:25:PHE:O	2.12	0.49
3:DZ:121:LEU:O	3:DZ:121:LEU:HD23	2.12	0.49
3:DL:121:LEU:HD23	3:DL:121:LEU:O	2.12	0.49
3:ED:121:LEU:O	3:ED:121:LEU:HD23	2.12	0.49
3:DI:80:LEU:HD12	3:DI:80:LEU:H	1.77	0.49
1:BH:107:PHE:HE1	1:BH:196:LEU:HB2	1.76	0.49
1:AN:238:LYS:HA	3:DN:171:SER:O	2.12	0.49
1:AM:238:LYS:HA	3:DO:171:SER:O	88.34	0.49
1:A9:128:VAL:CG1	1:AN:89:LYS:HG2	160.17	0.49
1:BB:128:VAL:CG1	1:BC:89:LYS:HG2	2.42	0.49
1:BA:128:VAL:CG1	1:BB:89:LYS:HG2	2.42	0.49
1:AA:150:ARG:H	1:AA:150:ARG:HE	1.59	0.49
1:A7:150:ARG:H	1:A7:150:ARG:HE	1.59	0.49
3:DR:130:ALA:O	3:DR:131:ALA:HB3	2.13	0.49
1:AF:128:VAL:CG1	1:AG:89:LYS:HG2	2.42	0.49
2:CR:110:VAL:CG1	2:CR:215:VAL:HA	2.43	0.49
2:CN:110:VAL:CG1	2:CN:215:VAL:HA	2.43	0.49
1:AH:19:LEU:HD12	2:CN:48:SER:HB2	230.31	0.49
2:CE:49:ASP:CB	3:DF:161:SER:HB3	33.99	0.49
3:DC:101:ARG:HA	3:DC:160:TYR:CE2	2.48	0.49
2:CI:46:THR:CG2	3:DE:165:ASP:HA	119.96	0.49
3:DI:101:ARG:HA	3:DI:160:TYR:CE2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:103:SER:HB3	3:DJ:159:PRO:CA	2.35	0.49
2:C2:48:SER:O	3:D3:159:PRO:HB2	2.12	0.49
3:D7:101:ARG:HA	3:D7:160:TYR:CE2	2.48	0.49
3:D2:103:SER:HB3	3:D2:159:PRO:CA	2.35	0.49
1:AA:121:LEU:HD23	1:AB:42:THR:OG1	2.13	0.49
1:AJ:101:PHE:CD2	1:AJ:143:VAL:HG11	2.44	0.49
1:AH:42:THR:OG1	1:AL:121:LEU:HD23	290.12	0.49
1:AL:82:LEU:HD23	1:AL:84:LEU:HD11	1.94	0.49
1:AO:40:VAL:HG22	1:AO:211:TYR:HE1	1.77	0.49
1:AP:82:LEU:HD23	1:AP:84:LEU:HD11	1.94	0.49
1:AO:42:THR:OG1	1:AR:121:LEU:HD23	135.48	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:AX:40:VAL:HG22	1:AX:211:TYR:HE1	1.77	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
3:DB:19:PRO:HG3	4:FB:17:ASN:ND2	2.26	0.49
1:A3:40:VAL:HG22	1:A3:211:TYR:HE1	1.77	0.49
3:D6:20:ASP:OD2	3:D8:4:ARG:NH1	2.45	0.49
3:D8:3:ILE:HG22	3:D8:4:ARG:N	2.27	0.49
1:AS:187:LEU:HD12	1:AS:190:ALA:HB2	1.94	0.49
2:C6:80:ILE:HD11	2:C6:132:TYR:OH	2.11	0.49
1:BB:50:GLY:O	1:BB:131:GLN:NE2	2.43	0.49
2:CP:140:LEU:HD22	2:CP:190:ASN:OD1	2.12	0.49
2:CV:125:CYS:HB2	2:CV:199:LEU:HD11	1.94	0.49
1:A4:48:LEU:HD23	1:A4:198:THR:OG1	2.12	0.49
1:AY:50:GLY:O	1:AY:131:GLN:NE2	2.43	0.49
1:AV:48:LEU:HD23	1:AV:198:THR:OG1	2.12	0.49
1:AS:48:LEU:HD23	1:AS:198:THR:OG1	2.11	0.49
2:CY:152:TYR:HE1	3:DY:60:PRO:HB3	1.78	0.49
2:CV:200:SER:HA	3:DV:61:TYR:CE2	2.48	0.49
2:CV:200:SER:HA	3:EC:61:TYR:CE2	266.35	0.49
2:CF:152:TYR:CE1	3:DF:60:PRO:HG3	2.48	0.49
2:CT:153:GLN:HA	3:EA:53:PHE:HB2	190.52	0.49
2:CX:152:TYR:CE1	3:DX:60:PRO:HG3	2.48	0.49
2:CX:152:TYR:HE1	3:EE:60:PRO:HB3	185.79	0.49
1:AG:170:PHE:CD2	1:AG:222:ARG:CZ	2.87	0.49
2:C9:152:TYR:HE1	3:D9:60:PRO:HB3	1.77	0.49
2:CH:226:LEU:CD2	3:DI:126:PRO:HG2	2.36	0.49
2:CK:152:TYR:CE1	3:DK:60:PRO:HG3	2.48	0.49
2:C8:226:LEU:CD2	3:D4:126:PRO:HG2	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CO:152:TYR:CE1	3:DO:60:PRO:HG3	2.48	0.49
2:CC:152:TYR:CE1	3:DC:60:PRO:HG3	2.48	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:C2:149:ALA:O	2:C2:152:TYR:N	2.45	0.49
2:CZ:84:PRO:HD2	2:CZ:186:LEU:HD22	1.94	0.49
1:AG:160:TYR:CE1	1:AG:167:VAL:HG23	2.48	0.49
1:AO:160:TYR:CE1	1:AO:167:VAL:HG23	2.48	0.49
1:A7:160:TYR:CE1	1:A7:167:VAL:HG23	2.48	0.49
1:BH:160:TYR:CE1	1:BH:167:VAL:HG23	2.48	0.49
2:C5:84:PRO:HD2	2:C5:186:LEU:HD22	1.94	0.49
2:CE:84:PRO:HD2	2:CE:186:LEU:HD22	1.95	0.49
2:C3:227:PRO:HB3	3:DZ:132:PRO:HB3	1.94	0.49
2:C8:227:PRO:HB3	3:D4:132:PRO:HB3	1.94	0.49
2:CQ:227:PRO:HB3	3:DR:132:PRO:HB3	1.94	0.49
3:D3:56:ILE:N	3:D3:56:ILE:CD1	2.75	0.49
2:CI:227:PRO:HB3	3:DE:132:PRO:HB3	138.14	0.49
1:AI:43:LEU:CD2	1:AI:43:LEU:N	2.74	0.49
2:C9:223:ASN:ND2	2:C9:223:ASN:N	2.61	0.49
3:DR:97:PHE:CE1	3:DR:216:LEU:HD23	2.47	0.49
2:CB:223:ASN:N	2:CB:223:ASN:ND2	2.60	0.49
2:CW:223:ASN:N	2:CW:223:ASN:ND2	2.60	0.49
3:EE:135:ARG:O	3:EE:138:ALA:N	2.45	0.49
3:DU:135:ARG:O	3:DU: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	110.62	0.49
4:FT:20:SER:HA	4:FX:25:PHE:O	199.44	0.49
3:DJ:121:LEU:O	3:DJ:121:LEU:HD23	2.12	0.49
3:D8:80:LEU:HD12	3:D8:80:LEU:H	1.78	0.49
1:A7:107:PHE:HE1	1:A7:196:LEU:HB2	1.76	0.49
1:A3:107:PHE:HE1	1:A3:196:LEU:HB2	1.76	0.49
1:AE:238:LYS:HA	3:DE:171:SER:O	2.12	0.49
1:AI:238:LYS:HA	3:DK:171:SER:O	271.70	0.49
1:AB:128:VAL:CG1	1:AC:89:LYS:HG2	2.42	0.49
1:AF:89:LYS:HG2	1:AJ:128:VAL:CG1	2.42	0.49
1:BA:238:LYS:HA	3:DP:171:SER:O	134.27	0.49
1:A0:171:TYR:N	1:A0:185:ASN:OD1	2.45	0.49
2:CY:140:LEU:HD22	2:CY:190:ASN:OD1	2.12	0.49
1:AD:27:HIS:O	1:AD:33:LEU:HD21	2.13	0.49
1:AM:171:TYR:N	1:AM:185:ASN:OD1	2.45	0.49
1:BH:128:VAL:CG1	1:BI:89:LYS:HG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:89:LYS:HG2	1:AS:128:VAL:CG1	2.42	0.49
1:A3:150:ARG:HE	1:A3:150:ARG:H	1.59	0.49
1:AR:238:LYS:HA	3:DR:171:SER:O	2.12	0.49
1:A3:89:LYS:HG2	1:A7:128:VAL:CG1	2.42	0.49
1:A8:171:TYR:N	1:A8:185:ASN:OD1	2.45	0.49
2:C6:115:ASN:CA	3:DE:119:LYS:HZ3	2.25	0.49
2:CY:110:VAL:CG1	2:CY:215:VAL:HA	2.43	0.49
2:CB:115:ASN:C	3:DT:119:LYS:HZ3	259.59	0.49
2:CF:110:VAL:CG1	2:CF:215:VAL:HA	2.43	0.49
2:CF:115:ASN:CA	3:D6:119:LYS:HZ3	2.26	0.49
1:AI:19:LEU:HD12	2:CJ:48:SER:HB2	90.17	0.49
1:AL:19:LEU:HD12	2:CK:48:SER:HB2	1.93	0.49
3:DG:101:ARG:HA	3:DG:160:TYR:CE2	2.48	0.49
3:DH:103:SER:HB3	3:DH:159:PRO:CA	2.35	0.49
3:DJ:101:ARG:HA	3:DJ:160:TYR:CE2	2.48	0.49
3:DK:101:ARG:HA	3:DK:160:TYR:CE2	2.48	0.49
3:DP:101:ARG:HA	3:DP:160:TYR:CE2	2.48	0.49
3:DQ:103:SER:HB3	3:DQ:159:PRO:CA	2.35	0.49
1:AU:19:LEU:HD12	2:CU:48:SER:HB2	1.93	0.49
1:AA:101:PHE:CD2	1:AA:143:VAL:HG11	2.44	0.49
1:A8:42:THR:OG1	1:AB:121:LEU:HD23	223.68	0.49
1:AF:40:VAL:HG22	1:AF:211:TYR:HE1	1.77	0.49
1:AE:121:LEU:HD23	1:AF:42:THR:OG1	129.59	0.49
1:AG:121:LEU:HD23	1:AH:42:THR:OG1	2.13	0.49
1:AK:82:LEU:HD23	1:AK:84:LEU:HD11	1.94	0.49
1:AN:121:LEU:HD23	1:AO:42:THR:OG1	2.13	0.49
1:AS:40:VAL:HG22	1:AS:211:TYR:HE1	1.77	0.49
1:BB:121:LEU:HD23	1:BC:42:THR:OG1	2.13	0.49
3:D9:20:ASP:OD2	3:DB:4:ARG:NH1	201.46	0.49
3:DC:20:ASP:OD2	3:DE:4:ARG:NH1	2.45	0.49
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:DV:20:ASP:OD2	3:DY:1:ALA:HB1	2.12	0.49
3:DV:4:ARG:NH1	3:DY:20:ASP:OD2	2.45	0.49
3:EC:3:ILE:HG22	3:EC:4:ARG:N	2.27	0.49
4:FE:30:TYR:CD1	4:FE:30:TYR:N	2.81	0.49
1:A4:82:LEU:HD23	1:A4:84:LEU:HD11	1.94	0.49
1:A0:42:THR:OG1	1:AZ:121:LEU:HD23	2.13	0.49
1:AN:187:LEU:HD12	1:AN:190:ALA:HB2	1.94	0.49
1:A5:187:LEU:HD12	1:A5:190:ALA:HB2	1.94	0.49
2:CV:140:LEU:HD22	2:CV:190:ASN:OD1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:125:CYS:HB2	2:CD:199:LEU:HD11	1.94	0.49
2:CG:125:CYS:HB2	2:CG:199:LEU:HD11	1.94	0.49
2:CB:125:CYS:HB2	2:CB:199:LEU:HD11	1.94	0.49
1:A5:48:LEU:HD23	1:A5:198:THR:OG1	2.12	0.49
2:CX:125:CYS:HB2	2:CX:199:LEU:HD11	1.94	0.49
2:CQ:200:SER:HA	3:DQ:61:TYR:CE2	2.48	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	256.51	0.49
2:CF:149:ALA:O	2:CF:152:TYR:N	2.45	0.49
2:CT:152:TYR:HE1	3:DT:60:PRO:HB3	1.78	0.49
2:CL:152:TYR:HE1	3:DL:60:PRO:HB3	1.78	0.49
2:CR:200:SER:HA	3:DR:61:TYR:CE2	2.48	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:C1:152:TYR:CE1	3:D1:60:PRO:HG3	2.48	0.49
2:CD:152:TYR:CE1	3:DD:60:PRO:HG3	2.48	0.49
1:BE:170:PHE:CD2	1:BE:222:ARG:CZ	2.87	0.49
2:CM:84:PRO:HD2	2:CM:186:LEU:HD22	1.94	0.49
2:CR:84:PRO:HD2	2:CR:186:LEU:HD22	1.95	0.49
1:AC:160:TYR:CE1	1:AC:167:VAL:HG23	2.48	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	60.44	0.49
1:AS:160:TYR:CE1	1:AS:167:VAL:HG23	2.48	0.49
1:BA:79:PHE:CZ	3:DP:31:VAL:HG11	104.06	0.49
2:CY:227:PRO:HB3	3:DU:132:PRO:HB3	1.94	0.49
1:A0:160:TYR:CE1	1:A0:167:VAL:HG23	2.48	0.49
2:C3:195:VAL:C	2:C3:196:ILE:HG13	2.33	0.49
1:A1:79:PHE:CZ	3:D2:31:VAL:HG11	2.47	0.49
1:AR:79:PHE:CZ	3:DR:31:VAL:HG11	2.47	0.49
3:DX:56:ILE:N	3:DX:56:ILE:CD1	2.75	0.49
2:CL:195:VAL:C	2:CL:196:ILE:HG13	2.33	0.49
2:CB:195:VAL:C	2:CB:196:ILE:HG13	2.33	0.49
3:D1:97:PHE:CE1	3:D1:216:LEU:HD23	2.47	0.49
3:DB:97:PHE:CE1	3:DB:216:LEU:HD23	2.47	0.49
2:CR:223:ASN:N	2:CR:223:ASN:ND2	2.60	0.49
3:EA:135:ARG:O	3:EA:138:ALA:N	2.45	0.49
3:D7:135:ARG:O	3:D7:138:ALA:N	2.45	0.49
3:D0:80:LEU:HD12	3:D0:80:LEU:H	1.77	0.49
3:DU:80:LEU:HD12	3:DU:80:LEU:H	1.77	0.49
1:AX:107:PHE:HE1	1:AX:196:LEU:HB2	1.76	0.49
1:AK:237:HIS:O	3:DM:171:SER:HB2	91.64	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:89:LYS:HG2	1:AB:128:VAL:CG1	236.12	0.49
1:AC:89:LYS:HG2	1:AG:128:VAL:CG1	192.08	0.49
1:AM:128:VAL:CG1	1:AN:89:LYS:HG2	2.42	0.49
1:A5:237:HIS:O	3:D6:171:SER:HB2	2.13	0.49
1:AX:238:LYS:HA	3:DY:171:SER:O	2.12	0.49
1:A5:128:VAL:CG1	1:A6:89:LYS:HG2	2.42	0.49
1:AN:27:HIS:O	1:AN:33:LEU:HD21	2.13	0.49
1:A2:128:VAL:CG1	1:AY:89:LYS:HG2	2.42	0.49
3:D6:130:ALA:O	3:D6:131:ALA:HB3	2.13	0.49
3:DP:130:ALA:O	3:DP:131:ALA:HB3	2.13	0.49
1:AW:150:ARG:HE	1:AW:150:ARG:H	1.60	0.49
3:DY:130:ALA:O	3:DY:131:ALA:HB3	2.13	0.49
1:A3:238:LYS:HA	3:D4:171:SER:O	2.12	0.49
3:EB:102:GLY:HA3	3:EB:214:PHE:HA	1.93	0.49
2:CC:115:ASN:CA	3:ED:119:LYS:HZ3	249.33	0.49
2:C0:110:VAL:CG1	2:C0:215:VAL:HA	2.43	0.49
2:CD:48:SER:O	3:DE:159:PRO:HB2	2.12	0.49
3:EB:101:ARG:HA	3:EB:160:TYR:CE2	2.48	0.49
3:DQ:101:ARG:HA	3:DQ:160:TYR:CE2	2.48	0.49
3:D1:101:ARG:HA	3:D1:160:TYR:CE2	2.48	0.49
1:AB:101:PHE:CD2	1:AB:143:VAL:HG11	2.44	0.49
1:AI:121:LEU:HD23	1:AJ:42:THR:OG1	2.13	0.49
1:AT:42:THR:OG1	1:AX:121:LEU:HD23	2.13	0.49
1:BI:40:VAL:HG22	1:BI:211:TYR:HE1	1.77	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:DO:3:ILE:HG22	3:DO:4:ARG:N	2.27	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: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
4:FC:30:TYR:CD1	4:FC:30:TYR:N	2.81	0.49
4:FJ:30:TYR:CD1	4:FJ:30:TYR:N	2.81	0.49
3:DL:19:PRO:HG3	4:FL:17:ASN:ND2	2.26	0.49
4:FN:30:TYR:N	4:FN:30:TYR:CD1	2.81	0.49
4:FO:30:TYR:CD1	4:FO:30:TYR:N	2.81	0.49
1:A0:121:LEU:HD23	1:A1:42:THR:OG1	2.13	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
1:AO:187:LEU:HD12	1:AO:190:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:187:LEU:HD12	1:AX:190:ALA:HB2	1.94	0.49
1:BE:187:LEU:HD12	1:BE:190:ALA:HB2	1.94	0.49
2:CX:140:LEU:HD22	2:CX:190:ASN:OD1	2.12	0.49
2:CN:125:CYS:HB2	2:CN:199:LEU:HD11	1.94	0.49
1:A9:48:LEU:HD23	1:A9:198:THR:OG1	2.12	0.49
2:CS:125:CYS:HB2	2:CS:199:LEU:HD11	1.94	0.49
2:CQ:152:TYR:CE1	3:DQ:60:PRO:HG3	2.48	0.49
2:CI:200:SER:HA	3:DI:61:TYR:CE2	2.48	0.49
2:CH:200:SER:HA	3:DH:61:TYR:CE2	2.48	0.49
2:CV:152:TYR:CE1	3:DV:60:PRO:HG3	2.48	0.49
2:CF:200:SER:HA	3:DF:61:TYR:CE2	2.48	0.49
2:CJ:152:TYR:CE1	3:DJ:60:PRO:HG3	2.48	0.49
2:CT:152:TYR:CE1	3:EA:60:PRO:HG3	197.29	0.49
2:CT:200:SER:HA	3:EA:61:TYR:CE2	206.58	0.49
2:CL:153:GLN:HA	3:DL:53:PHE:HB2	1.94	0.49
2:CX:152:TYR:HE1	3:DX:60:PRO:HB3	1.77	0.49
2:C3:152:TYR:CE1	3:D3:60:PRO:HG3	2.48	0.49
2:CR:152:TYR:CE1	3:DR:60:PRO:HG3	2.48	0.49
2:C9:200:SER:HA	3:D9:61:TYR:CE2	2.48	0.49
2:CK:200:SER:HA	3:DK:61:TYR:CE2	2.48	0.49
2:C5:152:TYR:CE1	3:D5:60:PRO:HG3	2.48	0.49
1:AB:170:PHE:CD2	1:AB:222:ARG:CZ	2.87	0.49
1:AF:30:VAL:HG13	1:AF:218:MET:HE2	1.94	0.49
2:CB:152:TYR:HE1	3:DB:60:PRO:HB3	1.78	0.49
2:C7:149:ALA:O	2:C7:152:TYR:N	2.45	0.49
2:C2:152:TYR:CE1	3:D2:60:PRO:HG3	2.48	0.49
2:C0:200:SER:HA	3:D0:61:TYR:CE2	2.48	0.49
1:A0:170:PHE:CD2	1:A0:222:ARG:CZ	2.87	0.49
2:CF:84:PRO:HD2	2:CF:186:LEU:HD22	1.95	0.49
2:CK:84:PRO:HD2	2:CK:186:LEU:HD22	1.95	0.49
1:AA:79:PHE:CZ	3:DA:31:VAL:HG11	2.47	0.49
1:AJ:160:TYR:CE1	1:AJ:167:VAL:HG23	2.48	0.49
1:AN:160:TYR:CE1	1:AN:167:VAL:HG23	2.48	0.49
2:C4:195:VAL:C	2:C4:196:ILE:HG13	2.33	0.49
2:C5:195:VAL:C	2:C5:196:ILE:HG13	2.33	0.49
3:D8:56:ILE:CD1	3:D8:56:ILE:N	2.75	0.49
3:D2:56:ILE:CD1	3:D2:56:ILE:N	2.75	0.49
2:C9:140:LEU:HD22	2:C9:190:ASN:OD1	2.12	0.49
2:C3:84:PRO:HD2	2:C3:186:LEU:HD22	1.95	0.49
2:C9:195:VAL:C	2:C9:196:ILE:HG13	2.33	0.49
2:CW:195:VAL:C	2:CW:196:ILE:HG13	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:134:HIS:HB3	2:CR:135:THR:H	1.46	0.49
2:CD:195:VAL:C	2:CD:196:ILE:HG13	2.33	0.49
2:CI:195:VAL:C	2:CI:196:ILE:HG13	2.33	0.49
1:AS:239:PHE:CD1	3:DT:170:TYR:CD2	2.96	0.49
2:CJ:223:ASN:ND2	2:CJ:223:ASN:N	2.61	0.49
1:A8:43:LEU:N	1:A8:43:LEU:CD2	2.74	0.49
2:CA:223:ASN:ND2	2:CA:223:ASN:N	2.60	0.49
3:DQ:121:LEU:HD23	3:DQ:121:LEU:O	2.12	0.49
3:DH:80:LEU:H	3:DH:80:LEU:HD12	1.77	0.49
3:D5:80:LEU:HD12	3:D5:80:LEU:H	1.77	0.49
1:AO:238:LYS:HA	3:DS:171:SER:O	163.43	0.49
1:AZ:237:HIS:O	3:D0:171:SER:HB2	2.13	0.49
1:AE:128:VAL:CG1	1:AF:89:LYS:HG2	130.03	0.49
1:BH:237:HIS:O	3:ED:171:SER:HB2	2.13	0.49
3:DB:130:ALA:O	3:DB:131:ALA:HB3	2.13	0.49
3:DK:130:ALA:O	3:DK:131:ALA:HB3	2.13	0.49
1:AQ:128:VAL:CG1	1:AR:89:LYS:HG2	2.42	0.49
3:D3:130:ALA:O	3:D3:131:ALA:HB3	2.13	0.49
1:AF:171:TYR:N	1:AF:185:ASN:OD1	2.45	0.49
1:A4:27:HIS:O	1:A4:33:LEU:HD21	2.13	0.49
1:AF:27:HIS:O	1:AF:33:LEU:HD21	2.13	0.49
1:A0:128:VAL:CG1	1:A1:89:LYS:HG2	2.42	0.49
1:AK:150:ARG:H	1:AK:150:ARG:HE	1.60	0.49
1:AY:150:ARG:HE	1:AY:150:ARG:H	1.60	0.49
1:A8:27:HIS:O	1:A8:33:LEU:HD21	2.13	0.49
3:DA:130:ALA:O	3:DA:131:ALA:HB3	2.13	0.49
2:CM:110:VAL:CG1	2:CM:215:VAL:HA	2.43	0.49
2:CO:110:VAL:CG1	2:CO:215:VAL:HA	2.43	0.49
2:CZ:110:VAL:CG1	2:CZ:215:VAL:HA	2.43	0.49
2:C9:110:VAL:CG1	2:C9:215:VAL:HA	2.43	0.49
2:CB:110:VAL:CG1	2:CB:215:VAL:HA	2.43	0.49
3:DN:101:ARG:HA	3:DN:160:TYR:CE2	2.48	0.49
3:DO:103:SER:HB3	3:DO:159:PRO:CA	2.35	0.49
2:C6:46:THR:CG2	3:D7:165:ASP:HA	2.38	0.49
3:D0:101:ARG:HA	3:D0:160:TYR:CE2	2.48	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:AQ:101:PHE:CD2	1:AQ:143:VAL:HG11	2.44	0.49
1:AO:121:LEU:HD23	1:AS:42:THR:OG1	117.06	0.49
1:AW:40:VAL:HG22	1:AW:211:TYR:HE1	1.77	0.49
3:DE:4:ARG:NH1	3:DH:20:ASP:OD2	149.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:20:ASP:OD2	3:DW:4:ARG:NH1	2.45	0.49
4:F9:30:TYR:CD1	4:F9:30:TYR:N	2.81	0.49
4:FB:30:TYR:N	4:FB:30:TYR:CD1	2.81	0.49
4:FR:30:TYR:N	4:FR:30:TYR:CD1	2.81	0.49
1:BD:187:LEU:HD12	1:BD:190:ALA:HB2	1.94	0.49
1:AQ:187:LEU:HD12	1:AQ:190:ALA:HB2	1.94	0.49
3:D6:1:ALA:HB1	3:D8:20:ASP:OD2	2.12	0.49
1:BG:48:LEU:HD23	1:BG:198:THR:OG1	2.12	0.49
2:CM:200:SER:HA	3:DM:61:TYR:CE2	2.48	0.49
2:CY:149:ALA:O	2:CY:152:TYR:N	2.45	0.49
2:CI:152:TYR:HE1	3:DI:60:PRO:HB3	1.78	0.49
2:CI:152:TYR:CE1	3:DI:60:PRO:HG3	2.48	0.49
2:C8:125:CYS:HB2	2:C8:199:LEU:HD11	1.94	0.49
2:CT:152:TYR:HE1	3:EA:60:PRO:HB3	194.89	0.49
2:CC:167:THR:O	2:CC:168:ASN:HB3	2.13	0.49
2:CA:152:TYR:CE1	3:DA:60:PRO:HG3	2.48	0.49
2:CZ:152:TYR:HE1	3:DZ:60:PRO:HB3	1.78	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
3:DS:53:PHE:HB3	3:DS:60:PRO:HB2	1.95	0.49
2:C1:152:TYR:HE1	3:D1:60:PRO:HB3	1.78	0.49
2:C7:200:SER:HA	3:D7:61:TYR:CE2	2.48	0.49
2:CE:167:THR:O	2:CE:168:ASN:HB3	2.13	0.49
1:BH:170:PHE:CD2	1:BH:222:ARG:CZ	2.87	0.49
2:CG:84:PRO:HD2	2:CG:186:LEU:HD22	1.94	0.49
2:CI:84:PRO:HD2	2:CI:186:LEU:HD22	1.95	0.49
1:A9:160:TYR:CE1	1:A9:167:VAL:HG23	2.48	0.49
1:AM:79:PHE:CZ	3:DM:31:VAL:HG11	2.47	0.49
1:AL:79:PHE:CZ	3:DN:31:VAL:HG11	60.44	0.49
1:AF:79:PHE:CZ	3:DF:31:VAL:HG11	2.47	0.49
1:BA:160:TYR:CE1	1:BA:167:VAL:HG23	2.48	0.49
2:CG:195:VAL:C	2:CG:196:ILE:HG13	2.33	0.49
1:AU:160:TYR:CE1	1:AU:167:VAL:HG23	2.48	0.49
2:CP:195:VAL:C	2:CP:196:ILE:HG13	2.33	0.49
3:DF:56:ILE:CD1	3:DF:206:VAL:HG11	2.43	0.49
2:CR:195:VAL:C	2:CR:196:ILE:HG13	2.33	0.49
3:D2:56:ILE:CD1	3:D2:206:VAL:HG11	2.43	0.49
3:D3:56:ILE:CD1	3:D3:206:VAL:HG11	2.43	0.49
1:A8:160:TYR:CE1	1:A8:167:VAL:HG23	2.48	0.49
1:BC:160:TYR:CE1	1:BC:167:VAL:HG23	2.48	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)
2:CQ:195:VAL:C	2:CQ:196:ILE:HG13	2.33	0.49
3:DS:56:ILE:CD1	3:DS:206:VAL:HG11	2.43	0.49
2:C6:223:ASN:N	2:C6:223:ASN:ND2	2.60	0.49
2:C5:223:ASN:N	2:C5:223:ASN:ND2	2.60	0.49
3:DT:97:PHE:CE1	3:DT:216:LEU:HD23	2.47	0.49
4:F3:25:PHE:O	4:FZ:20:SER:HA	2.12	0.49
3:D9:121:LEU:HD23	3:D9:121:LEU:O	2.12	0.49
3:DH:121:LEU:O	3:DH:121:LEU:HD23	2.12	0.49
3:D0:121:LEU:HD23	3:D0:121:LEU:O	2.12	0.49
3:DX:121:LEU:O	3:DX:121:LEU:HD23	2.12	0.49
4:F5:25:PHE:O	4:F6:20:SER:HA	2.12	0.49
3:DP:80:LEU:H	3:DP:80:LEU:HD12	1.77	0.49
3:EB:80:LEU:HD12	3:EB:80:LEU:H	1.77	0.49
1:AB:237:HIS:O	3:DD:171:SER:HB2	91.64	0.49
1:AJ:238:LYS:HA	3:DJ:171:SER:O	2.12	0.49
1:AH:237:HIS:O	3:DH:171:SER:HB2	2.13	0.49
1:BB:237:HIS:O	3:DQ:171:SER:HB2	115.39	0.49
1:A9:237:HIS:O	3:DA:171:SER:HB2	242.10	0.49
1:AG:237:HIS:O	3:DG:171:SER:HB2	2.13	0.49
1:AM:238:LYS:HA	3:DM:171:SER:O	2.12	0.49
1:AA:89:LYS:HG2	1:AE:128:VAL:CG1	2.42	0.49
1:BI:237:HIS:O	3:EE:171:SER:HB2	2.13	0.49
1:A8:237:HIS:O	3:D9:171:SER:HB2	2.13	0.49
1:AY:237:HIS:O	3:DZ:171:SER:HB2	2.13	0.49
3:DJ:130:ALA:O	3:DJ:131:ALA:HB3	2.13	0.49
1:AZ:27:HIS:O	1:AZ:33:LEU:HD21	2.13	0.49
3:DM:130:ALA:O	3:DM:131:ALA:HB3	2.13	0.49
1:AO:27:HIS:O	1:AO:33:LEU:HD21	2.13	0.49
1:AX:27:HIS:O	1:AX:33:LEU:HD21	2.13	0.49
1:BE:27:HIS:O	1:BE:33:LEU:HD21	2.13	0.49
3:DF:130:ALA:O	3:DF:131:ALA:HB3	2.13	0.49
1:BI:150:ARG:H	1:BI:150:ARG:HE	1.60	0.49
1:A4:150:ARG:H	1:A4:150:ARG:HE	1.59	0.49
1:BG:150:ARG:HE	1:BG:150:ARG:H	1.60	0.49
3:DH:130:ALA:O	3:DH:131:ALA:HB3	2.13	0.49
1:AS:27:HIS:O	1:AS:33:LEU:HD21	2.13	0.49
1:AT:89:LYS:HG2	1:AX:128:VAL:CG1	2.42	0.49
2:CL:110:VAL:CG1	2:CL:215:VAL:HA	2.43	0.48
2:C2:115:ASN:CA	3:DH:119:LYS:HZ2	256.71	0.48
2:CX:115:ASN:CA	3:DO:119:LYS:HZ2	215.73	0.48
2:CN:115:ASN:CA	3:DE:119:LYS:HZ3	258.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DE:101:ARG:HA	3:DE:160:TYR:CE2	2.48	0.48
3:DG:103:SER:HB2	3:DG:159:PRO:HA	1.95	0.48
3:DS:103:SER:HB2	3:DS:159:PRO:HA	1.95	0.48
3:D3:101:ARG:HA	3:D3:160:TYR:CE2	2.48	0.48
3:DV:101:ARG:HA	3:DV:160:TYR:CE2	2.48	0.48
3:DU:103:SER:HB3	3:DU:159:PRO:CA	2.35	0.48
1:A8:40:VAL:HG22	1:A8:211:TYR:HE1	1.77	0.48
1:A9:101:PHE:CD2	1:A9:143:VAL:HG11	2.44	0.48
1:AF:121:LEU:HD23	1:AG:42:THR:OG1	2.13	0.48
1:AG:101:PHE:CD2	1:AG:143:VAL:HG11	2.43	0.48
1:AO:105:LYS:HE3	1:AO:139:SER:OG	2.13	0.48
1:AT:121:LEU:HD23	1:AU:42:THR:OG1	2.13	0.48
1:BD:105:LYS:HE3	1:BD:139:SER:OG	2.13	0.48
3:EC:20:ASP:OD2	3:EE:4:ARG:NH1	2.45	0.48
4:FH:30:TYR:N	4:FH:30:TYR:CD1	2.81	0.48
4:FI:30:TYR:CD1	4:FI:30:TYR:N	2.81	0.48
4:FL:30:TYR:N	4:FL:30:TYR:CD1	2.81	0.48
4:FQ:30:TYR:N	4:FQ:30:TYR:CD1	2.81	0.48
1:AU:105:LYS:HE3	1:AU:139:SER:OG	2.13	0.48
1:A3:105:LYS:HE3	1:A3:139:SER:OG	2.13	0.48
3:D4:4:ARG:NH1	3:D7:20:ASP:OD2	2.45	0.48
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
3:D0:1:ALA:HB1	3:D2:20:ASP:OD2	2.12	0.48
1:A2:157:SER:CB	3:D3:24:PRO:HA	2.36	0.48
4:F3:30:TYR:CD1	4:F3:30:TYR:N	2.81	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:AU:187:LEU:HD12	1:AU:190:ALA:HB2	1.94	0.48
1:A3:48:LEU:HD23	1:A3:198:THR:OG1	2.12	0.48
2:CW:125:CYS:HB2	2:CW:199:LEU:HD11	1.94	0.48
2:CI:125:CYS:HB2	2:CI:199:LEU:HD11	1.94	0.48
2:CQ:152:TYR:HE1	3:DQ:60:PRO:HB3	1.78	0.48
2:CY:152:TYR:CE1	3:DY:60:PRO:HG3	2.48	0.48
2:CU:152:TYR:CE1	3:DU:60:PRO:HG3	2.48	0.48
2:CU:152:TYR:CE1	3:EB:60:PRO:HG3	250.75	0.48
2:CJ:200:SER:HA	3:DJ:61:TYR:CE2	2.48	0.48
2:CT:152:TYR:CE1	3:DT:60:PRO:HG3	2.48	0.48
2:CX:200:SER:HA	3:DX:61:TYR:CE2	2.48	0.48
2:CX:152:TYR:CE1	3:EE:60:PRO:HG3	184.58	0.48
2:CG:200:SER:HA	3:DG:61:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:167:THR:O	2:CH:168:ASN:HB3	2.14	0.48
2:CE:200:SER:HA	3:DE:61:TYR:CE2	2.48	0.48
2:CW:152:TYR:CE1	3:DW:60:PRO:HG3	2.48	0.48
2:C4:200:SER:HA	3:D4:61:TYR:CE2	2.48	0.48
2:CS:200:SER:HA	3:DS:61:TYR:CE2	2.48	0.48
2:CG:167:THR:O	2:CG:168:ASN:HB3	2.13	0.48
2:CC:200:SER:HA	3:DC:61:TYR:CE2	2.48	0.48
2:C7:152:TYR:HE1	3:D7:60:PRO:HB3	1.78	0.48
2:CD:200:SER:HA	3:DD:61:TYR:CE2	2.48	0.48
2:CR:167:THR:O	2:CR:168:ASN:HB3	2.13	0.48
2:C6:200:SER:HA	3:D6:61:TYR:CE2	2.48	0.48
2:CU:84:PRO:HD2	2:CU:186:LEU:HD22	1.94	0.48
2:CI:83:LEU:HA	2:CI:84:PRO:HA	1.59	0.48
1:AI:79:PHE:CZ	3:DK:31:VAL:HG11	240.05	0.48
1:AM:160:TYR:CE1	1:AM:167:VAL:HG23	2.48	0.48
1:AH:160:TYR:CE1	1:AH:167:VAL:HG23	2.48	0.48
1:AJ:79:PHE:CZ	3:DL:31:VAL:HG11	232.88	0.48
1:AL:79:PHE:CZ	3:DL:31:VAL:HG11	2.47	0.48
2:CX:180:PRO:HD2	2:CX:189:HIS:HE1	1.76	0.48
1:BG:79:PHE:CZ	3:EC:31:VAL:HG11	2.47	0.48
1:A5:160:TYR:CE1	1:A5:167:VAL:HG23	2.48	0.48
2:CF:195:VAL:C	2:CF:196:ILE:HG13	2.33	0.48
3:DK:56:ILE:CD1	3:DK:206:VAL:HG11	2.43	0.48
3:DP:56:ILE:CD1	3:DP:206:VAL:HG11	2.43	0.48
2:CV:195:VAL:C	2:CV:196:ILE:HG13	2.33	0.48
3:EC:56:ILE:N	3:EC:56:ILE:CD1	2.75	0.48
3:D5:56:ILE:CD1	3:D5:206:VAL:HG11	2.43	0.48
2:C2:195:VAL:C	2:C2:196:ILE:HG13	2.33	0.48
2:CH:195:VAL:C	2:CH:196:ILE:HG13	2.33	0.48
2:CC:195:VAL:C	2:CC:196:ILE:HG13	2.33	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:DQ:56:ILE:CD1	3:DQ:206:VAL:HG11	2.43	0.48
3:DI:56:ILE:CD1	3:DI:206:VAL:HG11	2.43	0.48
1:BE:105:LYS:HE3	1:BE:139:SER:OG	2.13	0.48
1:BI:105:LYS:HE3	1:BI:139:SER:OG	2.13	0.48
1:A8:105:LYS:HE3	1:A8:139:SER:OG	2.13	0.48
1:BH:43:LEU:CD2	1:BH:43:LEU:N	2.74	0.48
3:DX:97:PHE:CE1	3:DX:216:LEU:HD23	2.47	0.48
2:CK:223:ASN:ND2	2:CK:223:ASN:N	2.60	0.48
4:FK:20:SER:HA	4:FO:25:PHE:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:121:LEU:HD23	3:DT:121:LEU:O	2.12	0.48
3:DW:80:LEU:HD12	3:DW:80:LEU:H	1.77	0.48
3:DQ:80:LEU:HD12	3:DQ:80:LEU:H	1.77	0.48
1:AD:237:HIS:O	3:DF:171:SER:HB2	131.58	0.48
1:AL:237:HIS:O	3:DN:171:SER:HB2	91.64	0.48
1:AQ:237:HIS:O	3:DQ:171:SER:HB2	2.13	0.48
1:A9:238:LYS:HA	3:DA:171:SER:O	242.00	0.48
1:AA:237:HIS:O	3:DA:171:SER:HB2	2.13	0.48
1:AO:237:HIS:O	3:DO:171:SER:HB2	2.13	0.48
1:AK:237:HIS:O	3:DK:171:SER:HB2	2.13	0.48
1:BE:237:HIS:O	3:EA:171:SER:HB2	2.13	0.48
1:AQ:27:HIS:O	1:AQ:33:LEU:HD21	2.13	0.48
1:AM:27:HIS:O	1:AM:33:LEU:HD21	2.13	0.48
1:AV:27:HIS:O	1:AV:33:LEU:HD21	2.13	0.48
1:A6:238:LYS:HA	3:D7:171:SER:O	2.12	0.48
3:DE:130:ALA:O	3:DE:131:ALA:HB3	2.13	0.48
1:BG:27:HIS:O	1:BG:33:LEU:HD21	2.13	0.48
3:DO:130:ALA:O	3:DO:131:ALA:HB3	2.13	0.48
1:BE:171:TYR:N	1:BE:185:ASN:OD1	2.45	0.48
3:D5:130:ALA:O	3:D5:131:ALA:HB3	2.13	0.48
1:AJ:27:HIS:O	1:AJ:33:LEU:HD21	2.13	0.48
1:AS:238:LYS:HA	3:DT:171:SER:O	2.12	0.48
2:CM:115:ASN:CA	3:DI:119:LYS:HZ3	258.46	0.48
2:CD:115:ASN:HD22	3:D7:190:ALA:C	2.17	0.48
2:CG:110:VAL:CG1	2:CG:215:VAL:HA	2.43	0.48
2:CF:115:ASN:CA	3:DV:119:LYS:HZ3	179.95	0.48
1:AM:19:LEU:HD12	2:CL:48:SER:HB2	1.93	0.48
3:DA:101:ARG:HA	3:DA:160:TYR:CE2	2.48	0.48
3:DX:103:SER:HB2	3:DX:159:PRO:HA	1.95	0.48
1:AR:19:LEU:HD12	2:CQ:48:SER:HB2	1.93	0.48
3:D8:101:ARG:HA	3:D8:160:TYR:CE2	2.48	0.48
1:AB:105:LYS:HE3	1:AB:139:SER:OG	2.14	0.48
1:AK:101:PHE:CD2	1:AK:143:VAL:HG11	2.44	0.48
1:AQ:121:LEU:HD23	1:AR:42:THR:OG1	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:BA:105:LYS:HE3	1:BA:139:SER:OG	2.13	0.48
1:BC:121:LEU:HD23	1:BD:42:THR:OG1	2.13	0.48
1:BD:101:PHE:CD2	1:BD:143:VAL:HG11	2.44	0.48
1:BG:40:VAL:HG22	1:BG:211:TYR:HE1	1.77	0.48
3:DA:4:ARG:NH1	3:DD:20:ASP:OD2	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DQ:4:ARG:NH1	3:DT:20:ASP:OD2	2.45	0.48
4:FA:30:TYR:N	4:FA:30:TYR:CD1	2.81	0.48
4:FS:30:TYR:CD1	4:FS:30:TYR:N	2.81	0.48
4:FX:30:TYR:N	4:FX:30:TYR:CD1	2.81	0.48
1:A3:42:THR:OG1	1:A7:121:LEU:HD23	2.13	0.48
4:F4:30:TYR:CD1	4:F4:30:TYR:N	2.81	0.48
1:BG:105:LYS:HE3	1:BG:139:SER:OG	2.13	0.48
1:A4:105:LYS:HE3	1:A4:139:SER:OG	2.13	0.48
1:A5:40:VAL:HG22	1:A5:211:TYR:HE1	1.77	0.48
1:A1:101:PHE:CD2	1:A1:143:VAL:HG11	2.44	0.48
3:D0:20:ASP:OD2	3:D2:4:ARG:NH1	2.45	0.48
4:FZ:30:TYR:N	4:FZ:30:TYR:CD1	2.81	0.48
1:A8:187:LEU:HD12	1:A8:190:ALA:HB2	1.94	0.48
1:A5:121:LEU:HD23	1:A6:42:THR:OG1	2.13	0.48
1:BC:187:LEU:HD12	1:BC:190:ALA:HB2	1.94	0.48
2:C4:135:THR:HB	2:C4:139:ALA:CA	2.41	0.48
1:A1:48:LEU:HD23	1:A1:198:THR:OG1	2.12	0.48
2:C7:125:CYS:HB2	2:C7:199:LEU:HD11	1.94	0.48
2:CP:226:LEU:CD2	3:DQ:126:PRO:HG2	2.36	0.48
2:CP:200:SER:HA	3:DP:61:TYR:CE2	2.48	0.48
2:CM:152:TYR:CE1	3:DM:60:PRO:HG3	2.48	0.48
2:CV:152:TYR:HE1	3:EC:60:PRO:HB3	261.30	0.48
2:CU:200:SER:HA	3:DU:61:TYR:CE2	2.48	0.48
2:C3:149:ALA:O	2:C3:152:TYR:N	2.45	0.48
2:CA:152:TYR:HE1	3:DA:60:PRO:HB3	1.78	0.48
2:CS:152:TYR:CE1	3:DS:60:PRO:HG3	2.48	0.48
2:CO:152:TYR:HE1	3:DO:60:PRO:HB3	1.78	0.48
2:CO:200:SER:HA	3:DO:61:TYR:CE2	2.48	0.48
1:BC:170:PHE:CD2	1:BC:222:ARG:CZ	2.87	0.48
2:CS:167:THR:O	2:CS:168:ASN:HB3	2.14	0.48
2:C7:167:THR:O	2:C7:168:ASN:HB3	2.13	0.48
2:C0:152:TYR:CE1	3:D0:60:PRO:HG3	2.48	0.48
2:CJ:84:PRO:HD3	2:CJ:108:TRP:CZ2	2.48	0.48
1:AA:160:TYR:CE1	1:AA:167:VAL:HG23	2.48	0.48
1:AI:160:TYR:CE1	1:AI:167:VAL:HG23	2.48	0.48
1:BD:160:TYR:CE1	1:BD:167:VAL:HG23	2.48	0.48
1:AO:79:PHE:CZ	3:DO:31:VAL:HG11	2.47	0.48
1:AF:79:PHE:CZ	3:DH:31:VAL:HG11	60.44	0.48
1:AL:160:TYR:CE1	1:AL:167:VAL:HG23	2.48	0.48
1:AT:79:PHE:CZ	3:DU:31:VAL:HG11	2.47	0.48
1:A4:160:TYR:CE1	1:A4:167:VAL:HG23	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:160:TYR:CE1	1:BG:167:VAL:HG23	2.48	0.48
2:CA:195:VAL:C	2:CA:196:ILE:HG13	2.33	0.48
2:CU:195:VAL:C	2:CU:196:ILE:HG13	2.33	0.48
3:DA:56:ILE:CD1	3:DA:206:VAL:HG11	2.43	0.48
3:DU:75:GLN:HA	3:DU:183:LEU:O	2.14	0.48
2:CU:227:PRO:HB3	3:EC:132:PRO:HB3	264.42	0.48
3:DH:56:ILE:CD1	3:DH:206:VAL:HG11	2.43	0.48
3:D6:56:ILE:CD1	3:D6:56:ILE:N	2.75	0.48
1:A1:160:TYR:CE1	1:A1:167:VAL:HG23	2.48	0.48
3:D0:75:GLN:HA	3:D0:183:LEU:O	2.14	0.48
2:CE:195:VAL:C	2:CE:196:ILE:HG13	2.33	0.48
2:CI:227:PRO:HB3	3:DJ:132:PRO:HB3	1.94	0.48
2:CS:227:PRO:HB3	3:DO:132:PRO:HB3	138.13	0.48
3:EA:56:ILE:CD1	3:EA:206:VAL:HG11	2.43	0.48
3:DM:56:ILE:CD1	3:DM:206:VAL:HG11	2.43	0.48
3:DD:75:GLN:HA	3:DD:183:LEU:O	2.14	0.48
1:A2:160:TYR:CE1	1:A2:167:VAL:HG23	2.48	0.48
3:DB:56:ILE:CD1	3:DB:206:VAL:HG11	2.43	0.48
1:AT:105:LYS:HE3	1:AT:139:SER:OG	2.13	0.48
2:CD:223:ASN:N	2:CD:223:ASN:ND2	2.61	0.48
2:CN:223:ASN:ND2	2:CN:223:ASN:N	2.60	0.48
3:D8:97:PHE:CE1	3:D8:216:LEU:HD23	2.47	0.48
3:D7:97:PHE:CE1	3:D7:216:LEU:HD23	2.47	0.48
2:CG:223:ASN:ND2	2:CG:223:ASN:N	2.60	0.48
3:DY:97:PHE:CE1	3:DY:216:LEU:HD23	2.47	0.48
2:CU:223:ASN:N	2:CU:223:ASN:ND2	2.60	0.48
3:EB:97:PHE:CE1	3:EB:216:LEU:HD23	2.47	0.48
2:C3:223:ASN:ND2	2:C3:223:ASN:N	2.61	0.48
2:C8:223:ASN:N	2:C8:223:ASN:ND2	2.60	0.48
2:C0:32:THR:HG23	2:C0:172:HIS:ND1	2.29	0.48
2:CH:32:THR:HG23	2:CH:172:HIS:ND1	2.29	0.48
3:DF:80:LEU:HD12	3:DF:80:LEU:H	1.77	0.48
3:DL:80:LEU:H	3:DL:80:LEU:HD12	1.77	0.48
3:DD:80:LEU:HD12	3:DD:80:LEU:H	1.77	0.48
1:AB:238:LYS:HA	3:DB:171:SER:O	2.12	0.48
1:AL:238:LYS:HA	3:DN:171:SER:O	88.34	0.48
1:AN:237:HIS:O	3:DN:171:SER:HB2	2.13	0.48
1:BB:237:HIS:HB2	3:DQ:81:SER:O	115.03	0.48
1:AA:237:HIS:O	3:DC:171:SER:HB2	91.64	0.48
1:AG:237:HIS:HB2	3:DG:81:SER:O	2.14	0.48
1:AI:237:HIS:O	3:DI:171:SER:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:238:LYS:HA	3:DK:171:SER:O	2.12	0.48
1:AE:237:HIS:O	3:DE:171:SER:HB2	2.13	0.48
1:AC:237:HIS:HB2	3:DE:81:SER:O	94.68	0.48
1:A4:237:HIS:O	3:D5:171:SER:HB2	2.13	0.48
1:AT:237:HIS:O	3:DU:171:SER:HB2	2.13	0.48
1:AR:237:HIS:O	3:DR:171:SER:HB2	2.13	0.48
1:A6:237:HIS:O	3:D7:171:SER:HB2	2.13	0.48
3:DS:130:ALA:O	3:DS:131:ALA:HB3	2.13	0.48
2:C8:167:THR:O	2:C8:168:ASN:HB3	2.14	0.48
1:AT:27:HIS:O	1:AT:33:LEU:HD21	2.13	0.48
1:AF:4:VAL:HG22	3:DF:151:ASN:O	2.14	0.48
1:BG:237:HIS:O	3:EC:171:SER:HB2	2.13	0.48
1:AW:27:HIS:O	1:AW:33:LEU:HD21	2.13	0.48
3:DW:130:ALA:O	3:DW:131:ALA:HB3	2.13	0.48
3:ED:130:ALA:O	3:ED:131:ALA:HB3	2.13	0.48
1:AG:27:HIS:O	1:AG:33:LEU:HD21	2.13	0.48
1:A1:150:ARG:H	1:A1:150:ARG:HE	1.60	0.48
1:AV:150:ARG:HE	1:AV:150:ARG:H	1.60	0.48
1:AR:27:HIS:O	1:AR:33:LEU:HD21	2.13	0.48
1:AY:4:VAL:HG22	3:DZ:151:ASN:O	2.14	0.48
1:AA:27:HIS:O	1:AA:33:LEU:HD21	2.13	0.48
1:BF:4:VAL:HG22	3:EB:151:ASN:O	2.14	0.48
1:AH:27:HIS:O	1:AH:33:LEU:HD21	2.13	0.48
2:CH:115:ASN:CA	3:DN:119:LYS:HZ3	258.51	0.48
2:CM:115:ASN:HD22	3:DI:190:ALA:C	264.44	0.48
2:CO:115:ASN:HD22	3:DP:190:ALA:C	2.17	0.48
2:CS:110:VAL:CG1	2:CS:215:VAL:HA	2.43	0.48
3:DJ:103:SER:HB2	3:DJ:159:PRO:HA	1.95	0.48
3:DO:101:ARG:HA	3:DO:160:TYR:CE2	2.48	0.48
3:DT:101:ARG:HA	3:DT:160:TYR:CE2	2.48	0.48
3:D4:101:ARG:HA	3:D4:160:TYR:CE2	2.48	0.48
1:A8:121:LEU:HD23	1:A9:42:THR:OG1	2.13	0.48
1:AF:105:LYS:HE3	1:AF:139:SER:OG	2.13	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:105:LYS:HE3	1:AK:139:SER:OG	2.13	0.48
1:AK:139:SER:HA	1:AK:140:PRO:HD3	1.62	0.48
1:AM:121:LEU:HD23	1:BA:42:THR:OG1	223.68	0.48
1:AM:87:GLN:O	1:AM:88:PHE:CB	2.62	0.48
1:AQ:40:VAL:HG22	1:AQ:211:TYR:HE1	1.77	0.48
1:BD:37:PHE:CD1	1:BD:212:ARG:HB2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:105:LYS:HE3	1:BH:139:SER:OG	2.14	0.48
1:BD:157:SER:CB	3:DS:24:PRO:HA	139.02	0.48
3:DW:3:ILE:HG22	3:DW:4:ARG:N	2.27	0.48
3:EC:19:PRO:HG3	4:FV:17:ASN:ND2	222.36	0.48
3:DF:19:PRO:HG3	4:FF:17:ASN:ND2	2.26	0.48
4:FF:30:TYR:CD1	4:FF:30:TYR:N	2.81	0.48
4:FG:30:TYR:CD1	4:FG:30:TYR:N	2.81	0.48
3:D5:19:PRO:HG3	4:F5:17:ASN:ND2	2.26	0.48
3:DZ:42:ASN:HD22	3:DZ:44:ILE:HG22	1.65	0.48
1:AU:101:PHE:CD2	1:AU:143:VAL:HG11	2.44	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: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:AZ:82:LEU:HD23	1:AZ:84:LEU:HD11	1.94	0.48
1:AC:187:LEU:HD12	1:AC:190:ALA:HB2	1.94	0.48
2:C8:134:HIS:HB3	2:C8:135:THR:H	1.46	0.48
2:CT:226:LEU:CD2	3:DP:126:PRO:HG2	2.36	0.48
3:DQ:53:PHE:HB3	3:DQ:60:PRO:HB2	1.96	0.48
2:CV:152:TYR:HE1	3:DV:60:PRO:HB3	1.78	0.48
3:DL:53:PHE:HB3	3:DL:60:PRO:HB2	1.96	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:CX:153:GLN:HA	3:DX:53:PHE:HB2	1.94	0.48
2:CX:200:SER:HA	3:EE:61:TYR:CE2	182.20	0.48
2:CG:152:TYR:HE1	3:DG:60:PRO:HB3	1.78	0.48
2:C3:200:SER:HA	3:D3:61:TYR:CE2	2.48	0.48
2:CE:152:TYR:CE1	3:DE:60:PRO:HG3	2.48	0.48
2:CE:152:TYR:HE1	3:DE:60:PRO:HB3	1.77	0.48
3:DB:53:PHE:HB3	3:DB:60:PRO:HB2	1.96	0.48
2:CQ:167:THR:O	2:CQ:168:ASN:HB3	2.14	0.48
3:D1:53:PHE:HB3	3:D1:60:PRO:HB2	1.96	0.48
3:D7:53:PHE:HB3	3:D7:60:PRO:HB2	1.96	0.48
2:CB:167:THR:O	2:CB:168:ASN:HB3	2.13	0.48
2:C0:167:THR:O	2:C0:168:ASN:HB3	2.13	0.48
1:A7:30:VAL:HG13	1:A7:218:MET:HE2	1.94	0.48
2:C2:200:SER:HA	3:D2:61:TYR:CE2	2.48	0.48
3:D0:53:PHE:HB3	3:D0:60:PRO:HB2	1.96	0.48
2:CM:84:PRO:HD3	2:CM:108:TRP:CZ2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:84:PRO:HD3	2:CG:108:TRP:CZ2	2.49	0.48
1:AY:160:TYR:CE1	1:AY:167:VAL:HG23	2.48	0.48
3:DG:56:ILE:CD1	3:DG:206:VAL:HG11	2.43	0.48
2:CE:227:PRO:HB3	3:DA:132:PRO:HB3	1.94	0.48
3:DU:56:ILE:CD1	3:DU:206:VAL:HG11	2.43	0.48
3:DR:56:ILE:CD1	3:DR:206:VAL:HG11	2.43	0.48
1:A8:79:PHE:CZ	3:D9:31:VAL:HG11	2.47	0.48
1:AZ:160:TYR:CE1	1:AZ:167:VAL:HG23	2.48	0.48
3:DQ:75:GLN:HA	3:DQ:183:LEU:O	2.14	0.48
3:DM:75:GLN:HA	3:DM:183:LEU:O	2.14	0.48
3:DL:56:ILE:CD1	3:DL:206:VAL:HG11	2.43	0.48
3:DB:75:GLN:HA	3:DB:183:LEU:O	2.14	0.48
2:CQ:223:ASN:ND2	2:CQ:223:ASN:N	2.60	0.48
2:CX:223:ASN:ND2	2:CX:223:ASN:N	2.60	0.48
3:DW:97:PHE:CE1	3:DW:216:LEU:HD23	2.47	0.48
2:C4:223:ASN:N	2:C4:223:ASN:ND2	2.60	0.48
2:C8:32:THR:HG23	2:C8:172:HIS:ND1	2.29	0.48
2:CG:32:THR:HG23	2:CG:172:HIS:ND1	2.29	0.48
2:CZ:32:THR:HG23	2:CZ:172:HIS:ND1	2.29	0.48
2:CS:32:THR:HG23	2:CS:172:HIS:ND1	2.29	0.48
2:CL:32:THR:HG23	2:CL:172:HIS:ND1	2.29	0.48
2:CB:32:THR:HG23	2:CB:172:HIS:ND1	2.28	0.48
3:DE:121:LEU:HD23	3:DE:121:LEU:O	2.12	0.48
1:AD:238:LYS:HA	3:DD:171:SER:O	2.12	0.48
1:AN:237:HIS:O	3:DB:171:SER:HB2	211.06	0.48
1:AD:237:HIS:HB2	3:DF:81:SER:O	128.57	0.48
1:AQ:237:HIS:HB2	3:DQ:81:SER:O	2.14	0.48
1:AA:238:LYS:HA	3:DA:171:SER:O	2.12	0.48
1:BC:237:HIS:O	3:DR:171:SER:HB2	148.91	0.48
1:A6:237:HIS:HB2	3:D7:81:SER:O	2.14	0.48
1:AH:4:VAL:HG22	3:DJ:151:ASN:O	124.23	0.48
3:DT:130:ALA:O	3:DT:131:ALA:HB3	2.13	0.48
1:AL:27:HIS:O	1:AL:33:LEU:HD21	2.13	0.48
3:D1:130:ALA:O	3:D1:131:ALA:HB3	2.13	0.48
3:DL:130:ALA:O	3:DL:131:ALA:HB3	2.13	0.48
3:DU:130:ALA:O	3:DU:131:ALA:HB3	2.13	0.48
1:BB:171:TYR:N	1:BB:185:ASN:OD1	2.45	0.48
1:BD:4:VAL:HG22	3:DS:151:ASN:O	144.62	0.48
1:AM:4:VAL:HG22	3:DM:151:ASN:O	2.14	0.48
1:AR:150:ARG:HE	1:AR:150:ARG:H	1.60	0.48
1:A6:4:VAL:HG22	3:D7:151:ASN:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:4:VAL:HG22	3:D0:151:ASN:O	2.14	0.48
2:CC:110:VAL:CG1	2:CC:215:VAL:HA	2.43	0.48
2:CM:115:ASN:CA	3:DD:119:LYS:HZ3	161.18	0.48
2:CT:115:ASN:HD22	3:DK:190:ALA:C	2.17	0.48
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:DT:103:SER:HB2	3:DT:159:PRO:HA	1.95	0.48
1:A8:82:LEU:HD23	1:A8:84:LEU:HD11	1.94	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: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:AH:105:LYS:HE3	1:AH:139:SER:OG	2.13	0.48
1:AH:87:GLN:O	1:AH:88:PHE:CB	2.62	0.48
1:AJ:105:LYS:HE3	1:AJ:139:SER:OG	2.14	0.48
1:AK:37:PHE:CD1	1:AK:212:ARG:HB2	2.49	0.48
1:AL:105:LYS:HE3	1:AL:139:SER:OG	2.14	0.48
1:AL:37:PHE:CD1	1:AL:212:ARG:HB2	2.49	0.48
1:AM:37:PHE:CD1	1:AM:212:ARG:HB2	2.49	0.48
1:AA:42:THR:OG1	1:AN:121:LEU:HD23	264.14	0.48
1:AN:105:LYS:HE3	1:AN:139:SER:OG	2.14	0.48
1:A9:121:LEU:HD23	1:AN:42:THR:OG1	160.75	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:AW:105:LYS:HE3	1:AW:139:SER:OG	2.14	0.48
1:BB:37:PHE:CD1	1:BB:212:ARG:HB2	2.49	0.48
1:BI:37:PHE:CD1	1:BI:212:ARG:HB2	2.49	0.48
3:DE:20:ASP:OD2	3:DG:4:ARG:NH1	110.53	0.48
1:AL:156:PHE:CG	3:DL:25:LEU:HD12	2.49	0.48
1:AQ:156:PHE:CG	3:DQ:25:LEU:HD12	2.49	0.48
1:BI:156:PHE:CG	3:EE:25:LEU:HD12	2.49	0.48
4:FK:30:TYR:N	4:FK:30:TYR:CD1	2.81	0.48
4:FT:30:TYR:CD1	4:FT:30:TYR:N	2.81	0.48
1:AV:87:GLN:O	1:AV:88:PHE:CB	2.62	0.48
3:DX:19:PRO:HG3	4:FX:17:ASN:ND2	2.26	0.48
4:F5:30:TYR:CD1	4:F5:30:TYR:N	2.81	0.48
1:A5:37:PHE:CD1	1:A5:212:ARG:HB2	2.49	0.48
3:D8:19:PRO:HG3	4:F8:17:ASN:ND2	2.26	0.48
1:BF:187:LEU:HD12	1:BF:190:ALA:HB2	1.94	0.48
1:AR:187:LEU:HD12	1:AR:190:ALA:HB2	1.95	0.48
1:A6:113:THR:O	1:A6:133:LEU:HD12	2.14	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
2:C1:125:CYS:HB2	2:C1:199:LEU:HD11	1.94	0.48
3:DN:53:PHE:HB3	3:DN:60:PRO:HB2	1.96	0.48
2:CN:200:SER:HA	3:DN:61:TYR:CE2	2.48	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:C4:167:THR:O	2:C4:168:ASN:HB3	2.13	0.48
2:CA:200:SER:HA	3:DA:61:TYR:CE2	2.48	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:167:THR:O	2:CX:168:ASN:HB3	2.13	0.48
2:CM:167:THR:O	2:CM:168:ASN:HB3	2.13	0.48
1:AR:170:PHE:CD2	1:AR:222:ARG:CZ	2.87	0.48
2:C2:167:THR:O	2:C2:168:ASN:HB3	2.13	0.48
2:C0:152:TYR:HE1	3:D0:60:PRO:HB3	1.78	0.48
2:CT:84:PRO:HD2	2:CT:186:LEU:HD22	1.94	0.48
2:C1:84:PRO:HD3	2:C1:108:TRP:CZ2	2.49	0.48
2:CU:84:PRO:HD3	2:CU:108:TRP:CZ2	2.49	0.48
2:CL:84:PRO:HD3	2:CL:108:TRP:CZ2	2.49	0.48
2:CI:84:PRO:HD3	2:CI:108:TRP:CZ2	2.49	0.48
1:AQ:160:TYR:CE1	1:AQ:167:VAL:HG23	2.48	0.48
1:AE:160:TYR:CE1	1:AE:167:VAL:HG23	2.48	0.48
1:AK:160:TYR:CE1	1:AK:167:VAL:HG23	2.48	0.48
2:CS:84:PRO:HD2	2:CS:186:LEU:HD22	1.94	0.48
2:CQ:84:PRO:HD3	2:CQ:108:TRP:CZ2	2.49	0.48
1:AT:160:TYR:CE1	1:AT:167:VAL:HG23	2.48	0.48
1:BF:160:TYR:CE1	1:BF:167:VAL:HG23	2.48	0.48
2:CM:180:PRO:HD2	2:CM:189:HIS:HE1	1.77	0.48
1:AP:160:TYR:CE1	1:AP:167:VAL:HG23	2.48	0.48
1:BI:160:TYR:CE1	1:BI:167:VAL:HG23	2.48	0.48
2:CK:195:VAL:C	2:CK:196:ILE:HG13	2.33	0.48
3:DF:75:GLN:HA	3:DF:183:LEU:O	2.14	0.48
3:DK:75:GLN:HA	3:DK:183:LEU:O	2.14	0.48
2:CZ:195:VAL:C	2:CZ:196:ILE:HG13	2.33	0.48
1:A6:160:TYR:CE1	1:A6:167:VAL:HG23	2.48	0.48
2:C5:227:PRO:HB3	3:D6:132:PRO:HB3	1.94	0.48
3:D7:56:ILE:CD1	3:D7:206:VAL:HG11	2.43	0.48
2:C3:135:THR:HB	2:C3:139:ALA:CA	2.41	0.48
2:CZ:227:PRO:HB3	3:D0:132:PRO:HB3	1.94	0.48
3:DC:75:GLN:HA	3:DC:183:LEU:O	2.14	0.48
2:CO:195:VAL:C	2:CO:196:ILE:HG13	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DO:75:GLN:HA	3:DO:183:LEU:O	2.14	0.48
3:ED:75:GLN:HA	3:ED:183:LEU:O	2.14	0.48
3:DD:56:ILE:CD1	3:DD:206:VAL:HG11	2.43	0.48
2:CN:195:VAL:C	2:CN:196:ILE:HG13	2.33	0.48
3:DN:56:ILE:CD1	3:DN:206:VAL:HG11	2.43	0.48
1:AA:43:LEU:CD2	1:AA:43:LEU:N	2.74	0.48
3:DF:97:PHE:CE1	3:DF:216:LEU:HD23	2.47	0.48
3:EC:97:PHE:CE1	3:EC:216:LEU:HD23	2.48	0.48
2:C1:32:THR:HG23	2:C1:172:HIS:ND1	2.29	0.48
2:CJ:32:THR:HG23	2:CJ:172:HIS:ND1	2.29	0.48
2:CX:32:THR:HG23	2:CX:172:HIS:ND1	2.29	0.48
1:A9:224:ILE:HD11	3:DA:89:TYR:CZ	230.81	0.48
1:AE:224:ILE:HD11	3:DG:89:TYR:CZ	113.97	0.48
1:A1:224:ILE:HD11	3:D2:89:TYR:CZ	2.49	0.48
3:EA:80:LEU:HD12	3:EA:80:LEU:H	1.77	0.48
3:DK:73:LEU:HB3	3:DK:185:VAL:O	2.14	0.48
1:AN:237:HIS:HB2	3:DB:81:SER:O	208.89	0.48
1:AL:237:HIS:HB2	3:DN:81:SER:O	94.68	0.48
1:BD:238:LYS:HA	3:DS:171:SER:O	164.05	0.48
1:AA:237:HIS:HB2	3:DC:81:SER:O	94.68	0.48
1:AE:237:HIS:HB2	3:DE:81:SER:O	2.14	0.48
1:AZ:237:HIS:HB2	3:D0:81:SER:O	2.14	0.48
1:BE:128:VAL:HG11	1:BF:89:LYS:HG2	1.96	0.48
1:AW:237:HIS:HB2	3:DX:81:SER:O	2.14	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:A2:237:HIS:O	3:D3:171:SER:HB2	2.13	0.48
1:BC:238:LYS:HA	3:DR:171:SER:O	149.99	0.48
1:AD:4:VAL:HG22	3:DD:151:ASN:O	2.14	0.48
1:AB:4:VAL:HG22	3:DB:151:ASN:O	2.14	0.48
1:AB:27:HIS:O	1:AB:33:LEU:HD21	2.13	0.48
3:EA:130:ALA:O	3:EA:131:ALA:HB3	2.13	0.48
1:A0:4:VAL:HG22	3:D1:151:ASN:O	2.14	0.48
1:BF:128:VAL:CG1	1:BG:89:LYS:HG2	2.42	0.48
3:DD:130:ALA:O	3:DD:131:ALA:HB3	2.13	0.48
1:AE:171:TYR:N	1:AE:185:ASN:OD1	2.44	0.48
1:BE:150:ARG:H	1:BE:150:ARG:HE	1.60	0.48
1:A6:27:HIS:O	1:A6:33:LEU:HD21	2.13	0.48
3:D7:130:ALA:O	3:D7:131:ALA:HB3	2.13	0.48
3:DI:130:ALA:O	3:DI:131:ALA:HB3	2.13	0.48
2:CW:110:VAL:CG1	2:CW:215:VAL:HA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CJ:110:VAL:CG1	2:CJ:215:VAL:HA	2.43	0.48
2:C1:110:VAL:CG1	2:C1:215:VAL:HA	2.43	0.48
2:CN:115:ASN:CA	3:D2:119:LYS:HZ3	2.27	0.48
3:DD:103:SER:HB3	3:DD:159:PRO:CA	2.35	0.48
3:DS:101:ARG:HA	3:DS:160:TYR:CE2	2.48	0.48
3:D5:101:ARG:HA	3:D5:160:TYR:CE2	2.48	0.48
2:CX:46:THR:CG2	3:EA:165:ASP:HA	158.94	0.48
3:ED:101:ARG:HA	3:ED:160:TYR:CE2	2.48	0.48
1:AH:37:PHE:CD1	1:AH:212:ARG:HB2	2.49	0.48
1:AK:156:PHE:CG	3:DK:25:LEU:HD12	2.49	0.48
1:AP:121:LEU:HD23	1:AQ:42:THR:OG1	2.13	0.48
1:AP:101:PHE:CD2	1:AP:143:VAL:HG11	2.44	0.48
1:AX:156:PHE:CG	3:DY:25:LEU:HD12	2.49	0.48
1:AM:42:THR:OG1	1:BD:121:LEU:HD23	249.57	0.48
1:BF:37:PHE:CD1	1:BF:212:ARG:HB2	2.49	0.48
1:AC:156:PHE:CG	3:DC:25:LEU:HD12	2.49	0.48
4:FD:30:TYR:CD1	4:FD:30:TYR:N	2.81	0.48
4:FU:30:TYR:N	4:FU:30:TYR:CD1	2.81	0.48
3:D5:20:ASP:OD2	3:D7:4:ARG:NH1	2.45	0.48
1:AV:37:PHE:CD1	1:AV:212:ARG:HB2	2.49	0.48
4:FW:30:TYR:CD1	4:FW:30:TYR:N	2.81	0.48
1:A4:87:GLN:O	1:A4:88:PHE:CB	2.62	0.48
1:AE:187:LEU:HD12	1:AE:190:ALA:HB2	1.94	0.48
1:AG:113:THR:O	1:AG:133:LEU:HD12	2.14	0.48
1:BI:113:THR:O	1:BI:133:LEU:HD12	2.14	0.48
1:BB:113:THR:O	1:BB:133:LEU:HD12	2.14	0.48
1:AS:113:THR:O	1:AS:133:LEU:HD12	2.14	0.48
2:CX:226:LEU:CD2	3:EA:126:PRO:HG2	150.23	0.48
2:CW:152:TYR:HE1	3:ED:60:PRO:HB3	251.63	0.48
2:CZ:200:SER:HA	3:DZ:61:TYR:CE2	2.48	0.48
2:CW:167:THR:O	2:CW:168:ASN:HB3	2.13	0.48
2:C4:152:TYR:CE1	3:D4:60:PRO:HG3	2.48	0.48
1:AZ:30:VAL:HG13	1:AZ:218:MET:HE2	1.96	0.48
3:D6:53:PHE:HB3	3:D6:60:PRO:HB2	1.95	0.48
3:D6:53:PHE:HB3	3:D6:60:PRO:CB	2.44	0.48
2:CA:84:PRO:HD2	2:CA:186:LEU:HD22	1.95	0.48
2:CA:84:PRO:HD3	2:CA:108:TRP:CZ2	2.49	0.48
2:C7:84:PRO:HD3	2:C7:108:TRP:CZ2	2.49	0.48
2:CJ:83:LEU:HA	2:CJ:84:PRO:HA	1.60	0.48
2:CH:180:PRO:HD2	2:CH:189:HIS:HE1	1.76	0.48
2:CT:227:PRO:HB3	3:DP:132:PRO:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DP:75:GLN:HA	3:DP:183:LEU:O	2.14	0.48
3:D4:56:ILE:CD1	3:D4:206:VAL:HG11	2.43	0.48
3:D0:56:ILE:CD1	3:D0:206:VAL:HG11	2.43	0.48
3:DE:75:GLN:HA	3:DE:183:LEU:O	2.14	0.48
3:DJ:75:GLN:HA	3:DJ:183:LEU:O	2.14	0.48
3:DY:56:ILE:CD1	3:DY:206:VAL:HG11	2.43	0.48
2:CM:195:VAL:C	2:CM:196:ILE:HG13	2.33	0.48
3:D0:97:PHE:CE1	3:D0:216:LEU:HD23	2.47	0.48
3:D6:97:PHE:CE1	3:D6:216:LEU:HD23	2.48	0.48
2:CR:32:THR:HG23	2:CR:172:HIS:ND1	2.29	0.48
2:CW:32:THR:HG23	2:CW:172:HIS:ND1	2.28	0.48
2:CV:32:THR:HG23	2:CV:172:HIS:ND1	2.29	0.48
4:FO:20:SER:HA	4:FS:25:PHE:O	110.62	0.48
4:F4:25:PHE:O	4:F5:20:SER:HA	2.12	0.48
4:FF:25:PHE:O	4:FG:20:SER:HA	2.12	0.48
1:AK:224:ILE:HD11	3:DM:89:TYR:CZ	83.15	0.48
1:AB:224:ILE:HD11	3:DD:89:TYR:CZ	83.15	0.48
1:AH:224:ILE:HD11	3:DJ:89:TYR:CZ	83.15	0.48
3:D3:80:LEU:HD12	3:D3:80:LEU:H	1.77	0.48
3:D5:73:LEU:HB3	3:D5:185:VAL:O	2.14	0.48
3:DR:73:LEU:HB3	3:DR:185:VAL:O	2.14	0.48
3:D1:73:LEU:HB3	3:D1:185:VAL:O	2.14	0.48
3:D6:73:LEU:HB3	3:D6:185:VAL:O	2.14	0.48
1:AL:237:HIS:O	3:DL:171:SER:HB2	2.13	0.48
1:AB:237:HIS:HB2	3:DB:81:SER:O	2.14	0.48
1:AF:237:HIS:O	3:DH:171:SER:HB2	91.64	0.48
1:AE:237:HIS:HB2	3:DG:81:SER:O	116.76	0.48
1:AE:237:HIS:O	3:DG:171:SER:HB2	115.99	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:AC:237:HIS:O	3:DE:171:SER:HB2	91.64	0.48
1:A0:237:HIS:O	3:D1:171:SER:HB2	2.13	0.48
1:AW:128:VAL:HG11	1:AX:89:LYS:HG2	1.96	0.48
1:A4:128:VAL:HG11	1:A5:89:LYS:HG2	1.96	0.48
1:A9:128:VAL:HG11	1:AN:89:LYS:HG2	160.49	0.48
1:BC:128:VAL:HG11	1:BD:89:LYS:HG2	1.96	0.48
1:BG:238:LYS:HA	3:EC:171:SER:O	2.12	0.48
1:AC:4:VAL:HG22	3:DC:151:ASN:O	2.14	0.48
1:BC:4:VAL:HG22	3:DR:151:ASN:O	140.00	0.48
3:D0:130:ALA:O	3:D0:131:ALA:HB3	2.13	0.48
1:A7:4:VAL:HG22	3:D8:151:ASN:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:4:VAL:HG22	3:DU:151:ASN:O	2.14	0.48
3:EC:130:ALA:O	3:EC:131:ALA:HB3	2.13	0.48
1:A2:4:VAL:HG22	3:D3:151:ASN:O	2.14	0.48
1:AP:27:HIS:O	1:AP:33:LEU:HD21	2.13	0.48
1:AY:27:HIS:O	1:AY:33:LEU:HD21	2.13	0.48
2:CL:42:ARG:HA	2:CL:43:PRO:HD2	1.65	0.48
1:A7:27:HIS:O	1:A7:33:LEU:HD21	2.13	0.48
1:AI:27:HIS:O	1:AI:33:LEU:HD21	2.13	0.48
2:CI:115:ASN:CA	3:DX:119:LYS:HZ3	2.26	0.48
2:C7:110:VAL:CG1	2:C7:215:VAL:HA	2.43	0.48
2:C7:115:ASN:HD22	3:DM:190:ALA:C	157.77	0.48
2:CT:110:VAL:CG1	2:CT:215:VAL:HA	2.43	0.48
2:C6:115:ASN:HD22	3:DE:190:ALA:C	2.17	0.48
2:CE:115:ASN:HD22	3:DF:190:ALA:C	2.17	0.48
2:C4:110:VAL:CG1	2:C4:215:VAL:HA	2.43	0.48
3:DB:101:ARG:HA	3:DB:160:TYR:CE2	2.48	0.48
3:DD:101:ARG:HA	3:DD:160:TYR:CE2	2.48	0.48
3:DM:101:ARG:HA	3:DM:160:TYR:CE2	2.48	0.48
2:CU:46:THR:CG2	3:EC:165:ASP:HA	230.77	0.48
3:DY:101:ARG:HA	3:DY:160:TYR:CE2	2.48	0.48
3:DU:101:ARG:HA	3:DU:160:TYR:CE2	2.48	0.48
1:A9:37:PHE:CD1	1:A9:212:ARG:HB2	2.49	0.48
1:AA:87:GLN:O	1:AA:88:PHE:CB	2.62	0.48
1:AB:37:PHE:CD1	1:AB:212:ARG:HB2	2.49	0.48
1:AI:37:PHE:CD1	1:AI:212:ARG:HB2	2.49	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:156:PHE:CG	3:DO:25:LEU:HD12	38.87	0.48
1:AN:156:PHE:CG	3:DN:25:LEU:HD12	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:BC:87:GLN:O	1:BC:88:PHE:CB	2.62	0.48
1:BD:156:PHE:CG	3:DS:25:LEU:HD12	145.84	0.48
1:BF:82:LEU:HD23	1:BF:84:LEU:HD11	1.94	0.48
1:BG:37:PHE:CD1	1:BG:212:ARG:HB2	2.49	0.48
1:AN:157:SER:CB	3:DB:24:PRO:HA	205.32	0.48
1:BF:156:PHE:CG	3:EB:25:LEU:HD12	2.49	0.48
1:A7:105:LYS:HE3	1:A7:139:SER:OG	2.13	0.48
1:A7:82:LEU:HD23	1:A7:84:LEU:HD11	1.94	0.48
3:D6:19:PRO:HG3	4:F6:17:ASN:ND2	2.26	0.48
1:A0:101:PHE:CD2	1:A0:143:VAL:HG11	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:37:PHE:CD1	1:A0:212:ARG:HB2	2.49	0.48
1:A1:40:VAL:HG22	1:A1:211:TYR:HE1	1.77	0.48
4:F2:30:TYR:N	4:F2:30:TYR:CD1	2.81	0.48
3:D5:3:ILE:HG22	3:D5:4:ARG:N	2.27	0.48
1:BI:187:LEU:HD12	1:BI:190:ALA:HB2	1.94	0.48
1:AL:113:THR:O	1:AL:133:LEU:HD12	2.14	0.48
1:AT:113:THR:O	1:AT:133:LEU:HD12	2.14	0.48
1:AN:103:TRP:HB2	1:AN:198:THR:HG23	1.96	0.48
1:AM:113:THR:O	1:AM:133:LEU:HD12	2.14	0.48
1:AW:103:TRP:HB2	1:AW:198:THR:HG23	1.96	0.48
1:AY:113:THR:O	1:AY:133:LEU:HD12	2.14	0.48
3:DQ:53:PHE:HB3	3:DQ:60:PRO:CB	2.44	0.48
2:CW:226:LEU:CD2	3:EE:126:PRO:HG2	205.93	0.48
3:DN:53:PHE:HB3	3:DN:60:PRO:CB	2.44	0.48
3:DF:53:PHE:HB3	3:DF:60:PRO:CB	2.44	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:DA:53:PHE:HB3	3:DA:60:PRO:CB	2.44	0.48
2:CW:152:TYR:CE1	3:ED:60:PRO:HG3	252.40	0.48
2:C1:200:SER:HA	3:D1:61:TYR:CE2	2.48	0.48
2:CV:167:THR:O	2:CV:168:ASN:HB3	2.13	0.48
2:CF:167:THR:O	2:CF:168:ASN:HB3	2.13	0.48
2:C6:152:TYR:HE1	3:D6:60:PRO:HB3	1.78	0.48
3:D8:53:PHE:HB3	3:D8:60:PRO:CB	2.44	0.48
2:C2:152:TYR:HE1	3:D2:60:PRO:HB3	1.78	0.48
2:CP:84:PRO:HD3	2:CP:108:TRP:CZ2	2.49	0.48
2:CS:84:PRO:HD3	2:CS:108:TRP:CZ2	2.49	0.48
1:AB:160:TYR:CE1	1:AB:167:VAL:HG23	2.48	0.48
2:C4:84:PRO:HD3	2:C4:108:TRP:CZ2	2.49	0.48
3:DH:75:GLN:HA	3:DH:183:LEU:O	2.14	0.48
1:A3:160:TYR:CE1	1:A3:167:VAL:HG23	2.48	0.48
3:DO:56:ILE:CD1	3:DO:206:VAL:HG11	2.43	0.48
3:DT:56:ILE:CD1	3:DT:206:VAL:HG11	2.43	0.48
2:CX:227:PRO:HB3	3:DY:132:PRO:HB3	1.94	0.48
3:EA:75:GLN:HA	3:EA:183:LEU:O	2.14	0.48
3:ED:56:ILE:CD1	3:ED:206:VAL:HG11	2.43	0.48
1:AZ:86:ILE:H	1:AZ:86:ILE:HD12	1.72	0.48
3:EE:56:ILE:CD1	3:EE:206:VAL:HG11	2.43	0.48
2:CU:180:PRO:HD2	2:CU:189:HIS:HE1	1.76	0.48
1:BC:239:PHE:CD1	3:DR:170:TYR:CD2	150.00	0.48
1:A4:239:PHE:CD1	3:D5:170:TYR:CD2	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:43:LEU:CD2	1:AE:43:LEU:N	2.74	0.48
1:AZ:239:PHE:CD1	3:D0:170:TYR:CD2	2.96	0.48
1:AM:43:LEU:CD2	1:AM:43:LEU:N	2.74	0.48
2:CY:223:ASN:ND2	2:CY:223:ASN:N	2.60	0.48
3:DH:70:ASP:HA	3:DH:135:ARG:HH12	1.79	0.48
3:DQ:70:ASP:HA	3:DQ:135:ARG:HH12	1.79	0.48
3:DU:70:ASP:HA	3:DU:135:ARG:HH12	1.79	0.48
2:CI:32:THR:HG23	2:CI:172:HIS:ND1	2.28	0.48
4:FX:25:PHE:O	4:FY:20:SER:HA	2.12	0.48
1:AG:224:ILE:HD11	3:DI:89:TYR:CZ	83.15	0.48
1:AN:224:ILE:HD11	3:DN:89:TYR:CZ	2.49	0.48
1:AD:224:ILE:HD11	3:DF:89:TYR:CZ	111.14	0.48
1:A2:224:ILE:HD11	3:D3:89:TYR:CZ	2.49	0.48
1:A4:224:ILE:HD11	3:D5:89:TYR:CZ	2.49	0.48
2:CA:176:PRO:HD2	2:CA:192:TRP:CZ2	2.49	0.48
4:F0:20:SER:HA	4:FZ:25:PHE:O	2.12	0.48
2:CO:176:PRO:HD2	2:CO:192:TRP:CZ2	2.49	0.48
2:C9:176:PRO:HD2	2:C9:192:TRP:CZ2	2.49	0.48
2:C3:176:PRO:HD2	2:C3:192:TRP:CZ2	2.49	0.48
1:BE:224:ILE:HD11	3:EA:89:TYR:CZ	2.49	0.48
3:D6:80:LEU:H	3:D6:80:LEU:HD12	1.77	0.48
3:DW:73:LEU:HB3	3:DW:185:VAL:O	2.14	0.48
3:EE:73:LEU:HB3	3:EE:185:VAL:O	2.14	0.48
3:DD:73:LEU:HB3	3:DD:185:VAL:O	2.14	0.48
1:AF:237:HIS:HB2	3:DF:81:SER:O	2.14	0.48
1:A9:237:HIS:HB2	3:DA:81:SER:O	245.53	0.48
1:AG:237:HIS:HB2	3:DI:81:SER:O	94.68	0.48
1:AI:237:HIS:HB2	3:DI:81:SER:O	2.14	0.48
1:AE:128:VAL:HG11	1:AF:89:LYS:HG2	130.28	0.48
1:AD:128:VAL:HG11	1:AE:89:LYS:HG2	1.96	0.48
1:AI:128:VAL:HG11	1:AJ:89:LYS:HG2	1.96	0.48
1:BH:237:HIS:HB2	3:ED:81:SER:O	2.14	0.48
1:AU:237:HIS:O	3:DV:171:SER:HB2	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	124.23	0.48
1:AG:4:VAL:HG22	3:DG:151:ASN:O	2.14	0.48
1:AA:4:VAL:HG22	3:DC:151:ASN:O	124.23	0.48
1:A0:27:HIS:O	1:A0:33:LEU:HD21	2.13	0.48
1:AK:27:HIS:O	1:AK:33:LEU:HD21	2.13	0.48
2:CG:42:ARG:HA	2:CG:43:PRO:HD2	1.64	0.48
1:BB:27:HIS:O	1:BB:33:LEU:HD21	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:27:HIS:O	1:A2:33:LEU:HD21	2.13	0.48
3:EB:130:ALA:O	3:EB:131:ALA:HB3	2.13	0.48
1:AE:27:HIS:O	1:AE:33:LEU:HD21	2.13	0.48
1:A1:4:VAL:HG22	3:D2:151:ASN:O	2.14	0.48
1:BG:4:VAL:HG22	3:EC:151:ASN:O	2.14	0.48
1:A5:150:ARG:HE	1:A5:150:ARG:H	1.60	0.48
3:DQ:130:ALA:O	3:DQ:131:ALA:HB3	2.13	0.48
3:DD:36:VAL:HA	3:DD:37:PRO:HD3	1.53	0.48
1:A5:4:VAL:HG22	3:D6:151:ASN:O	2.14	0.48
1:BI:27:HIS:O	1:BI:33:LEU:HD21	2.13	0.48
2:CH:115:ASN:HD22	3:DN:190:ALA:C	264.44	0.48
2:CT:115:ASN:HD22	3:DH:190:ALA:C	233.54	0.48
2:CU:115:ASN:CA	3:DG:119:LYS:HZ3	248.38	0.48
3:DC:101:ARG:HD2	3:DC:165:ASP:O	2.14	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:DO:101:ARG:HD2	3:DO:165:ASP:O	2.14	0.48
3:EC:101:ARG:HA	3:EC:160:TYR:CE2	2.48	0.48
1:AV:19:LEU:HD12	2:CV:48:SER:HB2	1.93	0.48
3:DR:101:ARG:HA	3:DR:160:TYR:CE2	2.48	0.48
1:AA:37:PHE:CD1	1:AA:212:ARG:HB2	2.49	0.48
1:AB:156:PHE:CG	3:DB:25:LEU:HD12	2.49	0.48
1:AC:101:PHE:O	1:AC:199:SER:CB	2.62	0.48
1:AE:101:PHE:O	1:AE:199:SER:CB	2.62	0.48
1:AF:137:GLY:HA2	1:AG:38:PHE:CD1	2.48	0.48
1:AF:37:PHE:CD1	1:AF:212:ARG:HB2	2.49	0.48
1:AG:37:PHE:CD1	1:AG:212:ARG:HB2	2.49	0.48
1:AI:139:SER:HA	1:AI:140:PRO:HD3	1.62	0.48
1:AJ:101:PHE:O	1:AJ:199:SER:CB	2.62	0.48
1:AJ:40:VAL:HG22	1:AJ:211:TYR:HE1	1.77	0.48
1:AJ:87:GLN:O	1:AJ:88:PHE:CB	2.62	0.48
1:AK:101:PHE:O	1:AK:199:SER:CB	2.62	0.48
1:AK:42:THR:OG1	1:AO:121:LEU:HD23	2.13	0.48
1:AO:37:PHE:CD1	1:AO:212:ARG:HB2	2.49	0.48
1:AP:105:LYS:HE3	1:AP:139:SER:OG	2.13	0.48
1:AT:37:PHE:CD1	1:AT:212:ARG:HB2	2.49	0.48
1:BD:87:GLN:O	1:BD:88:PHE:CB	2.62	0.48
1:BG:87:GLN:O	1:BG:88:PHE:CB	2.62	0.48
1:AB:156:PHE:CG	3:DD:25:LEU:HD12	38.86	0.48
1:AI:156:PHE:CG	3:DI:25:LEU:HD12	2.49	0.48
4:FM:30:TYR:N	4:FM:30:TYR:CD1	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:82:LEU:HD23	1:A0:84:LEU:HD11	1.94	0.48
1:A2:40:VAL:HG22	1:A2:211:TYR:HE1	1.77	0.48
1:AB:187:LEU:HD12	1:AB:190:ALA:HB2	1.94	0.48
1:A5:101:PHE:O	1:A5:199:SER:CB	2.62	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:BG:187:LEU:HD12	1:BG:190:ALA:HB2	1.94	0.48
1:AD:103:TRP:HB2	1:AD:198:THR:HG23	1.96	0.48
1:AE:113:THR:O	1:AE:133:LEU:HD12	2.14	0.48
1:AJ:103:TRP:HB2	1:AJ:198:THR:HG23	1.96	0.48
1:AR:113:THR:O	1:AR:133:LEU:HD12	2.14	0.48
1:A5:113:THR:O	1:A5:133:LEU:HD12	2.14	0.48
1:AH:113:THR:O	1:AH:133:LEU:HD12	2.14	0.48
3:DH:53:PHE:HB3	3:DH:60:PRO:HB2	1.96	0.48
2:CN:152:TYR:HE1	3:DN:60:PRO:HB3	1.78	0.48
3:EC:53:PHE:HB3	3:EC:60:PRO:CB	2.44	0.48
2:CB:226:LEU:CD2	3:DC:126:PRO:HG2	2.36	0.48
3:DJ:53:PHE:HB3	3:DJ:60:PRO:HB2	1.96	0.48
3:DX:53:PHE:HB3	3:DX:60:PRO:CB	2.44	0.48
3:EE:53:PHE:HB3	3:EE:60:PRO:CB	2.44	0.48
2:C3:152:TYR:HE1	3:D3:60:PRO:HB3	1.78	0.48
3:DR:53:PHE:HB3	3:DR:60:PRO:CB	2.44	0.48
3:D9:53:PHE:HB3	3:D9:60:PRO:CB	2.44	0.48
3:D5:53:PHE:HB3	3:D5:60:PRO:CB	2.44	0.48
2:CN:167:THR:O	2:CN:168:ASN:HB3	2.13	0.48
1:AD:170:PHE:CD2	1:AD:222:ARG:CZ	2.87	0.48
2:CB:152:TYR:CE1	3:DB:60:PRO:HG3	2.48	0.48
2:C7:152:TYR:CE1	3:D7:60:PRO:HG3	2.48	0.48
2:CK:84:PRO:HD3	2:CK:108:TRP:CZ2	2.49	0.48
2:CC:84:PRO:HD3	2:CC:108:TRP:CZ2	2.49	0.48
2:CX:84:PRO:HD3	2:CX:108:TRP:CZ2	2.49	0.48
2:CJ:84:PRO:HD2	2:CJ:186:LEU:HD22	1.94	0.48
1:BB:160:TYR:CE1	1:BB:167:VAL:HG23	2.48	0.48
2:CQ:84:PRO:HD2	2:CQ:186:LEU:HD22	1.94	0.48
2:CC:180:PRO:HD2	2:CC:189:HIS:HE1	1.77	0.48
2:CV:84:PRO:HD3	2:CV:108:TRP:CZ2	2.49	0.48
2:CW:84:PRO:HD3	2:CW:108:TRP:CZ2	2.49	0.48
3:DV:56:ILE:CD1	3:DV:206:VAL:HG11	2.43	0.48
3:EC:56:ILE:CD1	3:EC:206:VAL:HG11	2.43	0.48
2:CE:84:PRO:HD3	2:CE:108:TRP:CZ2	2.49	0.48
3:DZ:56:ILE:CD1	3:DZ:206:VAL:HG11	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:195:VAL:C	2:C8:196:ILE:HG13	2.33	0.48
3:D8:75:GLN:HA	3:D8:183:LEU:O	2.14	0.48
2:C1:227:PRO:HB3	3:D2:132:PRO:HB3	1.94	0.48
3:D9:75:GLN:HA	3:D9:183:LEU:O	2.14	0.48
3:DW:56:ILE:CD1	3:DW:206:VAL:HG11	2.43	0.48
2:CX:195:VAL:C	2:CX:196:ILE:HG13	2.33	0.48
3:DX:56:ILE:CD1	3:DX:206:VAL:HG11	2.43	0.48
3:DN:75:GLN:HA	3:DN:183:LEU:O	2.14	0.48
1:AJ:239:PHE:CD1	3:DL:170:TYR:CD2	276.71	0.48
1:AD:43:LEU:N	1:AD:43:LEU:CD2	2.74	0.48
1:A5:43:LEU:N	1:A5:43:LEU:CD2	2.74	0.48
3:EA:97:PHE:CE1	3:EA:216:LEU:HD23	2.47	0.48
3:DB:70:ASP:HA	3:DB:135:ARG:HH12	1.79	0.48
3:DY:70:ASP:HA	3:DY:135:ARG:HH12	1.79	0.48
3:D1:70:ASP:HA	3:D1:135:ARG:HH12	1.79	0.48
2:CO:32:THR:HG23	2:CO:172:HIS:ND1	2.29	0.48
2:C3:32:THR:HG23	2:C3:172:HIS:ND1	2.29	0.48
2:CU:32:THR:HG23	2:CU:172:HIS:ND1	2.29	0.48
2:CT:32:THR:HG23	2:CT:172:HIS:ND1	2.29	0.48
4:FI:25:PHE:O	4:FJ:20:SER:HA	2.12	0.48
1:AG:224:ILE:HD11	3:DG:89:TYR:CZ	2.49	0.48
1:AA:224:ILE:HD11	3:DC:89:TYR:CZ	83.15	0.48
1:AI:224:ILE:HD11	3:DI:89:TYR:CZ	2.49	0.48
1:AJ:224:ILE:HD11	3:DL:89:TYR:CZ	250.42	0.48
1:AQ:224:ILE:HD11	3:DQ:89:TYR:CZ	2.49	0.48
1:AR:224:ILE:HD11	3:DR:89:TYR:CZ	2.49	0.48
2:CW:176:PRO:HD2	2:CW:192:TRP:CZ2	2.49	0.48
2:CE:176:PRO:HD2	2:CE:192:TRP:CZ2	2.49	0.48
2:CM:176:PRO:HD2	2:CM:192:TRP:CZ2	2.49	0.48
2:CU:176:PRO:HD2	2:CU:192:TRP:CZ2	2.49	0.48
3:DP:73:LEU:HB3	3:DP:185:VAL:O	2.14	0.48
3:DY:73:LEU:HB3	3:DY:185:VAL:O	2.14	0.48
3:DC:73:LEU:HB3	3:DC:185:VAL:O	2.14	0.48
1:AB:237:HIS:HB2	3:DD:81:SER:O	94.68	0.48
1:AJ:237:HIS:O	3:DL:171:SER:HB2	279.05	0.48
1:AH:128:VAL:HG11	1:AI:89:LYS:HG2	1.96	0.48
1:BD:237:HIS:HB2	3:DS:81:SER:O	164.15	0.48
1:AV:128:VAL:HG11	1:AW:89:LYS:HG2	1.96	0.48
1:AL:128:VAL:HG11	1:AM:89:LYS:HG2	1.96	0.48
1:AF:89:LYS:HG2	1:AJ:128:VAL:HG11	1.96	0.48
1:AO:89:LYS:HG2	1:AR:128:VAL:HG11	147.88	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:237:HIS:HB2	3:D5:81:SER:O	2.13	0.48
1:AA:128:VAL:HG11	1:AB:89:LYS:HG2	1.96	0.48
1:A1:128:VAL:HG11	1:A2:89:LYS:HG2	1.96	0.48
1:AW:237:HIS:O	3:DX:171:SER:HB2	2.13	0.48
1:AM:128:VAL:HG11	1:AN:89:LYS:HG2	1.96	0.48
1:AR:237:HIS:HB2	3:DR:81:SER:O	2.14	0.48
1:A3:89:LYS:HG2	1:A7:128:VAL:HG11	1.96	0.48
1:AX:237:HIS:HB2	3:DY:81:SER:O	2.14	0.48
1:A3:237:HIS:O	3:D4:171:SER:HB2	2.13	0.48
1:AQ:128:VAL:HG11	1:AR:89:LYS:HG2	1.96	0.48
1:AJ:4:VAL:HG22	3:DL:151:ASN:O	238.04	0.48
1:AA:4:VAL:HG22	3:DA:151:ASN:O	2.14	0.48
1:AI:4:VAL:HG22	3:DI:151:ASN:O	2.14	0.48
1:AM:4:VAL:HG22	3:DO:151:ASN:O	124.23	0.48
1:AO:4:VAL:HG22	3:DS:151:ASN:O	140.86	0.48
1:BF:128:VAL:HG11	1:BG:89:LYS:HG2	1.96	0.48
1:BC:27:HIS:O	1:BC:33:LEU:HD21	2.13	0.48
3:DV:130:ALA:O	3:DV:131:ALA:HB3	2.13	0.48
3:DN:130:ALA:O	3:DN:131:ALA:HB3	2.13	0.48
3:EE:130:ALA:O	3:EE:131:ALA:HB3	2.13	0.48
1:A3:4:VAL:HG22	3:D4:151:ASN:O	2.14	0.48
3:D8:130:ALA:O	3:D8:131:ALA:HB3	2.13	0.48
2:C2:110:VAL:CG1	2:C2:215:VAL:HA	2.43	0.48
2:CO:115:ASN:CA	3:DR:119:LYS:HZ3	150.95	0.48
2:CP:115:ASN:HD22	3:D1:190:ALA:C	2.17	0.48
2:CF:115:ASN:HD22	3:DV:190:ALA:C	186.88	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:DH:103:SER:HB2	3:DH:159:PRO:HA	1.95	0.48
3:DH:101:ARG:HD2	3:DH:165:ASP:O	2.14	0.48
3:EC:103:SER:HB2	3:EC:159:PRO:HA	1.95	0.48
3:EE:101:ARG:HD2	3:EE:165:ASP:O	2.14	0.48
3:DZ:103:SER:HB2	3:DZ:159:PRO:HA	1.95	0.48
3:DZ:101:ARG:HD2	3:DZ:165:ASP:O	2.14	0.48
3:D4:101:ARG:HD2	3:D4:165:ASP:O	2.14	0.48
3:EA:101:ARG:HD2	3:EA:165:ASP:O	2.14	0.48
3:DW:101:ARG:HD2	3:DW:165:ASP:O	2.14	0.48
3:D2:101:ARG:HD2	3:D2:165:ASP:O	2.14	0.48
3:D0:101:ARG:HD2	3:D0:165:ASP:O	2.14	0.48
1:A8:37:PHE:CD1	1:A8:212:ARG:HB2	2.49	0.48
1:AA:105:LYS:HE3	1:AA:139:SER:OG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:37:PHE:CD1	1:AC:212:ARG:HB2	2.49	0.48
1:AB:121:LEU:HD23	1:AC:42:THR:OG1	2.13	0.48
1:AD:101:PHE:O	1:AD:199:SER:CB	2.62	0.48
1:AH:101:PHE:O	1:AH:199:SER:CB	2.62	0.48
1:AH:156:PHE:CG	3:DJ:25:LEU:HD12	38.87	0.48
1:AJ:121:LEU:HD23	1:AK:42:THR:OG1	287.75	0.48
1:AM:121:LEU:HD23	1:AN:42:THR:OG1	2.13	0.48
1:AV:101:PHE:CD2	1:AV:143:VAL:HG11	2.44	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:101:PHE:O	1:BB:199:SER:CB	2.62	0.48
1:BB:87:GLN:O	1:BB:88:PHE:CB	2.62	0.48
1:AE:157:SER:CB	3:DE:24:PRO:HA	2.36	0.48
1:AV:156:PHE:CG	3:DW:25:LEU:HD12	2.49	0.48
4:FY:30:TYR:N	4:FY:30:TYR:CD1	2.81	0.48
1:A7:156:PHE:CG	3:D8:25:LEU:HD12	2.49	0.48
1:A7:101:PHE:O	1:A7:199:SER:CB	2.62	0.48
1:A3:101:PHE:O	1:A3:199:SER:CB	2.62	0.48
1:A0:156:PHE:CG	3:D1:25:LEU:HD12	2.49	0.48
1:AY:101:PHE:O	1:AY:199:SER:CB	2.62	0.48
1:BE:113:THR:O	1:BE:133:LEU:HD12	2.14	0.48
1:AD:113:THR:O	1:AD:133:LEU:HD12	2.14	0.48
1:AW:113:THR:O	1:AW:133:LEU:HD12	2.14	0.48
1:AV:113:THR:O	1:AV:133:LEU:HD12	2.14	0.48
1:BC:113:THR:O	1:BC:133:LEU:HD12	2.14	0.48
3:DI:53:PHE:HB3	3:DI:60:PRO:CB	2.44	0.48
2:CV:152:TYR:CE1	3:EC:60:PRO:HG3	262.32	0.48
3:EA:53:PHE:HB3	3:EA:60:PRO:CB	2.44	0.48
3:DL:53:PHE:HB3	3:DL:60:PRO:CB	2.44	0.48
1:AC:30:VAL:HG13	1:AC:218:MET:HE2	1.94	0.48
3:DR:53:PHE:HB3	3:DR:60:PRO:HB2	1.96	0.48
2:CJ:167:THR:O	2:CJ:168:ASN:HB3	2.13	0.48
3:DO:53:PHE:HB3	3:DO:60:PRO:HB2	1.96	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:D7:53:PHE:HB3	3:D7:60:PRO:CB	2.44	0.48
3:DD:53:PHE:HB3	3:DD:60:PRO:CB	2.44	0.48
2:CS:13:ARG:HA	2:CS:13:ARG:HD3	1.72	0.48
2:CZ:167:THR:O	2:CZ:168:ASN:HB3	2.13	0.48
2:CN:84:PRO:HD3	2:CN:108:TRP:CZ2	2.49	0.48
2:C2:84:PRO:HD3	2:C2:108:TRP:CZ2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CZ:83:LEU:HA	2:CZ:84:PRO:HA	1.60	0.48
2:CB:84:PRO:HD2	2:CB:186:LEU:HD22	1.95	0.48
1:AW:160:TYR:CE1	1:AW:167:VAL:HG23	2.48	0.48
2:CT:227:PRO:HB3	3:EB:132:PRO:HB3	237.46	0.48
3:EB:75:GLN:HA	3:EB:183:LEU:O	2.14	0.48
3:DV:75:GLN:HA	3:DV:183:LEU:O	2.14	0.48
2:CV:180:PRO:HD2	2:CV:189:HIS:HE1	1.76	0.48
3:D6:75:GLN:HA	3:D6:183:LEU:O	2.14	0.48
3:D3:75:GLN:HA	3:D3:183:LEU:O	2.14	0.48
3:DY:75:GLN:HA	3:DY:183:LEU:O	2.14	0.48
3:DO:70:ASP:HA	3:DO:135:ARG:HH12	1.79	0.48
3:D9:70:ASP:HA	3:D9:135:ARG:HH12	1.79	0.48
2:CP:32:THR:HG23	2:CP:172:HIS:ND1	2.29	0.48
2:CN:32:THR:HG23	2:CN:172:HIS:ND1	2.29	0.48
2:CY:32:THR:HG23	2:CY:172:HIS:ND1	2.29	0.48
2:CA:32:THR:HG23	2:CA:172:HIS:ND1	2.29	0.48
2:CM:32:THR:HG23	2:CM:172:HIS:ND1	2.29	0.48
1:AC:224:ILE:HD11	3:DE:89:TYR:CZ	83.15	0.48
1:AO:224:ILE:HD11	3:DS:89:TYR:CZ	129.50	0.48
1:AN:224:ILE:HD11	3:DB:89:TYR:CZ	190.06	0.48
1:BB:224:ILE:HD11	3:DQ:89:TYR:CZ	111.01	0.48
1:AT:224:ILE:HD11	3:DU:89:TYR:CZ	2.49	0.48
1:A6:224:ILE:HD11	3:D7:89:TYR:CZ	2.49	0.48
2:CQ:176:PRO:HD2	2:CQ:192:TRP:CZ2	2.49	0.48
1:AX:224:ILE:HD11	3:DY:89:TYR:CZ	2.49	0.48
2:CG:176:PRO:HD2	2:CG:192:TRP:CZ2	2.49	0.48
2:CH:176:PRO:HD2	2:CH:192:TRP:CZ2	2.49	0.48
2:C1:176:PRO:HD2	2:C1:192:TRP:CZ2	2.49	0.48
3:DS:80:LEU:HD12	3:DS:80:LEU:H	1.77	0.48
2:CY:176:PRO:HD2	2:CY:192:TRP:CZ2	2.49	0.48
3:DJ:73:LEU:HB3	3:DJ:185:VAL:O	2.14	0.48
3:D8:73:LEU:HB3	3:D8:185:VAL:O	2.14	0.48
3:DV:73:LEU:HB3	3:DV:185:VAL:O	2.14	0.48
3:EB:73:LEU:HB3	3:EB:185:VAL:O	2.14	0.48
3:D7:73:LEU:HB3	3:D7:185:VAL:O	2.14	0.48
1:AF:237:HIS:O	3:DF:171:SER:HB2	2.13	0.48
1:A7:237:HIS:O	3:D8:171:SER:HB2	2.13	0.48
1:AA:89:LYS:HG2	1:AN:128:VAL:HG11	268.67	0.48
1:AA:89:LYS:HG2	1:AE:128:VAL:HG11	1.96	0.48
1:AN:128:VAL:HG11	1:AO:89:LYS:HG2	1.96	0.48
1:BE:237:HIS:HB2	3:EA:81:SER:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:237:HIS:HB2	3:DU:81:SER:O	2.14	0.48
1:BC:237:HIS:HB2	3:DR:81:SER:O	150.42	0.48
1:AT:89:LYS:HG2	1:AX:128:VAL:HG11	1.96	0.48
1:AH:4:VAL:HG22	3:DH:151:ASN:O	2.14	0.48
3:DG:130:ALA:O	3:DG:131:ALA:HB3	2.13	0.48
2:CP:42:ARG:HA	2:CP:43:PRO:HD2	1.64	0.48
3:DI:36:VAL:HA	3:DI:37:PRO:HD3	1.53	0.48
1:BD:27:HIS:O	1:BD:33:LEU:HD21	2.13	0.48
3:DA:36:VAL:HA	3:DA:37:PRO:HD3	1.53	0.48
1:A5:27:HIS:O	1:A5:33:LEU:HD21	2.13	0.48
1:BF:27:HIS:O	1:BF:33:LEU:HD21	2.13	0.48
3:DZ:130:ALA:O	3:DZ:131:ALA:HB3	2.13	0.48
2:CJ:212:THR:HG23	3:DA:188:LEU:HD22	1.96	0.48
2:C5:110:VAL:CG1	2:C5:215:VAL:HA	2.43	0.48
2:CD:115:ASN:CA	3:D7:119:LYS:HZ3	2.26	0.48
2:CG:115:ASN:HD22	3:EB:190:ALA:C	2.17	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:101:ARG:HD2	3:DF:165:ASP:O	2.14	0.48
2:CF:46:THR:CG2	3:DG:165:ASP:HA	2.38	0.48
3:DP:103:SER:HB2	3:DP:159:PRO:HA	1.95	0.48
3:DZ:101:ARG:HA	3:DZ:160:TYR:CE2	2.48	0.48
3:DW:101:ARG:HA	3:DW:160:TYR:CE2	2.48	0.48
1:A8:101:PHE:O	1:A8:199:SER:CB	2.62	0.48
1:AC:156:PHE:CG	3:DE:25:LEU:HD12	38.87	0.48
1:AE:156:PHE:CG	3:DE:25:LEU:HD12	2.49	0.48
1:AE:156:PHE:CG	3:DG:25:LEU:HD12	136.17	0.48
1:AF:101:PHE:O	1:AF:199:SER:CB	2.62	0.48
1:AF:42:THR:OG1	1:AJ:121:LEU:HD23	2.13	0.48
1:AI:105:LYS:HE3	1:AI:139:SER:OG	2.13	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:AN:87:GLN:O	1:AN:88:PHE:CB	2.62	0.48
1:AR:101:PHE:O	1:AR:199:SER:CB	2.62	0.48
1:AS:156:PHE:CG	3:DT:25:LEU:HD12	2.49	0.48
1:AS:87:GLN:O	1:AS:88:PHE:CB	2.62	0.48
1:BF:101:PHE:O	1:BF:199:SER:CB	2.62	0.48
1:A9:156:PHE:CG	3:DA:25:LEU:HD12	234.88	0.48
1:AN:156:PHE:CG	3:DB:25:LEU:HD12	215.71	0.48
1:AJ:156:PHE:CG	3:DJ:25:LEU:HD12	2.49	0.48
1:AM:156:PHE:CG	3:DM:25:LEU:HD12	2.49	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:BE:156:PHE:CG	3:EA:25:LEU:HD12	2.49	0.48
4:FV:30:TYR:CD1	4:FV:30:TYR:N	2.81	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:A3:157:SER:CB	3:D4:24:PRO:HA	2.36	0.48
1:AU:121:LEU:HD23	1:AV:42:THR:OG1	2.13	0.48
1:BH:37:PHE:CD1	1:BH:212:ARG:HB2	2.49	0.48
1:AZ:101:PHE:O	1:AZ:199:SER:CB	2.62	0.48
1:A2:101:PHE:O	1:A2:199:SER:CB	2.62	0.48
1:AY:82:LEU:HD23	1:AY:84:LEU:HD11	1.94	0.48
1:AZ:37:PHE:CD1	1:AZ:212:ARG:HB2	2.49	0.48
1:AY:121:LEU:HD23	1:AZ:42:THR:OG1	2.13	0.48
1:A9:187:LEU:HD12	1:A9:190:ALA:HB2	1.94	0.48
1:A6:37:PHE:CD1	1:A6:212:ARG:HB2	2.49	0.48
1:BF:113:THR:O	1:BF:133:LEU:HD12	2.14	0.48
1:AJ:113:THR:O	1:AJ:133:LEU:HD12	2.14	0.48
1:AO:103:TRP:HB2	1:AO:198:THR:HG23	1.96	0.48
1:BH:113:THR:O	1:BH:133:LEU:HD12	2.14	0.48
1:A7:113:THR:O	1:A7:133:LEU:HD12	2.14	0.48
2:CP:152:TYR:HE1	3:DP:60:PRO:HB3	1.78	0.48
3:DM:53:PHE:HB3	3:DM:60:PRO:CB	2.44	0.48
3:DY:53:PHE:HB3	3:DY:60:PRO:CB	2.44	0.48
2:CY:200:SER:HA	3:DY:61:TYR:CE2	2.48	0.48
3:DH:53:PHE:HB3	3:DH:60:PRO:CB	2.44	0.48
3:DV:53:PHE:HB3	3:DV:60:PRO:HB2	1.96	0.48
3:DJ:53:PHE:HB3	3:DJ:60:PRO:CB	2.44	0.48
2:CT:200:SER:HA	3:DT:61:TYR:CE2	2.48	0.48
2:CT:167:THR:O	2:CT:168:ASN:HB3	2.13	0.48
2:CO:167:THR:O	2:CO:168:ASN:HB3	2.14	0.48
3:DW:53:PHE:HB3	3:DW:60:PRO:CB	2.44	0.48
2:C5:152:TYR:HE1	3:D5:60:PRO:HB3	1.78	0.48
2:C1:167:THR:O	2:C1:168:ASN:HB3	2.13	0.48
3:DB:53:PHE:HB3	3:DB:60:PRO:CB	2.44	0.48
2:CB:200:SER:HA	3:DB:61:TYR:CE2	2.48	0.48
2:C8:200:SER:HA	3:D8:61:TYR:CE2	2.48	0.48
2:C3:167:THR:O	2:C3:168:ASN:HB3	2.13	0.48
2:CL:83:LEU:HA	2:CL:84:PRO:HA	1.59	0.48
1:AD:160:TYR:CE1	1:AD:167:VAL:HG23	2.48	0.48
2:CA:180:PRO:HD2	2:CA:189:HIS:HE1	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:56:ILE:CD1	3:D8:206:VAL:HG11	2.43	0.48
1:AR:160:TYR:CE1	1:AR:167:VAL:HG23	2.48	0.48
3:DT:75:GLN:HA	3:DT:183:LEU:O	2.14	0.48
1:BB:86:ILE:H	1:BB:86:ILE:HD12	1.73	0.48
1:A5:86:ILE:HD12	1:A5:86:ILE:H	1.72	0.48
3:D8:70:ASP:HA	3:D8:135:ARG:HH12	1.79	0.48
3:DT:70:ASP:HA	3:DT:135:ARG:HH12	1.79	0.48
3:DJ:70:ASP:HA	3:DJ:135:ARG:HH12	1.79	0.48
3:D3:70:ASP:HA	3:D3:135:ARG:HH12	1.79	0.48
2:C7:32:THR:HG23	2:C7:172:HIS:ND1	2.29	0.48
2:CF:32:THR:HG23	2:CF:172:HIS:ND1	2.28	0.48
3:DK:110:PHE:HB3	3:DK:148:VAL:HG11	1.96	0.48
2:C2:32:THR:HG23	2:C2:172:HIS:ND1	2.29	0.48
1:BD:224:ILE:HD11	3:DS:89:TYR:CZ	150.07	0.48
1:AE:224:ILE:HD11	3:DE:89:TYR:CZ	2.49	0.48
1:AO:224:ILE:HD11	3:DO:89:TYR:CZ	2.49	0.48
1:BG:224:ILE:HD11	3:EC:89:TYR:CZ	2.49	0.48
4:F6:25:PHE:O	4:F7:20:SER:HA	2.12	0.48
1:A0:224:ILE:HD11	3:D1:89:TYR:CZ	2.49	0.48
1:AW:224:ILE:HD11	3:DX:89:TYR:CZ	2.49	0.48
2:C2:176:PRO:HD2	2:C2:192:TRP:CZ2	2.49	0.48
2:CZ:176:PRO:HD2	2:CZ:192:TRP:CZ2	2.49	0.48
2:CV:176:PRO:HD2	2:CV:192:TRP:CZ2	2.49	0.48
2:C6:176:PRO:HD2	2:C6:192:TRP:CZ2	2.49	0.48
3:DS:73:LEU:HB3	3:DS:185:VAL:O	2.14	0.48
3:DO:73:LEU:HB3	3:DO:185:VAL:O	2.14	0.48
3:DH:73:LEU:HB3	3:DH:185:VAL:O	2.14	0.48
3:DL:73:LEU:HB3	3:DL:185:VAL:O	2.14	0.48
3:D3:73:LEU:HB3	3:D3:185:VAL:O	2.14	0.48
3:DF:73:LEU:HB3	3:DF:185:VAL:O	2.14	0.48
3:D0:73:LEU:HB3	3:D0:185:VAL:O	2.14	0.48
1:AH:237:HIS:O	3:DJ:171:SER:HB2	91.64	0.48
1:AH:237:HIS:HB2	3:DH:81:SER:O	2.14	0.48
1:BE:89:LYS:HG2	1:BI:128:VAL:HG11	1.96	0.48
1:AC:128:VAL:HG11	1:AD:89:LYS:HG2	1.96	0.48
1:A1:237:HIS:O	3:D2:171:SER:HB2	2.13	0.48
1:BA:237:HIS:O	3:DP:171:SER:HB2	132.62	0.48
1:A2:237:HIS:HB2	3:D3:81:SER:O	2.14	0.48
1:AX:237:HIS:O	3:DY:171:SER:HB2	2.13	0.48
1:A2:128:VAL:HG11	1:AY:89:LYS:HG2	1.96	0.48
1:AB:4:VAL:HG22	3:DD:151:ASN:O	124.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:4:VAL:HG22	3:DB:151:ASN:O	158.88	0.48
3:D9:130:ALA:O	3:D9:131:ALA:HB3	2.13	0.48
1:AC:27:HIS:O	1:AC:33:LEU:HD21	2.13	0.48
1:BF:171:TYR:N	1:BF:185:ASN:OD1	2.45	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:AP:4:VAL:HG22	3:DP:151:ASN:O	2.14	0.48
2:C8:115:ASN:CA	3:D9:119:LYS:HZ2	2.26	0.48
2:CC:115:ASN:HB2	3:ED:189:THR:HG22	247.81	0.48
2:CI:212:THR:HG23	3:DX:188:LEU:HD22	1.96	0.48
2:CK:115:ASN:CA	3:DA:119:LYS:HZ3	272.85	0.48
2:CM:115:ASN:HB2	3:DI:189:THR:HG22	260.66	0.48
2:CD:212:THR:HG23	3:D7:188:LEU:HD22	1.96	0.48
2:CD:115:ASN:HB2	3:D4:189:THR:HG22	148.62	0.48
2:CX:115:ASN:HB2	3:DR:189:THR:HG22	153.12	0.48
2:CG:115:ASN:C	3:EB:119:LYS:HZ3	2.16	0.48
2:C0:115:ASN:CA	3:DQ:119:LYS:HZ3	2.26	0.48
2:CP:212:THR:HG23	3:D0:188:LEU:HD22	88.17	0.48
1:BF:17:HIS:O	2:CT:48:SER:HA	192.71	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:101:ARG:HA	3:DF:160:TYR:CE2	2.48	0.48
3:DH:157:ASN:O	3:DH:159:PRO:HD3	2.14	0.48
3:DN:103:SER:HB3	3:DN:159:PRO:CA	2.35	0.48
3:DR:101:ARG:HD2	3:DR:165:ASP:O	2.14	0.48
3:D8:101:ARG:HD2	3:D8:165:ASP:O	2.14	0.48
3:D2:101:ARG:HA	3:D2:160:TYR:CE2	2.48	0.48
1:AA:156:PHE:CG	3:DC:25:LEU:HD12	38.87	0.48
1:AC:105:LYS:HE3	1:AC:139:SER:OG	2.13	0.48
1:AD:37:PHE:CD1	1:AD:212:ARG:HB2	2.49	0.48
1:AE:120:GLN:HB2	1:AE:129:ARG:HD3	1.96	0.48
1:AI:101:PHE:O	1:AI:199:SER:CB	2.62	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:AN:101:PHE:O	1:AN:199:SER:CB	2.62	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:105:LYS:HE3	1:AX:139:SER:OG	2.13	0.48
1:AX:37:PHE:CD1	1:AX:212:ARG:HB2	2.49	0.48
1:BB:149:SER:C	1:BB:151:SER:H	2.18	0.48
1:BA:121:LEU:HD23	1:BB:42:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:120:GLN:HB2	1:BF:129:ARG:HD3	1.96	0.48
1:BH:121:LEU:HD23	1:BI:42:THR:OG1	2.13	0.48
1:AF:156:PHE:CG	3:DF:25:LEU:HD12	2.49	0.48
1:AL:156:PHE:CG	3:DN:25:LEU:HD12	38.87	0.48
3:DL:44:ILE:HG23	3:DL:45:ASP:N	2.29	0.48
3:DH:44:ILE:HG23	3:DH:45:ASP:N	2.29	0.48
3:DK:44:ILE:HG23	3:DK:45:ASP:N	2.29	0.48
3:D5:44:ILE:HG23	3:D5:45:ASP:N	2.29	0.48
4:F8:30:TYR:CD1	4:F8:30:TYR:N	2.81	0.48
1:A4:101:PHE:CD2	1:A4:143:VAL:HG11	2.44	0.48
3:D4:3:ILE:HG22	3:D4:4:ARG:N	2.27	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:AY:137:GLY:HA2	1:AZ:38:PHE:CD1	2.49	0.48
1:AZ:87:GLN:O	1:AZ:88:PHE:CB	2.62	0.48
1:AP:103:TRP:HB2	1:AP:198:THR:HG23	1.96	0.48
1:AC:113:THR:O	1:AC:133:LEU:HD12	2.14	0.48
1:AZ:113:THR:O	1:AZ:133:LEU:HD12	2.14	0.48
1:A1:103:TRP:HB2	1:A1:198:THR:HG23	1.96	0.48
1:A2:113:THR:O	1:A2:133:LEU:HD12	2.14	0.48
3:DP:53:PHE:HB3	3:DP:60:PRO:HB2	1.95	0.48
3:DM:53:PHE:HB3	3:DM:60:PRO:HB2	1.96	0.48
3:DT:53:PHE:HB3	3:DT:60:PRO:CB	2.44	0.48
2:CW:200:SER:HA	3:ED:61:TYR:CE2	257.17	0.48
3:DK:53:PHE:HB3	3:DK:60:PRO:CB	2.44	0.48
3:DZ:53:PHE:HB3	3:DZ:60:PRO:HB2	1.96	0.48
3:DZ:53:PHE:HB3	3:DZ:60:PRO:CB	2.44	0.48
2:CI:167:THR:O	2:CI:168:ASN:HB3	2.13	0.48
3:DO:53:PHE:HB3	3:DO:60:PRO:CB	2.44	0.48
3:D8:53:PHE:HB3	3:D8:60:PRO:HB2	1.96	0.48
3:EB:56:ILE:CD1	3:EB:206:VAL:HG11	2.43	0.48
3:DR:75:GLN:HA	3:DR:183:LEU:O	2.14	0.48
2:C1:195:VAL:C	2:C1:196:ILE:HG13	2.33	0.48
3:D1:56:ILE:CD1	3:D1:206:VAL:HG11	2.43	0.48
2:CH:83:LEU:HA	2:CH:84:PRO:HA	1.60	0.48
2:CJ:195:VAL:C	2:CJ:196:ILE:HG13	2.33	0.48
3:D9:56:ILE:CD1	3:D9:206:VAL:HG11	2.43	0.48
2:CU:134:HIS:HB3	2:CU:135:THR:H	1.47	0.48
1:AN:43:LEU:CD2	1:AN:43:LEU:N	2.74	0.48
1:AF:110:GLY:H	1:AG:242:ASN:ND2	2.12	0.48
2:C1:223:ASN:ND2	2:C1:223:ASN:N	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D5:70:ASP:HA	3:D5:135:ARG:HH12	1.79	0.48
3:DR:110:PHE:HB3	3:DR:148:VAL:HG11	1.96	0.48
1:AA:224:ILE:HD11	3:DA:89:TYR:CZ	2.49	0.48
1:AF:224:ILE:HD11	3:DH:89:TYR:CZ	83.15	0.48
1:AH:224:ILE:HD11	3:DH:89:TYR:CZ	2.49	0.48
1:AL:224:ILE:HD11	3:DL:89:TYR:CZ	2.49	0.48
1:A3:224:ILE:HD11	3:D4:89:TYR:CZ	2.49	0.48
1:BF:224:ILE:HD11	3:EB:89:TYR:CZ	2.49	0.48
2:CT:176:PRO:HD2	2:CT:192:TRP:CZ2	2.49	0.48
2:CI:176:PRO:HD2	2:CI:192:TRP:CZ2	2.49	0.48
3:ED:73:LEU:HB3	3:ED:185:VAL:O	2.14	0.48
3:DB:73:LEU:HB3	3:DB:185:VAL:O	2.14	0.48
3:DU:73:LEU:HB3	3:DU:185:VAL:O	2.14	0.48
1:AB:237:HIS:O	3:DB:171:SER:HB2	2.13	0.48
1:AO:237:HIS:O	3:DS:171:SER:HB2	162.48	0.48
1:AI:237:HIS:HB2	3:DK:81:SER:O	270.28	0.48
1:AC:89:LYS:HG2	1:AG:128:VAL:HG11	191.26	0.48
1:AK:89:LYS:HG2	1:AO:128:VAL:HG11	1.96	0.48
1:BI:237:HIS:HB2	3:EE:81:SER:O	2.14	0.48
1:AY:237:HIS:HB2	3:DZ:81:SER:O	2.14	0.48
1:AP:89:LYS:HG2	1:AS:128:VAL:HG11	1.96	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:AD:4:VAL:HG22	3:DF:151:ASN:O	96.46	0.48
1:AI:4:VAL:HG22	3:DK:151:ASN:O	234.06	0.48
1:AO:4:VAL:HG22	3:DO:151:ASN:O	2.14	0.48
1:AR:4:VAL:HG22	3:DR:151:ASN:O	2.14	0.48
2:CH:42:ARG:HA	2:CH:43:PRO:HD2	1.64	0.48
1:BE:4:VAL:HG22	3:EA:151:ASN:O	2.14	0.48
1:AQ:150:ARG:HE	1:AQ:150:ARG:H	1.60	0.48
1:AQ:4:VAL:HG22	3:DQ:151:ASN:O	2.14	0.48
2:CW:115:ASN:HB2	3:DS:189:THR:HG22	247.81	0.47
2:CT:115:ASN:CA	3:DK:119:LYS:HZ3	2.27	0.47
2:CP:115:ASN:HB2	3:D1:189:THR:HG22	1.96	0.47
2:C4:115:ASN:CA	3:EC:119:LYS:HZ3	2.26	0.47
1:AJ:17:HIS:O	2:CI:48:SER:HA	2.14	0.47
3:DH:101:ARG:HA	3:DH:160:TYR:CE2	2.48	0.47
3:DJ:101:ARG:HD2	3:DJ:165:ASP:O	2.14	0.47
3:DK:157:ASN:O	3:DK:159:PRO:HD3	2.14	0.47
3:DK:101:ARG:HD2	3:DK:165:ASP:O	2.14	0.47
2:CR:46:THR:CG2	3:DS:165:ASP:HA	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:157:ASN:O	3:DT:159:PRO:HD3	2.14	0.47
3:DT:101:ARG:HD2	3:DT:165:ASP:O	2.14	0.47
3:EB:157:ASN:O	3:EB:159:PRO:HD3	2.14	0.47
3:D5:103:SER:HB2	3:D5:159:PRO:HA	1.95	0.47
3:D5:101:ARG:HD2	3:D5:165:ASP:O	2.14	0.47
1:BB:17:HIS:O	2:CP:48:SER:HA	88.67	0.47
3:DQ:103:SER:HB2	3:DQ:159:PRO:HA	1.95	0.47
1:AU:17:HIS:O	2:CU:48:SER:HA	2.14	0.47
3:EC:103:SER:HB3	3:EC:159:PRO:CA	2.35	0.47
3:EC:101:ARG:HD2	3:EC:165:ASP:O	2.14	0.47
3:DX:101:ARG:HA	3:DX:160:TYR:CE2	2.48	0.47
2:C3:46:THR:CG2	3:DZ:165:ASP:HA	2.38	0.47
3:DY:157:ASN:O	3:DY:159:PRO:HD3	2.14	0.47
3:ED:101:ARG:HD2	3:ED:165:ASP:O	2.14	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: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:AG:101:PHE:O	1:AG:199:SER:CB	2.62	0.47
1:AG:105:LYS:HE3	1:AG:139:SER:OG	2.13	0.47
1:AG:120:GLN:HB2	1:AG:129:ARG:HD3	1.96	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	258.55	0.47
1:AK:149:SER:C	1:AK:151:SER:H	2.18	0.47
1:AK:156:PHE:CG	3:DM:25:LEU:HD12	38.87	0.47
1:AL:101:PHE:CD2	1:AL:143:VAL:HG11	2.44	0.47
1:AL:101:PHE:O	1:AL:199:SER:CB	2.62	0.47
1:AN:120:GLN:HB2	1:AN:129:ARG:HD3	1.96	0.47
1:AQ:101:PHE:O	1:AQ:199:SER:CB	2.62	0.47
1:AR:105:LYS:HE3	1:AR:139:SER:OG	2.13	0.47
1:AW:101:PHE:O	1:AW:199:SER:CB	2.62	0.47
3:DF:25:LEU:HD21	3:DG:15:MET:CG	2.44	0.47
1:BB:156:PHE:CG	3:DQ:25:LEU:HD12	135.97	0.47
3:D7:44:ILE:HG23	3:D7:45:ASP:N	2.30	0.47
3:DJ:44:ILE:HG23	3:DJ:45:ASP:N	2.29	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
3:DQ:44:ILE:HG23	3:DQ:45:ASP:N	2.29	0.47
3:EC:44:ILE:HG23	3:EC:45:ASP:N	2.29	0.47
1:A3:120:GLN:HB2	1:A3:129:ARG:HD3	1.96	0.47
1:A0:38:PHE:CD1	1:AZ:137:GLY:HA2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:105:LYS:HE3	1:AY:139:SER:OG	2.13	0.47
1:AY:37:PHE:CD1	1:AY:212:ARG:HB2	2.49	0.47
3:D6:25:LEU:HD21	3:D7:15:MET:CG	2.44	0.47
1:AV:187:LEU:HD12	1:AV:190:ALA:HB2	1.94	0.47
1:AE:103:TRP:HB2	1:AE:198:THR:HG23	1.96	0.47
1:AX:113:THR:O	1:AX:133:LEU:HD12	2.14	0.47
1:AQ:113:THR:O	1:AQ:133:LEU:HD12	2.14	0.47
1:AU:113:THR:O	1:AU:133:LEU:HD12	2.14	0.47
2:CU:152:TYR:CD1	2:CU:152:TYR:C	2.88	0.47
2:CU:200:SER:HA	3:EB:61:TYR:CE2	257.23	0.47
3:EB:53:PHE:HB3	3:EB:60:PRO:HB2	1.96	0.47
2:CP:167:THR:O	2:CP:168:ASN:HB3	2.13	0.47
3:DG:53:PHE:HB3	3:DG:60:PRO:HB2	1.96	0.47
2:C5:167:THR:O	2:C5:168:ASN:HB3	2.13	0.47
3:DK:53:PHE:HB3	3:DK:60:PRO:HB2	1.96	0.47
3:D4:53:PHE:HB3	3:D4:60:PRO:CB	2.44	0.47
2:CD:152:TYR:C	2:CD:152:TYR:CD1	2.88	0.47
2:CU:167:THR:O	2:CU:168:ASN:HB3	2.13	0.47
2:CY:84:PRO:HD2	2:CY:186:LEU:HD22	1.94	0.47
2:CF:180:PRO:HD2	2:CF:189:HIS:HE1	1.77	0.47
2:CV:83:LEU:HA	2:CV:84:PRO:HA	1.60	0.47
3:DG:75:GLN:HA	3:DG:183:LEU:O	2.14	0.47
1:AX:160:TYR:CE1	1:AX:167:VAL:HG23	2.48	0.47
3:D5:75:GLN:HA	3:D5:183:LEU:O	2.14	0.47
2:CT:195:VAL:C	2:CT:196:ILE:HG13	2.33	0.47
2:CY:195:VAL:C	2:CY:196:ILE:HG13	2.33	0.47
3:DS:75:GLN:HA	3:DS:183:LEU:O	2.14	0.47
1:A3:239:PHE:CD1	3:D4:170:TYR:CD2	2.96	0.47
3:DC:70:ASP:HA	3:DC:135:ARG:HH12	1.79	0.47
3:EC:70:ASP:HA	3:EC:135:ARG:HH12	1.79	0.47
2:CE:32:THR:HG23	2:CE:172:HIS:ND1	2.29	0.47
3:DO:110:PHE:HB3	3:DO:148:VAL:HG11	1.96	0.47
3:DF:110:PHE:HB3	3:DF:148:VAL:HG11	1.96	0.47
3:DT:110:PHE:HB3	3:DT:148:VAL:HG11	1.96	0.47
3:D8:110:PHE:HB3	3:D8:148:VAL:HG11	1.96	0.47
3:DQ:110:PHE:HB3	3:DQ:148:VAL:HG11	1.96	0.47
2:CD:32:THR:HG23	2:CD:172:HIS:ND1	2.29	0.47
3:DM:110:PHE:HB3	3:DM:148:VAL:HG11	1.96	0.47
1:AM:224:ILE:HD11	3:DM:89:TYR:CZ	2.49	0.47
1:BI:224:ILE:HD11	3:EE:89:TYR:CZ	2.49	0.47
1:A7:224:ILE:HD11	3:D8:89:TYR:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:224:ILE:HD11	3:DZ:89:TYR:CZ	2.49	0.47
2:CR:176:PRO:HD2	2:CR:192:TRP:CZ2	2.49	0.47
2:CF:176:PRO:HD2	2:CF:192:TRP:CZ2	2.49	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:DA:73:LEU:HB3	3:DA:185:VAL:O	2.14	0.47
3:D4:73:LEU:HB3	3:D4:185:VAL:O	2.14	0.47
3:DT:73:LEU:HB3	3:DT:185:VAL:O	2.14	0.47
3:EC:73:LEU:HB3	3:EC:185:VAL:O	2.14	0.47
1:AJ:237:HIS:O	3:DJ:171:SER:HB2	2.13	0.47
1:AN:237:HIS:HB2	3:DN:81:SER:O	2.14	0.47
1:AC:237:HIS:HB2	3:DC:81:SER:O	2.14	0.47
1:AI:237:HIS:O	3:DK:171:SER:HB2	269.41	0.47
1:AO:237:HIS:HB2	3:DS:81:SER:O	159.62	0.47
1:AM:237:HIS:HB2	3:DO:81:SER:O	94.68	0.47
1:A8:89:LYS:HG2	1:AB:128:VAL:HG11	236.32	0.47
1:AH:89:LYS:HG2	1:AL:128:VAL:HG11	297.76	0.47
1:AM:89:LYS:HG2	1:BD:128:VAL:HG11	257.93	0.47
1:AU:128:VAL:HG11	1:AV:89:LYS:HG2	1.96	0.47
1:AM:128:VAL:HG11	1:BA:89:LYS:HG2	236.32	0.47
1:AV:237:HIS:O	3:DW:171:SER:HB2	2.13	0.47
1:AF:128:VAL:HG11	1:AG:89:LYS:HG2	1.96	0.47
1:AC:4:VAL:HG22	3:DE:151:ASN:O	124.23	0.47
3:DC:130:ALA:O	3:DC:131:ALA:HB3	2.13	0.47
1:AS:4:VAL:HG22	3:DT:151:ASN:O	2.14	0.47
3:DR:36:VAL:HA	3:DR:37:PRO:HD3	1.53	0.47
2:CJ:42:ARG:HA	2:CJ:43:PRO:HD2	1.65	0.47
1:AU:4:VAL:HG22	3:DV:151:ASN:O	2.14	0.47
3:D4:130:ALA:O	3:D4:131:ALA:HB3	2.13	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
2:CR:115:ASN:HB2	3:EE:189:THR:HG22	1.96	0.47
2:CT:115:ASN:HB2	3:DH:189:THR:HG22	226.48	0.47
2:C3:110:VAL:CG1	2:C3:215:VAL:HA	2.43	0.47
2:C3:115:ASN:CA	3:DU:119:LYS:HZ3	2.27	0.47
2:CF:115:ASN:HB2	3:DV:189:THR:HG22	185.94	0.47
1:AJ:17:HIS:O	2:CK:48:SER:HA	235.56	0.47
2:CD:46:THR:CG2	3:D9:165:ASP:HA	158.94	0.47
3:DG:101:ARG:HD2	3:DG:165:ASP:O	2.14	0.47
3:DL:101:ARG:HD2	3:DL:165:ASP:O	2.14	0.47
3:DM:157:ASN:O	3:DM:159:PRO:HD3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DM:101:ARG:HD2	3:DM:165:ASP:O	2.14	0.47
1:A4:17:HIS:O	2:C4:48:SER:HA	2.14	0.47
3:DQ:101:ARG:HD2	3:DQ:165:ASP:O	2.14	0.47
1:BG:17:HIS:O	2:CU:48:SER:HA	224.13	0.47
1:BI:17:HIS:O	2:CW:48:SER:HA	182.12	0.47
3:EE:157:ASN:O	3:EE:159:PRO:HD3	2.14	0.47
3:EA:157:ASN:O	3:EA:159:PRO:HD3	2.14	0.47
1:A9:101:PHE:O	1:A9:199:SER:CB	2.62	0.47
1:A9:82:LEU:HD23	1:A9:84:LEU:HD11	1.94	0.47
1:AA:149:SER:C	1:AA:151:SER:H	2.18	0.47
1:AC:149:SER:C	1:AC:151:SER:H	2.18	0.47
1:AE:149:SER:C	1:AE:151:SER:H	2.18	0.47
1:AH:149:SER:C	1:AH:151:SER:H	2.18	0.47
1:AI:149:SER:C	1:AI:151:SER:H	2.18	0.47
1:AM:105:LYS:HE3	1:AM:139:SER:OG	2.14	0.47
1:AM:149:SER:C	1:AM:151:SER:H	2.18	0.47
1:AN:37:PHE:CD1	1:AN:212:ARG:HB2	2.49	0.47
1:AO:149:SER:C	1:AO:151:SER:H	2.18	0.47
1:AP:120:GLN:HB2	1:AP:129:ARG:HD3	1.96	0.47
1:AS:149:SER:C	1:AS:151:SER:H	2.18	0.47
1:AS:101:PHE:O	1:AS:199:SER:CB	2.62	0.47
1:AX:101:PHE:O	1:AX:199:SER:CB	2.62	0.47
1:BA:156:PHE:CG	3:DP:25:LEU:HD12	123.53	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:BF:149:SER:C	1:BF:151:SER:H	2.18	0.47
1:BI:101:PHE:O	1:BI:199:SER:CB	2.62	0.47
3:D9:25:LEU:HD21	3:DA:15:MET:CG	220.67	0.47
3:DH:25:LEU:HD21	3:DI:15:MET:CG	2.45	0.47
3:DJ:25:LEU:HD21	3:DK:15:MET:CG	259.05	0.47
3:DL:25:LEU:HD21	3:DM:15:MET:CG	2.45	0.47
3:DD:44:ILE:HG23	3:DD:45:ASP:N	2.29	0.47
3:DS:44:ILE:HG23	3:DS:45:ASP:N	2.30	0.47
3:DR:44:ILE:HG23	3:DR:45:ASP:N	2.29	0.47
3:DB:44:ILE:HG23	3:DB:45:ASP:N	2.29	0.47
3:EB:44:ILE:HG23	3:EB:45:ASP:N	2.30	0.47
3:DE:44:ILE:HG23	3:DE:45:ASP:N	2.29	0.47
1:BG:121:LEU:HD23	1:BH:42:THR:OG1	2.13	0.47
1:A5:149:SER:C	1:A5:151:SER:H	2.18	0.47
1:A0:101:PHE:O	1:A0:199:SER:CB	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:AY:120:GLN:HB2	1:AY:129:ARG:HD3	1.96	0.47
4:F0:30:TYR:CD1	4:F0:30:TYR:N	2.81	0.47
1:A6:187:LEU:HD22	1:A6:188:PRO:N	2.30	0.47
1:A6:149:SER:C	1:A6:151:SER:H	2.18	0.47
4:F7:30:TYR:CD1	4:F7:30:TYR:N	2.81	0.47
2:CG:134:HIS:HB3	2:CG:135:THR:H	1.46	0.47
1:AX:103:TRP:HB2	1:AX:198:THR:HG23	1.96	0.47
1:A4:113:THR:O	1:A4:133:LEU:HD12	2.14	0.47
2:CO:226:LEU:CD2	3:DK:126:PRO:HG2	2.36	0.47
2:CA:226:LEU:CD2	3:DB:126:PRO:HG2	2.36	0.47
2:CQ:152:TYR:CD1	2:CQ:152:TYR:C	2.88	0.47
2:CY:152:TYR:CD1	2:CY:152:TYR:C	2.88	0.47
3:DU:53:PHE:HB3	3:DU:60:PRO:CB	2.44	0.47
2:CJ:152:TYR:C	2:CJ:152:TYR:CD1	2.88	0.47
2:CC:13:ARG:HD3	2:CC:13:ARG:HA	1.72	0.47
2:CV:226:LEU:CD2	3:DW:126:PRO:HG2	2.36	0.47
2:CZ:152:TYR:CD1	2:CZ:152:TYR:C	2.88	0.47
2:CN:13:ARG:HD3	2:CN:13:ARG:HA	1.72	0.47
2:CA:167:THR:O	2:CA:168:ASN:HB3	2.14	0.47
3:D1:53:PHE:HB3	3:D1:60:PRO:CB	2.44	0.47
2:CO:152:TYR:CD1	2:CO:152:TYR:C	2.88	0.47
3:D2:53:PHE:HB3	3:D2:60:PRO:CB	2.44	0.47
2:CT:84:PRO:HD3	2:CT:108:TRP:CZ2	2.49	0.47
2:CC:83:LEU:HA	2:CC:84:PRO:HA	1.60	0.47
1:BE:160:TYR:CE1	1:BE:167:VAL:HG23	2.48	0.47
2:CB:84:PRO:HD3	2:CB:108:TRP:CZ2	2.49	0.47
3:DA:75:GLN:HA	3:DA:183:LEU:O	2.14	0.47
3:D1:75:GLN:HA	3:D1:183:LEU:O	2.14	0.47
3:DX:75:GLN:HA	3:DX:183:LEU:O	2.14	0.47
3:DI:75:GLN:HA	3:DI:183:LEU:O	2.14	0.47
1:AG:239:PHE:CD1	3:DI:170:TYR:CD2	81.72	0.47
1:AI:239:PHE:CD1	3:DK:170:TYR:CD2	269.83	0.47
3:DF:70:ASP:HA	3:DF:135:ARG:HH12	1.79	0.47
1:BE:110:GLY:H	1:BF:242:ASN:ND2	2.12	0.47
3:DV:110:PHE:HB3	3:DV:148:VAL:HG11	1.96	0.47
3:DC:110:PHE:HB3	3:DC:148:VAL:HG11	1.96	0.47
1:AK:224:ILE:HD11	3:DK:89:TYR:CZ	2.49	0.47
1:AJ:224:ILE:HD11	3:DJ:89:TYR:CZ	2.49	0.47
1:AZ:224:ILE:HD11	3:D0:89:TYR:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:224:ILE:HD11	3:DW:89:TYR:CZ	2.49	0.47
2:CX:176:PRO:HD2	2:CX:192:TRP:CZ2	2.49	0.47
2:CC:176:PRO:HD2	2:CC:192:TRP:CZ2	2.49	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
1:AD:237:HIS:O	3:DD:171:SER:HB2	2.13	0.47
1:AO:237:HIS:HB2	3:DO:81:SER:O	2.14	0.47
1:AY:128:VAL:HG11	1:AZ:89:LYS:HG2	1.96	0.47
1:AJ:128:VAL:HG11	1:AK:89:LYS:HG2	296.48	0.47
1:BH:128:VAL:HG11	1:BI:89:LYS:HG2	1.96	0.47
1:A3:237:HIS:HB2	3:D4:81:SER:O	2.14	0.47
1:AG:4:VAL:HG22	3:DI:151:ASN:O	124.23	0.47
1:AK:4:VAL:HG22	3:DK:151:ASN:O	2.14	0.47
1:BA:4:VAL:HG22	3:DP:151:ASN:O	98.36	0.47
1:BA:27:HIS:O	1:BA:33:LEU:HD21	2.13	0.47
3:EB:36:VAL:HA	3:EB:37:PRO:HD3	1.53	0.47
1:A4:4:VAL:HG22	3:D5:151:ASN:O	2.14	0.47
2:C8:110:VAL:CG1	2:C8:215:VAL:HA	2.43	0.47
2:CI:115:ASN:HB2	3:DJ:189:THR:HG22	62.03	0.47
2:CI:115:ASN:HB2	3:DX:189:THR:HG22	1.96	0.47
2:CJ:115:ASN:HD22	3:DA:190:ALA:C	2.17	0.47
2:C5:115:ASN:HB2	3:DG:189:THR:HG22	1.96	0.47
2:CQ:115:ASN:CA	3:DP:119:LYS:HZ3	110.28	0.47
2:C3:115:ASN:HB2	3:DU:189:THR:HG22	1.96	0.47
2:CB:115:ASN:CA	3:DF:119:LYS:HZ3	145.44	0.47
1:AS:17:HIS:O	2:CS:48:SER:HA	2.14	0.47
1:A8:17:HIS:O	2:CD:48:SER:HA	143.47	0.47
1:AF:17:HIS:O	2:CG:48:SER:HA	92.70	0.47
1:AM:17:HIS:O	2:CL:48:SER:HA	2.14	0.47
3:DD:157:ASN:O	3:DD:159:PRO:HD3	2.14	0.47
2:CE:46:THR:CG2	3:DF:165:ASP:HA	48.60	0.47
3:DN:157:ASN:O	3:DN:159:PRO:HD3	2.14	0.47
3:DN:101:ARG:HD2	3:DN:165:ASP:O	2.14	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: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:DQ:157:ASN:O	3:DQ:159:PRO:HD3	2.14	0.47
3:EC:157:ASN:O	3:EC:159:PRO:HD3	2.14	0.47
3:EE:101:ARG:HA	3:EE:160:TYR:CE2	2.48	0.47
3:DW:157:ASN:O	3:DW:159:PRO:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D1:101:ARG:HD2	3:D1:165:ASP:O	2.14	0.47
1:A6:17:HIS:O	2:C6:48:SER:HA	2.15	0.47
3:D8:103:SER:HB3	3:D8:159:PRO:CA	2.35	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
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:A8:38:PHE:CD1	1:AB:137:GLY:HA2	204.00	0.47
1:AD:156:PHE:CG	3:DF:25:LEU:HD12	127.47	0.47
1:AF:149:SER:C	1:AF:151:SER:H	2.18	0.47
1:AG:149:SER:C	1:AG:151:SER:H	2.18	0.47
1:AG:156:PHE:CG	3:DG:25:LEU:HD12	2.49	0.47
1:AO:120:GLN:HB2	1:AO:129:ARG:HD3	1.96	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:AW:37:PHE:CD1	1:AW:212:ARG:HB2	2.49	0.47
1:AX:120:GLN:HB2	1:AX:129:ARG:HD3	1.97	0.47
1:BA:101:PHE:O	1:BA:199:SER:CB	2.62	0.47
1:BA:149:SER:C	1:BA:151:SER:H	2.18	0.47
1:BB:120:GLN:HB2	1:BB:129:ARG:HD3	1.96	0.47
1:BC:149:SER:C	1:BC:151:SER:H	2.18	0.47
1:BC:37:PHE:CD1	1:BC:212:ARG:HB2	2.49	0.47
1:BD:149:SER:C	1:BD:151:SER:H	2.18	0.47
1:BE:37:PHE:CD1	1:BE:212:ARG:HB2	2.49	0.47
3:DA:25:LEU:HD21	3:DB:15:MET:CG	2.44	0.47
3:DB:25:LEU:HD21	3:DC:15:MET:CG	2.45	0.47
1:AI:156:PHE:CG	3:DK:25:LEU:HD12	261.50	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:EA:25:LEU:HD21	3:EB:15:MET:CG	2.45	0.47
3:EE:44:ILE:HG23	3:EE:45:ASP:N	2.29	0.47
3:DY:44:ILE:HG23	3:DY:45:ASP:N	2.29	0.47
3:DV:44:ILE:HG23	3:DV:45:ASP:N	2.29	0.47
3:D0:44:ILE:HG23	3:D0:45:ASP:N	2.29	0.47
3:D3:44:ILE:HG23	3:D3:45:ASP:N	2.29	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:A4:156:PHE:CG	3:D5:25:LEU:HD12	2.49	0.47
1:A4:101:PHE:O	1:A4:199:SER:CB	2.62	0.47
1:A1:156:PHE:CG	3:D2:25:LEU:HD12	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:149:SER:C	1:AZ:151:SER:H	2.18	0.47
1:A2:156:PHE:CG	3:D3:25:LEU:HD12	2.49	0.47
1:AY:156:PHE:CG	3:DZ:25:LEU:HD12	2.49	0.47
1:AP:187:LEU:HD22	1:AP:188:PRO:N	2.30	0.47
1:BE:187:LEU:HD22	1:BE:188:PRO:N	2.30	0.47
2:CB:134:HIS:HB3	2:CB:135:THR:H	1.46	0.47
2:CJ:134:HIS:HB3	2:CJ:135:THR:H	1.47	0.47
1:AO:113:THR:O	1:AO:133:LEU:HD12	2.14	0.47
1:AA:103:TRP:HB2	1:AA:198:THR:HG23	1.96	0.47
1:AM:103:TRP:HB2	1:AM:198:THR:HG23	1.96	0.47
1:AF:113:THR:O	1:AF:133:LEU:HD12	2.14	0.47
1:AH:103:TRP:HB2	1:AH:198:THR:HG23	1.96	0.47
2:CH:152:TYR:CD1	2:CH:152:TYR:C	2.88	0.47
3:EC:53:PHE:HB3	3:EC:60:PRO:HB2	1.96	0.47
3:EB:53:PHE:HB3	3:EB:60:PRO:CB	2.44	0.47
2:CD:167:THR:O	2:CD:168:ASN:HB3	2.13	0.47
3:DX:53:PHE:HB3	3:DX:60:PRO:HB2	1.96	0.47
2:CR:152:TYR:CD1	2:CR:152:TYR:C	2.88	0.47
3:D5:53:PHE:HB3	3:D5:60:PRO:HB2	1.96	0.47
2:C5:200:SER:HA	3:D5:61:TYR:CE2	2.48	0.47
2:CK:167:THR:O	2:CK:168:ASN:HB3	2.13	0.47
3:DS:53:PHE:HB3	3:DS:60:PRO:CB	2.44	0.47
1:AF:170:PHE:CD2	1:AF:222:ARG:CZ	2.87	0.47
1:AW:170:PHE:CD2	1:AW:222:ARG:CZ	2.87	0.47
2:C6:152:TYR:CD1	2:C6:152:TYR:C	2.88	0.47
1:BA:170:PHE:CD2	1:BA:222:ARG:CZ	2.87	0.47
2:CY:167:THR:O	2:CY:168:ASN:HB3	2.13	0.47
2:CF:83:LEU:HA	2:CF:84:PRO:HA	1.59	0.47
2:CP:84:PRO:HG3	2:CP:108:TRP:CH2	2.50	0.47
2:CN:83:LEU:HA	2:CN:84:PRO:HA	1.60	0.47
2:C2:84:PRO:HG3	2:C2:108:TRP:CH2	2.50	0.47
2:CS:83:LEU:HA	2:CS:84:PRO:HA	1.60	0.47
2:C4:83:LEU:HA	2:C4:84:PRO:HA	1.60	0.47
3:D2:75:GLN:HA	3:D2:183:LEU:O	2.14	0.47
2:C6:195:VAL:C	2:C6:196:ILE:HG13	2.33	0.47
2:C7:195:VAL:C	2:C7:196:ILE:HG13	2.33	0.47
3:D7:75:GLN:HA	3:D7:183:LEU:O	2.14	0.47
2:C3:84:PRO:HD3	2:C3:108:TRP:CZ2	2.49	0.47
3:DW:75:GLN:HA	3:DW:183:LEU:O	2.14	0.47
1:AY:86:ILE:HD12	1:AY:86:ILE:H	1.72	0.47
3:DL:75:GLN:HA	3:DL:183:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:105:LYS:HE3	1:BF:139:SER:OG	2.13	0.47
3:DI:70:ASP:HA	3:DI:135:ARG:HH12	1.79	0.47
3:DR:70:ASP:HA	3:DR:135:ARG:HH12	1.79	0.47
3:DG:70:ASP:HA	3:DG:135:ARG:HH12	1.79	0.47
3:EB:110:PHE:HB3	3:EB:148:VAL:HG11	1.96	0.47
2:C9:32:THR:HG23	2:C9:172:HIS:ND1	2.29	0.47
3:DZ:70:ASP:HA	3:DZ:135:ARG:HH12	1.79	0.47
3:DB:110:PHE:HB3	3:DB:148:VAL:HG11	1.96	0.47
2:C6:32:THR:HG23	2:C6:172:HIS:ND1	2.29	0.47
1:AF:224:ILE:HD11	3:DF:89:TYR:CZ	2.49	0.47
1:AP:224:ILE:HD11	3:DP:89:TYR:CZ	2.49	0.47
1:BH:224:ILE:HD11	3:ED:89:TYR:CZ	2.49	0.47
3:DE:80:LEU:HD12	3:DE:80:LEU:H	1.78	0.47
3:D2:80:LEU:H	3:D2:80:LEU:HD12	1.77	0.47
2:CP:176:PRO:HD2	2:CP:192:TRP:CZ2	2.49	0.47
2:C7:176:PRO:HD2	2:C7:192:TRP:CZ2	2.49	0.47
3:DE:73:LEU:HB3	3:DE:185:VAL:O	2.14	0.47
1:AH:237:HIS:HB2	3:DJ:81:SER:O	94.68	0.47
1:BD:237:HIS:O	3:DS:171:SER:HB2	163.44	0.47
1:AK:237:HIS:HB2	3:DM:81:SER:O	94.68	0.47
1:A8:128:VAL:HG11	1:A9:89:LYS:HG2	1.96	0.47
1:AP:237:HIS:O	3:DP:171:SER:HB2	2.13	0.47
1:AU:237:HIS:HB2	3:DV:81:SER:O	2.14	0.47
1:BB:128:VAL:HG11	1:BC:89:LYS:HG2	1.96	0.47
1:BA:128:VAL:HG11	1:BB:89:LYS:HG2	1.96	0.47
1:AF:4:VAL:HG22	3:DH:151:ASN:O	124.23	0.47
1:AN:4:VAL:HG22	3:DN:151:ASN:O	2.14	0.47
1:BB:4:VAL:HG22	3:DQ:151:ASN:O	91.85	0.47
3:DC:36:VAL:HA	3:DC:37:PRO:HD3	1.53	0.47
1:BI:4:VAL:HG22	3:EE:151:ASN:O	2.14	0.47
2:CS:42:ARG:HA	2:CS:43:PRO:HD2	1.64	0.47
3:DS:84:GLU:OE1	3:DS:84:GLU:N	2.48	0.47
1:A2:150:ARG:HE	1:A2:150:ARG:H	1.60	0.47
1:BH:27:HIS:O	1:BH:33:LEU:HD21	2.13	0.47
2:CJ:115:ASN:CA	3:DA:119:LYS:HZ3	2.26	0.47
2:CV:115:ASN:HB2	3:DB:189:THR:HG22	1.96	0.47
2:CL:115:ASN:HB2	3:D8:189:THR:HG22	114.90	0.47
2:CO:212:THR:HG23	3:DR:188:LEU:HD22	143.39	0.47
2:CG:115:ASN:HB2	3:D3:189:THR:HG22	259.95	0.47
2:CZ:115:ASN:HB2	3:DQ:189:THR:HG22	90.17	0.47
2:CA:115:ASN:HB2	3:DW:189:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CN:115:ASN:HB2	3:D2:189:THR:HG22	1.96	0.47
2:CF:115:ASN:HD22	3:D6:190:ALA:C	2.17	0.47
1:AK:17:HIS:O	2:CL:48:SER:HA	92.69	0.47
2:CI:49:ASP:HA	2:CI:50:PRO:HD2	1.80	0.47
1:AM:17:HIS:O	2:CS:48:SER:HA	137.15	0.47
3:D9:103:SER:HB2	3:D9:159:PRO:HA	1.95	0.47
3:DG:157:ASN:O	3:DG:159:PRO:HD3	2.14	0.47
3:DI:157:ASN:O	3:DI:159:PRO:HD3	2.14	0.47
3:DL:160:TYR:HD1	3:DL:161:SER:N	2.13	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:DP:101:ARG:HD2	3:DP:165:ASP:O	2.14	0.47
1:AW:17:HIS:O	2:CW:48:SER:HA	2.15	0.47
3:D4:103:SER:HB2	3:D4:159:PRO:HA	1.95	0.47
1:AX:17:HIS:O	2:CX:48:SER:HA	2.15	0.47
1:BE:17:HIS:O	2:CX:48:SER:HA	143.47	0.47
1:AT:17:HIS:O	2:CY:48:SER:HA	2.14	0.47
3:DU:103:SER:HB2	3:DU:159:PRO:HA	1.95	0.47
1:BH:17:HIS:O	2:CV:48:SER:HA	221.97	0.47
1:BC:17:HIS:O	2:CQ:48:SER:HA	123.69	0.47
3:D7:101:ARG:HD2	3:D7:165:ASP:O	2.14	0.47
1:A9:105:LYS:HE3	1:A9:139:SER:OG	2.13	0.47
1:AB:149:SER:C	1:AB:151:SER:H	2.18	0.47
1:AD:120:GLN:HB2	1:AD:129:ARG:HD3	1.96	0.47
1:AF:120:GLN:HB2	1:AF:129:ARG:HD3	1.96	0.47
1:AL:120:GLN:HB2	1:AL:129:ARG:HD3	1.96	0.47
1:AM:101:PHE:CD2	1:AM:143:VAL:HG11	2.44	0.47
1:AN:149:SER:C	1:AN:151:SER:H	2.18	0.47
1:BA:120:GLN:HB2	1:BA:129:ARG:HD3	1.96	0.47
1:BH:137:GLY:HA2	1:BI:38:PHE:CD1	2.49	0.47
1:BE:38:PHE:CD1	1:BI:137:GLY:HA2	2.49	0.47
3:DD:25:LEU:HD21	3:DE:15:MET:CG	2.44	0.47
3:DA:15:MET:CG	3:DE:25:LEU:HD21	2.45	0.47
3:DI:25:LEU:HD21	3:DJ:15:MET:CG	2.45	0.47
3:DX:25:LEU:HD21	3:DY:15:MET:CG	2.45	0.47
4:FP:30:TYR:CD1	4:FP:30:TYR:N	2.81	0.47
3:DG:44:ILE:HG23	3:DG:45:ASP:N	2.29	0.47
3:DN:44:ILE:HG23	3:DN:45:ASP:N	2.30	0.47
1:A6:101:PHE:CD2	1:A6:143:VAL:HG11	2.44	0.47
3:D2:44:ILE:HG23	3:D2:45:ASP:N	2.29	0.47
3:D1:44:ILE:HG23	3:D1:45:ASP:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:101:PHE:O	1:AU:199:SER:CB	2.62	0.47
1:AV:149:SER:C	1:AV:151:SER:H	2.18	0.47
1:A4:120:GLN:HB2	1:A4:129:ARG:HD3	1.96	0.47
4:F6:30:TYR:N	4:F6:30:TYR:CD1	2.81	0.47
1:AY:101:PHE:CD2	1:AY:143:VAL:HG11	2.44	0.47
1:AF:187:LEU:HD22	1:AF:188:PRO:N	2.30	0.47
1:AW:187:LEU:HD22	1:AW:188:PRO:N	2.30	0.47
2:CC:134:HIS:HB3	2:CC:135:THR:H	1.46	0.47
2:CE:134:HIS:HB3	2:CE:135:THR:H	1.46	0.47
1:AB:103:TRP:HB2	1:AB:198:THR:HG23	1.96	0.47
1:AI:103:TRP:HB2	1:AI:198:THR:HG23	1.96	0.47
1:AK:103:TRP:HB2	1:AK:198:THR:HG23	1.96	0.47
3:DY:53:PHE:HB3	3:DY:60:PRO:HB2	1.96	0.47
3:DI:53:PHE:HB3	3:DI:60:PRO:HB2	1.96	0.47
2:C6:167:THR:O	2:C6:168:ASN:HB3	2.13	0.47
3:DW:53:PHE:HB3	3:DW:60:PRO:HB2	1.96	0.47
2:CA:13:ARG:HA	2:CA:13:ARG:HD3	1.72	0.47
2:C7:76:GLY:HA2	2:C7:197:LEU:HD21	1.97	0.47
2:CL:167:THR:O	2:CL:168:ASN:HB3	2.13	0.47
3:DD:53:PHE:HB3	3:DD:60:PRO:HB2	1.96	0.47
3:D2:53:PHE:HB3	3:D2:60:PRO:HB2	1.96	0.47
2:CD:84:PRO:HD3	2:CD:108:TRP:CZ2	2.49	0.47
2:CP:84:PRO:HG2	2:CP:88:LEU:HG	1.97	0.47
2:CS:84:PRO:HG3	2:CS:108:TRP:CH2	2.50	0.47
1:AV:160:TYR:CE1	1:AV:167:VAL:HG23	2.48	0.47
3:D6:56:ILE:CD1	3:D6:206:VAL:HG11	2.43	0.47
1:AA:239:PHE:CD1	3:DA:170:TYR:CD2	2.96	0.47
1:A9:110:GLY:H	1:AN:242:ASN:ND2	138.54	0.47
2:C2:223:ASN:ND2	2:C2:223:ASN:N	2.60	0.47
3:DA:70:ASP:HA	3:DA:135:ARG:HH12	1.79	0.47
3:DE:70:ASP:HA	3:DE:135:ARG:HH12	1.79	0.47
3:D6:70:ASP:HA	3:D6:135:ARG:HH12	1.79	0.47
2:C5:32:THR:HG23	2:C5:172:HIS:ND1	2.29	0.47
3:DD:110:PHE:HB3	3:DD:148:VAL:HG11	1.96	0.47
2:CD:23:ILE:H	2:CD:23:ILE:HD12	1.80	0.47
1:AD:224:ILE:HD11	3:DD:89:TYR:CZ	2.49	0.47
2:CK:176:PRO:HD2	2:CK:192:TRP:CZ2	2.49	0.47
2:CN:176:PRO:HD2	2:CN:192:TRP:CZ2	2.49	0.47
2:CJ:176:PRO:HD2	2:CJ:192:TRP:CZ2	2.49	0.47
2:CL:176:PRO:HD2	2:CL:192:TRP:CZ2	2.49	0.47
2:CB:176:PRO:HD2	2:CB:192:TRP:CZ2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:80:LEU:HD12	3:DT:80:LEU:H	1.77	0.47
2:CD:176:PRO:HD2	2:CD:192:TRP:CZ2	2.49	0.47
3:DM:73:LEU:HB3	3:DM:185:VAL:O	2.14	0.47
1:AG:237:HIS:O	3:DI:171:SER:HB2	91.64	0.47
1:A0:237:HIS:HB2	3:D1:81:SER:O	2.14	0.47
1:AO:128:VAL:HG11	1:AS:89:LYS:HG2	125.33	0.47
1:A1:237:HIS:HB2	3:D2:81:SER:O	2.14	0.47
1:AJ:4:VAL:HG22	3:DJ:151:ASN:O	2.13	0.47
1:BG:237:HIS:HB2	3:EC:81:SER:O	2.14	0.47
2:CY:42:ARG:HA	2:CY:43:PRO:HD2	1.64	0.47
1:AC:171:TYR:N	1:AC:185:ASN:OD1	2.45	0.47
1:A1:27:HIS:O	1:A1:33:LEU:HD21	2.13	0.47
1:AD:171:TYR:N	1:AD:185:ASN:OD1	2.45	0.47
3:DO:84:GLU:OE1	3:DO:84:GLU:N	2.48	0.47
1:BH:4:VAL:HG22	3:ED:151:ASN:O	2.14	0.47
3:DN:36:VAL:HA	3:DN:37:PRO:HD3	1.53	0.47
2:CH:115:ASN:HB2	3:DS:189:THR:HG22	159.01	0.47
2:CW:115:ASN:HB2	3:DJ:189:THR:HG22	1.96	0.47
2:CX:115:ASN:HB2	3:DO:189:THR:HG22	214.49	0.47
2:CA:115:ASN:HB2	3:DL:189:THR:HG22	259.95	0.47
2:C9:207:GLN:HB3	3:DL:196:ILE:CG2	97.82	0.47
2:CN:115:ASN:HB2	3:DE:189:THR:HG22	259.67	0.47
2:C6:207:GLN:HB3	3:DE:196:ILE:CG2	2.45	0.47
2:CS:115:ASN:HB2	3:EA:189:THR:HG22	159.51	0.47
1:AC:17:HIS:O	2:CB:48:SER:HA	2.14	0.47
1:AG:17:HIS:O	2:CH:48:SER:HA	92.69	0.47
1:AG:17:HIS:O	2:CF:48:SER:HA	2.14	0.47
1:AN:17:HIS:O	2:CM:48:SER:HA	2.15	0.47
3:DA:101:ARG:HD2	3:DA:165:ASP: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:DJ:157:ASN:O	3:DJ:159:PRO:HD3	2.14	0.47
3:DL:157:ASN:O	3:DL:159:PRO:HD3	2.14	0.47
3:EB:101:ARG:HD2	3:EB:165:ASP:O	2.14	0.47
1:AQ:17:HIS:O	2:CP:48:SER:HA	2.14	0.47
3:DV:101:ARG:HD2	3:DV:165:ASP:O	2.14	0.47
3:DU:101:ARG:HD2	3:DU:165:ASP:O	2.14	0.47
1:A0:17:HIS:O	2:C0:48:SER:HA	2.15	0.47
3:DR:160:TYR:HD1	3:DR:161:SER:N	2.13	0.47
1:AA:139:SER:HA	1:AA:140:PRO:HD3	1.62	0.47
1:AA:101:PHE:CD2	1:AA:143:VAL:CG1	2.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:137:GLY:HA2	1:AE:38:PHE:CD1	2.49	0.47
1:AD:156:PHE:CG	3:DD:25:LEU:HD12	2.49	0.47
1:AC:38:PHE:CD1	1:AG:137:GLY:HA2	183.84	0.47
1:AH:120:GLN:HB2	1:AH:129:ARG:HD3	1.96	0.47
1:AO:101:PHE:CD2	1:AO:143:VAL:HG11	2.44	0.47
1:AO:87:GLN:O	1:AO:88:PHE:CB	2.62	0.47
1:AQ:149:SER:C	1:AQ:151:SER:H	2.18	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:BI:149:SER:C	1:BI:151:SER:H	2.18	0.47
3:D9:25:LEU:HD21	3:DA:15:MET:HG2	219.85	0.47
3:DF:25:LEU:HD21	3:DG:15:MET:HG2	1.97	0.47
3:DG:25:LEU:HD21	3:DH:15:MET:CG	2.44	0.47
3:DQ:25:LEU:HD21	3:DR:15:MET:CG	2.44	0.47
3:DR:25:LEU:HD21	3:DS:15:MET:CG	2.45	0.47
3:DS:25:LEU:HD21	3:DT:15:MET:HG2	1.97	0.47
1:AT:156:PHE:CG	3:DU:25:LEU:HD12	2.49	0.47
3:DW:25:LEU:HD21	3:DX:15:MET:CG	2.45	0.47
1:AW:156:PHE:CG	3:DX:25:LEU:HD12	2.49	0.47
3:EA:19:PRO:HG3	4:FT:17:ASN:ND2	138.04	0.47
1:BG:157:SER:CB	3:EC:24:PRO:HA	2.35	0.47
3:DO:44:ILE:HG23	3:DO:45:ASP:N	2.29	0.47
3:EA:44:ILE:HG23	3:EA:45:ASP:N	2.30	0.47
3:DA:44:ILE:HG23	3:DA:45:ASP:N	2.29	0.47
3:DW:44:ILE:HG23	3:DW:45:ASP:N	2.29	0.47
1:A3:37:PHE:CD1	1:A3:212:ARG:HB2	2.49	0.47
1:AU:120:GLN:HB2	1:AU:129:ARG:HD3	1.96	0.47
3:EC:25:LEU:HD21	3:ED:15:MET:CG	2.45	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:A0:105:LYS:HE3	1:A0:139:SER:OG	2.13	0.47
1:A0:149:SER:C	1:A0:151:SER:H	2.18	0.47
1:A1:37:PHE:CD1	1:A1:212:ARG:HB2	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
3:D0:15:MET:HG2	3:DZ:25:LEU:HD21	1.97	0.47
1:AJ:187:LEU:HD22	1:AJ:188:PRO:N	2.30	0.47
1:A8:187:LEU:HD22	1:A8:188:PRO:N	2.30	0.47
1:AD:187:LEU:HD22	1:AD:188:PRO:N	2.30	0.47
1:AV:187:LEU:HD22	1:AV:188:PRO:N	2.30	0.47
1:AG:103:TRP:HB2	1:AG:198:THR:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:113:THR:O	1:A3:133:LEU:HD12	2.14	0.47
1:AN:113:THR:O	1:AN:133:LEU:HD12	2.14	0.47
1:BG:113:THR:O	1:BG:133:LEU:HD12	2.14	0.47
1:A0:113:THR:O	1:A0:133:LEU:HD12	2.14	0.47
1:A9:103:TRP:HB2	1:A9:198:THR:HG23	1.96	0.47
1:AF:103:TRP:HB2	1:AF:198:THR:HG23	1.96	0.47
1:AU:103:TRP:HB2	1:AU:198:THR:HG23	1.96	0.47
3:DP:53:PHE:HB3	3:DP:60:PRO:CB	2.44	0.47
3:DF:53:PHE:HB3	3:DF:60:PRO:HB2	1.96	0.47
3:EE:53:PHE:HB3	3:EE:60:PRO:HB2	1.96	0.47
2:CG:152:TYR:CD1	2:CG:152:TYR:C	2.88	0.47
3:D3:53:PHE:HB3	3:D3:60:PRO:CB	2.44	0.47
3:ED:53:PHE:HB3	3:ED:60:PRO:HB2	1.96	0.47
2:CS:152:TYR:C	2:CS:152:TYR:CD1	2.88	0.47
2:CZ:13:ARG:HA	2:CZ:13:ARG:HD3	1.72	0.47
1:BG:170:PHE:CD2	1:BG:222:ARG:CZ	2.87	0.47
3:D0:53:PHE:HB3	3:D0:60:PRO:CB	2.44	0.47
2:CD:84:PRO:HG3	2:CD:108:TRP:CH2	2.50	0.47
2:C8:84:PRO:HG3	2:C8:108:TRP:CH2	2.50	0.47
2:CJ:84:PRO:HG3	2:CJ:108:TRP:CH2	2.50	0.47
2:CS:84:PRO:HG2	2:CS:88:LEU:HG	1.97	0.47
2:CV:84:PRO:HG2	2:CV:88:LEU:HG	1.97	0.47
2:CB:84:PRO:HG3	2:CB:108:TRP:CH2	2.50	0.47
3:EC:75:GLN:HA	3:EC:183:LEU:O	2.14	0.47
2:CT:180:PRO:HD2	2:CT:189:HIS:HE1	1.76	0.47
1:AH:43:LEU:CD2	1:AH:43:LEU:N	2.74	0.47
1:AG:110:GLY:H	1:AH:242:ASN:ND2	2.12	0.47
1:AE:110:GLY:H	1:AF:242:ASN:ND2	76.67	0.47
3:DL:70:ASP:HA	3:DL:135:ARG:HH12	1.79	0.47
3:D4:70:ASP:HA	3:D4:135:ARG:HH12	1.79	0.47
1:A5:110:GLY:H	1:A6:242:ASN:ND2	2.12	0.47
2:CC:32:THR:HG23	2:CC:172:HIS:ND1	2.29	0.47
2:C4:32:THR:HG23	2:C4:172:HIS:ND1	2.29	0.47
3:DJ:110:PHE:HB3	3:DJ:148:VAL:HG11	1.97	0.47
2:CG:23:ILE:H	2:CG:23:ILE:HD12	1.80	0.47
1:A5:224:ILE:HD11	3:D6:89:TYR:CZ	2.49	0.47
1:A8:224:ILE:HD11	3:D9:89:TYR:CZ	2.49	0.47
2:CS:176:PRO:HD2	2:CS:192:TRP:CZ2	2.49	0.47
3:D1:80:LEU:HD12	3:D1:80:LEU:H	1.77	0.47
2:CX:36:TYR:CE2	2:CX:130:PRO:CG	2.98	0.47
2:C4:176:PRO:HD2	2:C4:192:TRP:CZ2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:73:LEU:HB3	3:D2:185:VAL:O	2.14	0.47
1:AK:237:HIS:HB2	3:DK:81:SER:O	2.14	0.47
1:A0:128:VAL:HG11	1:A1:89:LYS:HG2	1.96	0.47
1:AM:22:VAL:C	1:AM:24:MET:H	2.18	0.47
3:DQ:36:VAL:HA	3:DQ:37:PRO:HD3	1.53	0.47
1:A4:171:TYR:N	1:A4:185:ASN:OD1	2.45	0.47
3:DX:130:ALA:O	3:DX:131:ALA:HB3	2.13	0.47
3:DU:84:GLU:OE1	3:DU:84:GLU:N	2.48	0.47
2:C8:207:GLN:HB3	3:D9:196:ILE:CG2	2.45	0.47
2:CH:212:THR:HG23	3:DS:188:LEU:HD22	159.11	0.47
2:CH:212:THR:HG23	3:DN:188:LEU:HD22	256.97	0.47
2:CK:115:ASN:HB2	3:DA:189:THR:HG22	273.39	0.47
2:CJ:115:ASN:HB2	3:DA:189:THR:HG22	1.96	0.47
2:CT:115:ASN:HB2	3:DK:189:THR:HG22	1.97	0.47
2:C9:115:ASN:CA	3:DL:119:LYS:HZ3	88.97	0.47
2:C9:212:THR:HG23	3:DL:188:LEU:HD22	86.35	0.47
2:CB:115:ASN:HB2	3:DF:189:THR:HG22	143.06	0.47
1:AB:17:HIS:O	2:CC:48:SER:HA	92.70	0.47
1:A9:17:HIS:O	2:C9:48:SER:HA	2.15	0.47
3:DB:160:TYR:HD1	3:DB:161:SER:N	2.13	0.47
2:CA:46:THR:CG2	3:DB:165:ASP:HA	2.38	0.47
3:DG:160:TYR:HD1	3:DG:161:SER:N	2.13	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:160:TYR:HD1	3:DN:161:SER:N	2.13	0.47
3:D3:101:ARG:HD2	3:D3:165:ASP:O	2.14	0.47
3:DR:157:ASN:O	3:DR:159:PRO:HD3	2.14	0.47
1:AD:139:SER:HA	1:AD:140:PRO:HD3	1.62	0.47
1:AD:121:LEU:HD23	1:AE:42:THR:OG1	2.13	0.47
1:AH:156:PHE:CG	3:DH:25:LEU:HD12	2.49	0.47
1:AJ:149:SER:C	1:AJ:151:SER:H	2.18	0.47
1:AM:120:GLN:HB2	1:AM:129:ARG:HD3	1.96	0.47
1:AP:37:PHE:CD1	1:AP:212:ARG:HB2	2.49	0.47
1:AQ:105:LYS:HE3	1:AQ:139:SER:OG	2.14	0.47
1:AV:101:PHE:O	1:AV:199:SER:CB	2.62	0.47
1:AW:149:SER:C	1:AW:151:SER:H	2.18	0.47
1:BC:137:GLY:HA2	1:BD:38:PHE:CD1	2.49	0.47
1:BD:120:GLN:HB2	1:BD:129:ARG:HD3	1.96	0.47
1:A8:156:PHE:CG	3:D9:25:LEU:HD12	2.49	0.47
3:DA:25:LEU:HD21	3:DB:15:MET:HG2	1.97	0.47
3:DB:25:LEU:HD21	3:DC:15:MET:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:25:LEU:HD21	3:DD:15:MET:HG2	1.97	0.47
3:DC:25:LEU:HD21	3:DD:15:MET:CG	2.45	0.47
3:DE:25:LEU:HD21	3:DF:15:MET:HG2	107.73	0.47
3:DJ:25:LEU:HD21	3:DK:15:MET:HG2	258.17	0.47
3:DK:25:LEU:HD21	3:DL:15:MET:HG2	1.97	0.47
1:AO:156:PHE:CG	3:DO:25:LEU:HD12	2.49	0.47
1:AP:156:PHE:CG	3:DP:25:LEU:HD12	2.49	0.47
3:DP:25:LEU:HD21	3:DQ:15:MET:HG2	1.97	0.47
1:AO:156:PHE:CG	3:DS:25:LEU:HD12	111.66	0.47
3:DO:15:MET:CG	3:DS:25:LEU:HD21	120.76	0.47
1:BH:156:PHE:CG	3:ED:25:LEU:HD12	2.49	0.47
3:EA:15:MET:HG2	3:EE:25:LEU:HD21	1.97	0.47
3:DP:44:ILE:HG23	3:DP:45:ASP:N	2.30	0.47
3:DZ:44:ILE:HG23	3:DZ:45:ASP:N	2.30	0.47
1:BG:101:PHE:CD2	1:BG:143:VAL:CG1	2.91	0.47
3:DV:25:LEU:HD21	3:DW:15:MET:CG	2.44	0.47
1:A3:156:PHE:CG	3:D4:25:LEU:HD12	2.49	0.47
3:D5:25:LEU:HD21	3:D6:15:MET:HG2	1.97	0.47
3:D0:15:MET:CG	3:DZ:25:LEU:HD21	2.44	0.47
1:AL:187:LEU:HD22	1:AL:188:PRO:N	2.30	0.47
1:A0:187:LEU:HD22	1:A0:188:PRO:N	2.30	0.47
1:A5:120:GLN:HB2	1:A5:129:ARG:HD3	1.96	0.47
1:BC:187:LEU:HD22	1:BC:188:PRO:N	2.30	0.47
2:CN:134:HIS:HB3	2:CN:135:THR:H	1.46	0.47
1:BF:103:TRP:HB2	1:BF:198:THR:HG23	1.96	0.47
1:BI:103:TRP:HB2	1:BI:198:THR:HG23	1.96	0.47
1:A8:113:THR:O	1:A8:133:LEU:HD12	2.14	0.47
1:AK:113:THR:O	1:AK:133:LEU:HD12	2.14	0.47
2:CP:152:TYR:C	2:CP:152:TYR:CD1	2.88	0.47
2:CQ:76:GLY:HA2	2:CQ:197:LEU:HD21	1.97	0.47
2:CF:152:TYR:CD1	2:CF:152:TYR:C	2.88	0.47
2:CL:152:TYR:CD1	2:CL:152:TYR:C	2.88	0.47
2:CE:152:TYR:CD1	2:CE:152:TYR:C	2.88	0.47
3:D9:53:PHE:HB3	3:D9:60:PRO:HB2	1.96	0.47
2:CA:76:GLY:HA2	2:CA:197:LEU:HD21	1.97	0.47
3:DA:53:PHE:HB3	3:DA:60:PRO:HB2	1.96	0.47
2:C5:152:TYR:C	2:C5:152:TYR:CD1	2.88	0.47
2:CJ:13:ARG:HA	2:CJ:13:ARG:HD3	1.72	0.47
2:C0:152:TYR:C	2:C0:152:TYR:CD1	2.88	0.47
1:AU:170:PHE:CD2	1:AU:222:ARG:CZ	2.87	0.47
2:CD:84:PRO:HG2	2:CD:88:LEU:HG	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:84:PRO:HG3	2:CF:108:TRP:CH2	2.50	0.47
2:CA:84:PRO:HG2	2:CA:88:LEU:HG	1.97	0.47
2:C0:84:PRO:HD3	2:C0:108:TRP:CZ2	2.49	0.47
2:CK:83:LEU:HA	2:CK:84:PRO:HA	1.60	0.47
2:CX:84:PRO:HG2	2:CX:88:LEU:HG	1.97	0.47
2:CN:84:PRO:HG3	2:CN:108:TRP:CH2	2.50	0.47
2:CN:84:PRO:HG2	2:CN:88:LEU:HG	1.97	0.47
2:CG:84:PRO:HG3	2:CG:108:TRP:CH2	2.50	0.47
2:CW:84:PRO:HG2	2:CW:88:LEU:HG	1.97	0.47
2:CB:83:LEU:HA	2:CB:84:PRO:HA	1.60	0.47
2:CE:84:PRO:HG2	2:CE:88:LEU:HG	1.97	0.47
2:CH:84:PRO:HG2	2:CH:88:LEU:HG	1.97	0.47
2:CY:180:PRO:HD2	2:CY:189:HIS:HE1	1.77	0.47
1:AA:242:ASN:ND2	1:AE:110:GLY:H	2.12	0.47
3:DK:70:ASP:HA	3:DK:135:ARG:HH12	1.79	0.47
3:EE:70:ASP:HA	3:EE:135:ARG:HH12	1.79	0.47
3:DW:70:ASP:HA	3:DW:135:ARG:HH12	1.79	0.47
2:CK:32:THR:HG23	2:CK:172:HIS:ND1	2.29	0.47
3:EA:110:PHE:HB3	3:EA:148:VAL:HG11	1.96	0.47
3:DX:110:PHE:HB3	3:DX:148:VAL:HG11	1.96	0.47
3:D7:110:PHE:HB3	3:D7:148:VAL:HG11	1.96	0.47
1:AU:224:ILE:HD11	3:DV:89:TYR:CZ	2.49	0.47
3:DN:73:LEU:HB3	3:DN:185:VAL:O	2.14	0.47
3:DX:73:LEU:HB3	3:DX:185:VAL:O	2.14	0.47
1:AL:237:HIS:HB2	3:DL:81:SER:O	2.14	0.47
1:AM:237:HIS:O	3:DO:171:SER:HB2	91.64	0.47
1:A3:128:VAL:HG11	1:A4:89:LYS:HG2	1.96	0.47
1:AV:237:HIS:HB2	3:DW:81:SER:O	2.14	0.47
1:A9:4:VAL:HG22	3:DA:151:ASN:O	228.36	0.47
1:A9:27:HIS:O	1:A9:33:LEU:HD21	2.13	0.47
1:BI:171:TYR:N	1:BI:185:ASN:OD1	2.45	0.47
3:D2:130:ALA:O	3:D2:131:ALA:HB3	2.13	0.47
1:A3:27:HIS:O	1:A3:33:LEU:HD21	2.13	0.47
1:AO:22:VAL:C	1:AO:24:MET:H	2.18	0.47
1:AX:171:TYR:N	1:AX:185:ASN:OD1	2.45	0.47
3:DA:84:GLU:OE1	3:DA:84:GLU:N	2.48	0.47
3:DB:84:GLU:N	3:DB:84:GLU:OE1	2.48	0.47
3:DD:84:GLU:N	3:DD:84:GLU:OE1	2.48	0.47
3:DN:84:GLU:N	3:DN:84:GLU:OE1	2.48	0.47
3:DG:84:GLU:N	3:DG:84:GLU:OE1	2.48	0.47
1:A7:22:VAL:C	1:A7:24:MET:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DE:36:VAL:HA	3:DE:37:PRO:HD3	1.53	0.47
2:C8:212:THR:HG22	2:C8:213:MET:N	2.30	0.47
2:CI:212:THR:HG22	2:CI:213:MET:N	2.30	0.47
2:CC:207:GLN:HB3	3:DN:196:ILE:CG2	172.46	0.47
2:CC:207:GLN:HB3	3:ED:196:ILE:CG2	269.20	0.47
3:DJ:117:LYS:O	3:DJ:191:LEU:HD22	2.15	0.47
2:CC:115:ASN:CA	3:DN:119:LYS:HZ3	161.18	0.47
2:CC:212:THR:HG23	3:ED:188:LEU:HD22	240.56	0.47
2:CK:212:THR:HG22	2:CK:213:MET:N	2.30	0.47
2:CR:115:ASN:HB2	3:DI:189:THR:HG22	159.01	0.47
3:DM:117:LYS:O	3:DM:191:LEU:HD22	2.15	0.47
2:CJ:207:GLN:HB3	3:DM:196:ILE:CG2	245.76	0.47
2:CV:212:THR:HG22	2:CV:213:MET:N	2.30	0.47
2:CK:207:GLN:HB3	3:DA:196:ILE:CG2	292.74	0.47
2:CK:115:ASN:HB2	3:DB:189:THR:HG22	259.95	0.47
2:CM:207:GLN:HB3	3:DI:196:ILE:CG2	275.92	0.47
2:CR:212:THR:HG23	3:EE:188:LEU:HD22	1.96	0.47
2:C2:207:GLN:HB3	3:DH:196:ILE:CG2	275.25	0.47
2:CU:115:ASN:HB2	3:D5:189:THR:HG22	259.95	0.47
2:CL:207:GLN:HB3	3:D8:196:ILE:CG2	116.80	0.47
3:DG:117:LYS:O	3:DG:191:LEU:HD22	2.15	0.47
2:CD:115:ASN:HB2	3:D7:189:THR:HG22	1.96	0.47
2:CO:115:ASN:HB2	3:DP:189:THR:HG22	1.96	0.47
2:CO:115:ASN:HB2	3:DR:189:THR:HG22	148.62	0.47
2:CO:212:THR:HG22	2:CO:213:MET:N	2.30	0.47
2:CQ:212:THR:HG22	2:CQ:213:MET:N	2.30	0.47
3:DO:117:LYS:O	3:DO:191:LEU:HD22	2.15	0.47
2:CZ:207:GLN:HB3	3:DQ:196:ILE:CG2	97.82	0.47
2:CA:212:THR:HG23	3:DW:188:LEU:HD22	1.96	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:C6:212:THR:HG22	2:C6:213:MET:N	2.30	0.47
3:DE:117:LYS:O	3:DE:191:LEU:HD22	2.15	0.47
2:CE:115:ASN:HB2	3:DC:189:THR:HG22	153.23	0.47
2:CE:212:THR:HG22	2:CE:213:MET:N	2.30	0.47
2:CE:115:ASN:HB2	3:DF:189:THR:HG22	1.96	0.47
2:CB:212:THR:HG23	3:DT:188:LEU:HD22	256.97	0.47
2:CP:212:THR:HG22	2:CP:213:MET:N	2.30	0.47
2:CF:212:THR:HG23	3:D6:188:LEU:HD22	1.96	0.47
2:C4:115:ASN:HB2	3:EC:189:THR:HG22	1.96	0.47
1:AA:17:HIS:O	2:CB:48:SER:HA	92.69	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:17:HIS:O	2:CI:48:SER:HA	137.15	0.47
1:AK:17:HIS:O	2:CO:48:SER:HA	2.14	0.47
3:DH:160:TYR:HD1	3:DH:161:SER:N	2.13	0.47
3:DO:157:ASN:O	3:DO:159:PRO:HD3	2.14	0.47
1:AI:17:HIS:O	2:CJ:48:SER:HA	92.70	0.47
3:DC:157:ASN:O	3:DC:159:PRO:HD3	2.14	0.47
3:DE:160:TYR:HD1	3:DE:161:SER:N	2.13	0.47
3:DF:157:ASN:O	3:DF:159:PRO:HD3	2.14	0.47
3:DF:103:SER:HB2	3:DF:159:PRO:HA	1.95	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
1:A2:17:HIS:O	2:C2:48:SER:HA	2.14	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:DX:101:ARG:HD2	3:DX:165:ASP:O	2.14	0.47
3:DZ:157:ASN:O	3:DZ:159:PRO:HD3	2.14	0.47
2:CY:46:THR:CG2	3:DU:165:ASP:HA	2.38	0.47
3:ED:157:ASN:O	3:ED:159:PRO:HD3	2.14	0.47
3:D8:160:TYR:HD1	3:D8:161:SER:N	2.13	0.47
3:D0:157:ASN:O	3:D0:159:PRO:HD3	2.15	0.47
1:AA:137:GLY:HA2	1:AB:38:PHE:CD1	2.48	0.47
1:AC:42:THR:OG1	1:AG:121:LEU:HD23	192.24	0.47
1:AD:149:SER:C	1:AD:151:SER:H	2.18	0.47
1:AG:156:PHE:CG	3:DI:25:LEU:HD12	38.86	0.47
1:AK:38:PHE:CD1	1:AO:137:GLY:HA2	2.49	0.47
1:AR:149:SER:C	1:AR:151:SER:H	2.18	0.47
1:AU:149:SER:C	1:AU:151:SER:H	2.18	0.47
1:AX:149:SER:C	1:AX:151:SER:H	2.18	0.47
1:BC:101:PHE:O	1:BC:199:SER:CB	2.62	0.47
1:BE:101:PHE:CD2	1:BE:143:VAL:HG11	2.44	0.47
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
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:DP:15:MET:HG2	3:DT:25:LEU:HD21	1.97	0.47
3:DR:25:LEU:HD21	3:DS:15:MET:HG2	1.97	0.47
3:DU:15:MET:CG	3:DY:25:LEU:HD21	2.44	0.47
1:AW:157:SER:CB	3:DX:24:PRO:HA	2.36	0.47
3:DY:19:PRO:HG3	4:FY:17:ASN:ND2	2.26	0.47
1:A9:87:GLN:O	1:A9:88:PHE:CB	2.62	0.47
1:AC:120:GLN:HB2	1:AC:129:ARG:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:156:PHE:CG	3:DH:25:LEU:HD12	38.87	0.47
1:AX:87:GLN:O	1:AX:88:PHE:CB	2.62	0.47
3:DH:25:LEU:HD21	3:DI:15:MET:HG2	1.97	0.47
3:DJ:15:MET:HG2	3:DN:25:LEU:HD21	256.95	0.47
3:DK:15:MET:CG	3:DO:25:LEU:HD21	2.45	0.47
3:DJ:15:MET:CG	3:DN:25:LEU:HD21	257.88	0.47
3:DK:15:MET:HG2	3:DO:25:LEU:HD21	1.97	0.47
3:DO:25:LEU:HD21	3:DP:15:MET:HG2	107.73	0.47
3:EB:25:LEU:HD21	3:EC:15:MET:CG	2.45	0.47
3:DX:44:ILE:HG23	3:DX:45:ASP:N	2.29	0.47
3:DT:44:ILE:HG23	3:DT:45:ASP:N	2.29	0.47
1:A3:87:GLN:O	1:A3:88:PHE:CB	2.62	0.47
1:A7:120:GLN:HB2	1:A7:129:ARG:HD3	1.96	0.47
3:ED:44:ILE:HG23	3:ED:45:ASP:N	2.30	0.47
1:AU:156:PHE:CG	3:DV:25:LEU:HD12	2.49	0.47
1:BH:149:SER:C	1:BH:151:SER:H	2.18	0.47
1:BG:156:PHE:CG	3:EC:25:LEU:HD12	2.49	0.47
1:A3:101:PHE:CD2	1:A3:143:VAL:CG1	2.91	0.47
1:A2:37:PHE:CD1	1:A2:212:ARG:HB2	2.49	0.47
3:D0:25:LEU:HD21	3:D1:15:MET:CG	2.45	0.47
1:AY:40:VAL:HG22	1:AY:211:TYR:HE1	1.77	0.47
1:AN:187:LEU:HD22	1:AN:188:PRO:N	2.29	0.47
1:AA:187:LEU:HD22	1:AA:188:PRO:N	2.30	0.47
1:A4:187:LEU:HD22	1:A4:188:PRO:N	2.30	0.47
1:AY:187:LEU:HD22	1:AY:188:PRO:N	2.30	0.47
1:A5:105:LYS:HE3	1:A5:139:SER:OG	2.14	0.47
1:BI:187:LEU:HD22	1:BI:188:PRO:N	2.30	0.47
1:BG:187:LEU:HD22	1:BG:188:PRO:N	2.30	0.47
1:AB:113:THR:O	1:AB:133:LEU:HD12	2.14	0.47
1:AP:113:THR:O	1:AP:133:LEU:HD12	2.14	0.47
1:BE:103:TRP:HB2	1:BE:198:THR:HG23	1.96	0.47
1:A3:103:TRP:HB2	1:A3:198:THR:HG23	1.96	0.47
1:A1:113:THR:O	1:A1:133:LEU:HD12	2.14	0.47
1:A4:103:TRP:HB2	1:A4:198:THR:HG23	1.96	0.47
2:CP:76:GLY:HA2	2:CP:197:LEU:HD21	1.97	0.47
2:CM:76:GLY:HA2	2:CM:197:LEU:HD21	1.97	0.47
2:CI:152:TYR:C	2:CI:152:TYR:CD1	2.88	0.47
2:CH:76:GLY:HA2	2:CH:197:LEU:HD21	1.97	0.47
2:CV:152:TYR:CD1	2:CV:152:TYR:C	2.88	0.47
3:DV:53:PHE:HB3	3:DV:60:PRO:CB	2.44	0.47
3:DG:53:PHE:HB3	3:DG:60:PRO:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:152:TYR:C	2:C3:152:TYR:CD1	2.88	0.47
3:D3:53:PHE:HB3	3:D3:60:PRO:HB2	1.96	0.47
2:CA:152:TYR:CD1	2:CA:152:TYR:C	2.88	0.47
2:CW:152:TYR:C	2:CW:152:TYR:CD1	2.88	0.47
2:C5:76:GLY:HA2	2:C5:197:LEU:HD21	1.97	0.47
2:CK:152:TYR:C	2:CK:152:TYR:CD1	2.88	0.47
3:D4:53:PHE:HB3	3:D4:60:PRO:HB2	1.96	0.47
2:CB:152:TYR:CD1	2:CB:152:TYR:C	2.88	0.47
2:C4:152:TYR:CD1	2:C4:152:TYR:C	2.88	0.47
2:CC:152:TYR:C	2:CC:152:TYR:CD1	2.88	0.47
2:CO:76:GLY:HA2	2:CO:197:LEU:HD21	1.97	0.47
2:CD:76:GLY:HA2	2:CD:197:LEU:HD21	1.97	0.47
2:CF:13:ARG:HD3	2:CF:13:ARG:HA	1.72	0.47
1:AY:170:PHE:CD2	1:AY:222:ARG:CZ	2.87	0.47
2:C2:152:TYR:CD1	2:C2:152:TYR:C	2.88	0.47
2:C2:76:GLY:HA2	2:C2:197:LEU:HD21	1.97	0.47
1:A0:30:VAL:HG13	1:A0:218:MET:HE2	1.96	0.47
2:CT:84:PRO:HG3	2:CT:108:TRP:CH2	2.50	0.47
2:CF:84:PRO:HG2	2:CF:88:LEU:HG	1.97	0.47
2:C1:84:PRO:HG2	2:C1:88:LEU:HG	1.97	0.47
2:CK:84:PRO:HG2	2:CK:88:LEU:HG	1.97	0.47
2:CM:83:LEU:HA	2:CM:84:PRO:HA	1.60	0.47
2:CL:84:PRO:HG2	2:CL:88:LEU:HG	1.97	0.47
2:CL:84:PRO:HG3	2:CL:108:TRP:CH2	2.50	0.47
2:CY:84:PRO:HG2	2:CY:88:LEU:HG	1.97	0.47
2:CO:84:PRO:HD3	2:CO:108:TRP:CZ2	2.49	0.47
2:CJ:84:PRO:HG2	2:CJ:88:LEU:HG	1.97	0.47
1:AR:219:TYR:HD2	3:DR:39:ARG:HB2	1.79	0.47
2:CB:84:PRO:HG2	2:CB:88:LEU:HG	1.97	0.47
2:C5:84:PRO:HD3	2:C5:108:TRP:CZ2	2.49	0.47
3:D4:75:GLN:HA	3:D4:183:LEU:O	2.14	0.47
2:C0:195:VAL:C	2:C0:196:ILE:HG13	2.33	0.47
1:AC:46:SER:HB2	1:AC:197:LEU:O	2.15	0.47
1:BH:46:SER:HB2	1:BH:197:LEU:O	2.15	0.47
1:AO:43:LEU:N	1:AO:43:LEU:CD2	2.74	0.47
1:AG:46:SER:HB2	1:AG:197:LEU:O	2.15	0.47
3:DD:70:ASP:HA	3:DD:135:ARG:HH12	1.79	0.47
3:DM:70:ASP:HA	3:DM:135:ARG:HH12	1.79	0.47
3:D7:70:ASP:HA	3:D7:135:ARG:HH12	1.79	0.47
2:CQ:32:THR:HG23	2:CQ:172:HIS:ND1	2.29	0.47
3:DE:110:PHE:HB3	3:DE:148:VAL:HG11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:23:ILE:HD12	2:CT:23:ILE:H	1.80	0.47
2:CC:23:ILE:H	2:CC:23:ILE:HD12	1.80	0.47
1:AC:224:ILE:HD11	3:DC:89:TYR:CZ	2.49	0.47
1:AB:224:ILE:HD11	3:DB:89:TYR:CZ	2.49	0.47
1:AL:224:ILE:HD11	3:DN:89:TYR:CZ	83.15	0.47
1:BA:224:ILE:HD11	3:DP:89:TYR:CZ	112.17	0.47
2:C5:176:PRO:HD2	2:C5:192:TRP:CZ2	2.49	0.47
3:EE:80:LEU:HD12	3:EE:80:LEU:H	1.77	0.47
2:C0:176:PRO:HD2	2:C0:192:TRP:CZ2	2.49	0.47
2:C8:176:PRO:HD2	2:C8:192:TRP:CZ2	2.49	0.47
3:DQ:73:LEU:HB3	3:DQ:185:VAL:O	2.14	0.47
3:DJ:122:VAL:HA	3:DJ:185:VAL:HA	1.97	0.47
3:D9:73:LEU:HB3	3:D9:185:VAL:O	2.14	0.47
3:DF:122:VAL:HG22	3:DF:123:ALA:N	2.30	0.47
1:AJ:237:HIS:HB2	3:DJ:81:SER:O	2.14	0.47
1:AB:128:VAL:HG11	1:AC:89:LYS:HG2	1.96	0.47
1:A8:237:HIS:HB2	3:D9:81:SER:O	2.14	0.47
1:A5:237:HIS:HB2	3:D6:81:SER:O	2.14	0.47
1:A5:128:VAL:HG11	1:A6:89:LYS:HG2	1.96	0.47
1:AL:4:VAL:HG22	3:DL:151:ASN:O	2.14	0.47
1:AE:4:VAL:HG22	3:DG:151:ASN:O	91.99	0.47
1:AE:4:VAL:HG22	3:DE:151:ASN:O	2.14	0.47
1:AK:22:VAL:C	1:AK:24:MET:H	2.18	0.47
3:DC:62:PHE:CE2	3:DC:204:VAL:HG11	2.50	0.47
1:AC:22:VAL:C	1:AC:24:MET:H	2.18	0.47
1:A8:4:VAL:HG22	3:D9:151:ASN:O	2.14	0.47
1:A6:22:VAL:C	1:A6:24:MET:H	2.18	0.47
3:D6:36:VAL:HA	3:D6:37:PRO:HD3	1.53	0.47
3:DH:36:VAL:HA	3:DH:37:PRO:HD3	1.53	0.47
1:A3:22:VAL:C	1:A3:24:MET:H	2.18	0.47
1:AV:171:TYR:N	1:AV:185:ASN:OD1	2.45	0.47
3:DQ:84:GLU:OE1	3:DQ:84:GLU:N	2.48	0.47
3:DR:84:GLU:OE1	3:DR:84:GLU:N	2.48	0.47
3:DC:84:GLU:N	3:DC:84:GLU:OE1	2.48	0.47
3:EC:84:GLU:N	3:EC:84:GLU:OE1	2.48	0.47
3:D4:84:GLU:OE1	3:D4:84:GLU:N	2.48	0.47
3:DY:84:GLU:N	3:DY:84:GLU:OE1	2.48	0.47
3:DM:36:VAL:HA	3:DM:37:PRO:HD3	1.53	0.47
1:A8:22:VAL:C	1:A8:24:MET:H	2.18	0.47
1:AA:22:VAL:C	1:AA:24:MET:H	2.18	0.47
1:AQ:22:VAL:C	1:AQ:24:MET:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:62:PHE:CE2	3:DD:204:VAL:HG11	2.50	0.47
3:DM:62:PHE:CE2	3:DM:204:VAL:HG11	2.50	0.47
2:C9:167:THR:O	2:C9:168:ASN:HB3	2.13	0.47
1:BD:22:VAL:C	1:BD:24:MET:H	2.18	0.47
3:DB:36:VAL:HA	3:DB:37:PRO:HD3	1.53	0.47
3:D7:84:GLU:N	3:D7:84:GLU:OE1	2.48	0.47
3:DI:84:GLU:OE1	3:DI:84:GLU:N	2.48	0.47
3:DJ:84:GLU:N	3:DJ:84:GLU:OE1	2.48	0.47
3:D9:84:GLU:N	3:D9:84:GLU:OE1	2.48	0.47
3:DL:84:GLU:N	3:DL:84:GLU:OE1	2.48	0.47
3:DM:84:GLU:N	3:DM:84:GLU:OE1	2.48	0.47
3:DE:84:GLU:OE1	3:DE:84:GLU:N	2.48	0.47
3:DW:84:GLU:N	3:DW:84:GLU:OE1	2.48	0.47
3:DP:84:GLU:OE1	3:DP:84:GLU:N	2.48	0.47
1:AX:4:VAL:HG22	3:DY:151:ASN:O	2.14	0.47
3:D9:117:LYS:O	3:D9:191:LEU:HD22	2.15	0.47
2:CC:212:THR:HG22	2:CC:213:MET:N	2.30	0.47
2:CW:212:THR:HG22	2:CW:213:MET:N	2.30	0.47
2:CJ:212:THR:HG22	2:CJ:213:MET:N	2.30	0.47
2:CM:115:ASN:HB2	3:DD:189:THR:HG22	159.01	0.47
2:CL:212:THR:HG22	2:CL:213:MET:N	2.30	0.47
2:CU:207:GLN:HB3	3:DG:196:ILE:CG2	268.44	0.47
2:CD:207:GLN:HB3	3:D4:196:ILE:CG2	162.41	0.47
2:CX:212:THR:HG22	2:CX:213:MET:N	2.30	0.47
2:C0:207:GLN:HB3	3:DQ:196:ILE:CG2	2.45	0.47
2:C9:212:THR:HG22	2:C9:213:MET:N	2.30	0.47
2:CY:207:GLN:HB3	3:DZ:196:ILE:CG2	2.45	0.47
2:CS:207:GLN:HB3	3:DC:196:ILE:CG2	275.92	0.47
3:DC:117:LYS:O	3:DC:191:LEU:HD22	2.15	0.47
3:EA:117:LYS:O	3:EA:191:LEU:HD22	2.15	0.47
2:C4:207:GLN:HB3	3:EC:196:ILE:CG2	2.45	0.47
1:AE:17:HIS:O	2:CF:48:SER:HA	88.69	0.47
1:AH:17:HIS:O	2:CG:48:SER:HA	2.14	0.47
1:AP:17:HIS:O	2:CT:48:SER:HA	2.14	0.47
1:BA:17:HIS:O	2:CO:48:SER:HA	143.47	0.47
1:AN:17:HIS:O	2:CA:48:SER:HA	172.58	0.47
1:AO:17:HIS:O	2:CR:48:SER:HA	147.61	0.47
3:D9:160:TYR:HD1	3:D9:161:SER:N	2.13	0.47
3:DC:160:TYR:HD1	3:DC:161:SER:N	2.13	0.47
2:CU:49:ASP:HA	2:CU:50:PRO:HD2	1.80	0.47
3:DX:160:TYR:HD1	3:DX:161:SER:N	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:160:TYR:HD1	3:D2:161:SER:N	2.13	0.47
1:A8:120:GLN:HB2	1:A8:129:ARG:HD3	1.96	0.47
1:AC:84:LEU:CD2	1:AC:209:LEU:HD11	2.45	0.47
1:AF:84:LEU:CD2	1:AF:209:LEU:HD11	2.45	0.47
1:AI:84:LEU:CD2	1:AI:209:LEU:HD11	2.45	0.47
1:AK:137:GLY:HA2	1:AL:38:PHE:CD1	2.49	0.47
1:AX:101:PHE:CD2	1:AX:143:VAL:CG1	2.91	0.47
1:BH:120:GLN:HB2	1:BH:129:ARG:HD3	1.96	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:DE:15:MET:CG	3:DI:25:LEU:HD21	120.76	0.47
3:DN:25:LEU:HD21	3:DO:15:MET:CG	2.45	0.47
1:BC:156:PHE:CG	3:DR:25:LEU:HD12	147.45	0.47
3:DO:15:MET:HG2	3:DS:25:LEU:HD21	120.51	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:EA:15:MET:CG	3:EE:25:LEU:HD21	2.45	0.47
3:DC:44:ILE:HG23	3:DC:45:ASP:N	2.29	0.47
3:DF:44:ILE:HG23	3:DF:45:ASP:N	2.30	0.47
1:A7:84:LEU:CD2	1:A7:209:LEU:HD11	2.45	0.47
3:D7:25:LEU:HD21	3:D8:15:MET:CG	2.45	0.47
1:BH:87:GLN:O	1:BH:88:PHE:CB	2.62	0.47
3:DF:220:VAL:HG12	3:DF:221:ASP:O	2.15	0.47
3:DA:220:VAL:HG12	3:DA:221:ASP:O	2.15	0.47
3:D5:25:LEU:HD21	3:D6:15:MET:CG	2.45	0.47
1:A1:101:PHE:O	1:A1:199:SER:CB	2.62	0.47
1:A1:87:GLN:O	1:A1:88:PHE:CB	2.62	0.47
1:AZ:120:GLN:HB2	1:AZ:129:ARG:HD3	1.96	0.47
1:A2:101:PHE:CD2	1:A2:143:VAL:HG11	2.44	0.47
3:D2:220:VAL:HG12	3:D2:221:ASP:O	2.15	0.47
1:AZ:187:LEU:HD22	1:AZ:188:PRO:N	2.30	0.47
1:AI:187:LEU:HD22	1:AI:188:PRO:N	2.30	0.47
3:DU:220:VAL:HG12	3:DU:221:ASP:O	2.15	0.47
1:AC:103:TRP:HB2	1:AC:198:THR:HG23	1.96	0.47
1:AI:113:THR:O	1:AI:133:LEU:HD12	2.14	0.47
2:CN:152:TYR:C	2:CN:152:TYR:CD1	2.88	0.47
3:DU:53:PHE:HB3	3:DU:60:PRO:HB2	1.96	0.47
3:EB:108:PHE:O	3:EB:153:ALA:HA	2.15	0.47
2:CX:152:TYR:CD1	2:CX:152:TYR:C	2.88	0.47
2:C3:76:GLY:HA2	2:C3:197:LEU:HD21	1.97	0.47
2:CE:76:GLY:HA2	2:CE:197:LEU:HD21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:53:PHE:HB3	3:ED:60:PRO:CB	2.44	0.47
2:CK:76:GLY:HA2	2:CK:197:LEU:HD21	1.97	0.47
2:C7:152:TYR:C	2:C7:152:TYR:CD1	2.88	0.47
2:C6:76:GLY:HA2	2:C6:197:LEU:HD21	1.97	0.47
2:CU:13:ARG:HD3	2:CU:13:ARG:HA	1.72	0.47
2:C8:84:PRO:HG2	2:C8:88:LEU:HG	1.97	0.47
2:CK:84:PRO:HG3	2:CK:108:TRP:CH2	2.50	0.47
2:CM:84:PRO:HG3	2:CM:108:TRP:CH2	2.50	0.47
2:CR:84:PRO:HD3	2:CR:108:TRP:CZ2	2.49	0.47
2:CR:84:PRO:HG2	2:CR:88:LEU:HG	1.97	0.47
2:CY:84:PRO:HD3	2:CY:108:TRP:CZ2	2.49	0.47
3:DZ:75:GLN:HA	3:DZ:183:LEU:O	2.14	0.47
3:DR:56:ILE:CG1	3:DR:74:PHE:CE1	2.98	0.47
3:EE:75:GLN:HA	3:EE:183:LEU:O	2.14	0.47
1:BF:46:SER:HB2	1:BF:197:LEU:O	2.15	0.47
1:AM:46:SER:HB2	1:AM:197:LEU:O	2.15	0.47
1:AU:43:LEU:N	1:AU:43:LEU:CD2	2.74	0.47
1:AY:46:SER:HB2	1:AY:197:LEU:O	2.15	0.47
1:AD:46:SER:HB2	1:AD:197:LEU:O	2.15	0.47
1:A1:46:SER:HB2	1:A1:197:LEU:O	2.15	0.47
1:BA:43:LEU:N	1:BA:43:LEU:CD2	2.74	0.47
3:EA:70:ASP:HA	3:EA:135:ARG:HH12	1.79	0.47
3:DN:70:ASP:HA	3:DN:135:ARG:HH12	1.79	0.47
3:DS:70:ASP:HA	3:DS:135:ARG:HH12	1.79	0.47
3:EB:70:ASP:HA	3:EB:135:ARG:HH12	1.79	0.47
3:DI:110:PHE:HB3	3:DI:148:VAL:HG11	1.96	0.47
2:CN:23:ILE:H	2:CN:23:ILE:HD12	1.80	0.47
1:AI:224:ILE:HD11	3:DK:89:TYR:CZ	250.92	0.47
1:AM:224:ILE:HD11	3:DO:89:TYR:CZ	83.15	0.47
1:BC:224:ILE:HD11	3:DR:89:TYR:CZ	141.45	0.47
3:DW:122:VAL:HG22	3:DW:123:ALA:N	2.30	0.47
3:DE:122:VAL:HG22	3:DE:123:ALA:N	2.30	0.47
3:DJ:122:VAL:HG22	3:DJ:123:ALA:N	2.30	0.47
3:D5:122:VAL:HA	3:D5:185:VAL:HA	1.97	0.47
3:DR:122:VAL:HA	3:DR:185:VAL:HA	1.97	0.47
3:DL:122:VAL:HA	3:DL:185:VAL:HA	1.97	0.47
1:AG:128:VAL:HG11	1:AH:89:LYS:HG2	1.96	0.47
1:A7:237:HIS:HB2	3:D8:81:SER:O	2.14	0.47
1:AK:4:VAL:HG22	3:DM:151:ASN:O	124.23	0.47
3:DI:62:PHE:CE2	3:DI:204:VAL:HG11	2.50	0.47
3:D2:62:PHE:CE2	3:D2:204:VAL:HG11	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:22:VAL:C	1:AL:24:MET:H	2.18	0.47
3:ED:62:PHE:CE2	3:ED:204:VAL:HG11	2.50	0.47
3:D4:62:PHE:CE2	3:D4:204:VAL:HG11	2.50	0.47
1:AN:22:VAL:C	1:AN:24:MET:H	2.18	0.47
3:DF:62:PHE:CE2	3:DF:204:VAL:HG11	2.50	0.47
3:DS:36:VAL:HA	3:DS:37:PRO:HD3	1.53	0.47
1:BE:22:VAL:C	1:BE:24:MET:H	2.18	0.47
3:DH:62:PHE:CE2	3:DH:204:VAL:HG11	2.50	0.47
3:D8:62:PHE:CE2	3:D8:204:VAL:HG11	2.50	0.47
3:D0:84:GLU:OE1	3:D0:84:GLU:N	2.48	0.47
3:DK:84:GLU:N	3:DK:84:GLU:OE1	2.48	0.47
3:EE:84:GLU:N	3:EE:84:GLU:OE1	2.48	0.47
1:BI:22:VAL:C	1:BI:24:MET:H	2.18	0.47
2:CC:115:ASN:HB2	3:DN:189:THR:HG22	159.01	0.47
2:CM:212:THR:HG22	2:CM:213:MET:N	2.30	0.47
2:CL:207:GLN:HB3	3:DK:196:ILE:CG2	114.85	0.47
2:C5:212:THR:HG22	2:C5:213:MET:N	2.30	0.47
2:CU:115:ASN:HD22	3:DG:190:ALA:C	252.66	0.47
2:C5:207:GLN:HB3	3:DG:196:ILE:CG2	2.45	0.47
2:CO:207:GLN:HB3	3:DR:196:ILE:CG2	162.41	0.47
2:C1:207:GLN:HB3	3:DO:196:ILE:CG2	2.45	0.47
3:DY:117:LYS:O	3:DY:191:LEU:HD22	2.15	0.47
2:CG:212:THR:HG22	2:CG:213:MET:N	2.30	0.47
2:CA:212:THR:HG22	2:CA:213:MET:N	2.30	0.47
2:CB:212:THR:HG22	2:CB:213:MET:N	2.30	0.47
2:CS:212:THR:HG22	2:CS:213:MET:N	2.30	0.47
3:DT:117:LYS:O	3:DT:191:LEU:HD22	2.15	0.47
2:CP:207:GLN:HB3	3:D1:196:ILE:CG2	2.45	0.47
2:C4:212:THR:HG22	2:C4:213:MET:N	2.30	0.47
3:DA:103:SER:HB3	3:DA:159:PRO:CA	2.35	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:DF:160:TYR:HD1	3:DF:161:SER:N	2.13	0.47
3:DJ:160:TYR:HD1	3:DJ:161:SER:N	2.13	0.47
3:DQ:160:TYR:HD1	3:DQ:161:SER:N	2.13	0.47
3:EC:160:TYR:HD1	3:EC:161:SER:N	2.13	0.47
3:DY:160:TYR:HD1	3:DY:161:SER:N	2.13	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:D8:157:ASN:O	3:D8:159:PRO:HD3	2.15	0.47
1:A1:17:HIS:O	2:C1:48:SER:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D6:101:ARG:HA	3:D6:160:TYR:CE2	2.48	0.47
1:AA:120:GLN:HB2	1:AA:129:ARG:HD3	1.96	0.47
1:AA:84:LEU:CD2	1:AA:209:LEU:HD11	2.45	0.47
1:AB:84:LEU:CD2	1:AB:209:LEU:HD11	2.45	0.47
1:AH:151:SER:C	1:AH:153:ALA:H	2.19	0.47
1:AI:120:GLN:HB2	1:AI:129:ARG:HD3	1.96	0.47
1:AL:149:SER:C	1:AL:151:SER:H	2.18	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:AT:101:PHE:CD2	1:AT:143:VAL:HG11	2.44	0.47
1:AT:149:SER:C	1:AT:151:SER:H	2.18	0.47
1:AU:151:SER:C	1:AU:153:ALA:H	2.19	0.47
1:AU:87:GLN:O	1:AU:88:PHE:CB	2.62	0.47
1:BA:84:LEU:CD2	1:BA:209:LEU:HD11	2.45	0.47
1:BC:120:GLN:HB2	1:BC:129:ARG:HD3	1.96	0.47
3:D9:15:MET:CG	3:DD:25:LEU:HD21	205.50	0.47
3:DE:25:LEU:HD21	3:DF:15:MET:CG	108.39	0.47
3:DK:25:LEU:HD21	3:DL:15:MET:CG	2.44	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:EA:25:LEU:HD21	3:EB:15:MET:HG2	1.97	0.47
3:D4:44:ILE:HG23	3:D4:45:ASP:N	2.29	0.47
3:DL:220:VAL:HG12	3:DL:221:ASP:O	2.15	0.47
3:DN:220:VAL:HG12	3:DN:221:ASP:O	2.15	0.47
3:DH:220:VAL:HG12	3:DH:221:ASP:O	2.15	0.47
3:DI:220:VAL:HG12	3:DI:221:ASP:O	2.15	0.47
3:DC:220:VAL:HG12	3:DC:221:ASP:O	2.15	0.47
3:D2:19:PRO:HG3	4:F2:17:ASN:ND2	2.26	0.47
3:DZ:19:PRO:HG3	4:FZ:17:ASN:ND2	2.26	0.47
1:AM:187:LEU:HD22	1:AM:188:PRO:N	2.30	0.47
1:AS:187:LEU:HD22	1:AS:188:PRO:N	2.30	0.47
1:AH:187:LEU:HD22	1:AH:188:PRO:N	2.29	0.47
1:AO:187:LEU:HD22	1:AO:188:PRO:N	2.30	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
3:D6:25:LEU:HD21	3:D7:15:MET:HG2	1.97	0.47
1:BA:187:LEU:HD22	1:BA:188:PRO:N	2.30	0.47
1:A3:187:LEU:HD22	1:A3:188:PRO:N	2.30	0.47
1:A2:187:LEU:HD22	1:A2:188:PRO:N	2.30	0.47
1:A1:187:LEU:HD22	1:A1:188:PRO:N	2.30	0.47
1:AT:187:LEU:HD22	1:AT:188:PRO:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:134:HIS:HB3	2:CD:135:THR:H	1.46	0.47
3:DQ:108:PHE:O	3:DQ:153:ALA:HA	2.15	0.47
2:CI:76:GLY:HA2	2:CI:197:LEU:HD21	1.97	0.47
2:CF:76:GLY:HA2	2:CF:197:LEU:HD21	1.97	0.47
2:CT:76:GLY:HA2	2:CT:197:LEU:HD21	1.97	0.47
2:C1:152:TYR:C	2:C1:152:TYR:CD1	2.88	0.47
2:C8:152:TYR:C	2:C8:152:TYR:CD1	2.88	0.47
2:C8:76:GLY:HA2	2:C8:197:LEU:HD21	1.97	0.47
2:CU:84:PRO:HG2	2:CU:88:LEU:HG	1.97	0.47
2:CU:84:PRO:HG3	2:CU:108:TRP:CH2	2.50	0.47
2:CR:84:PRO:HG3	2:CR:108:TRP:CH2	2.50	0.47
2:C2:84:PRO:HG2	2:C2:88:LEU:HG	1.97	0.47
2:CO:84:PRO:HG2	2:CO:88:LEU:HG	1.97	0.47
2:CQ:83:LEU:HA	2:CQ:84:PRO:HA	1.60	0.47
2:CJ:180:PRO:HD2	2:CJ:189:HIS:HE1	1.76	0.47
3:DK:56:ILE:CG1	3:DK:74:PHE:CE1	2.98	0.47
2:C0:75:HIS:NE2	3:D0:59:LYS:HB3	2.30	0.47
2:CO:75:HIS:NE2	3:DO:59:LYS:HB3	2.30	0.47
3:D9:56:ILE:CG1	3:D9:74:PHE:CE1	2.98	0.47
2:CT:75:HIS:NE2	3:DT:59:LYS:HB3	2.30	0.47
3:EA:56:ILE:CG1	3:EA:74:PHE:CE1	2.98	0.47
3:EE:56:ILE:CG1	3:EE:74:PHE:CE1	2.98	0.47
1:BC:43:LEU:CD2	1:BC:43:LEU:N	2.74	0.47
1:A4:46:SER:HB2	1:A4:197:LEU:O	2.15	0.47
1:AX:46:SER:HB2	1:AX:197:LEU:O	2.15	0.47
1:AC:242:ASN:ND2	1:AG:110:GLY:H	194.17	0.47
1:AD:110:GLY:H	1:AE:242:ASN:ND2	2.12	0.47
3:DP:70:ASP:HA	3:DP:135:ARG:HH12	1.79	0.47
2:CR:23:ILE:H	2:CR:23:ILE:HD12	1.80	0.47
1:AS:224:ILE:HD11	3:DT:89:TYR:CZ	2.49	0.47
2:C1:36:TYR:CE2	2:C1:130:PRO:CG	2.98	0.47
2:CV:36:TYR:CE2	2:CV:130:PRO:CG	2.98	0.47
2:CI:36:TYR:CE2	2:CI:130:PRO:CG	2.98	0.47
3:EA:73:LEU:HB3	3:EA:185:VAL:O	2.14	0.47
3:DS:122:VAL:HA	3:DS:185:VAL:HA	1.97	0.47
3:DI:122:VAL:HA	3:DI:185:VAL:HA	1.97	0.47
3:DA:122:VAL:HA	3:DA:185:VAL:HA	1.97	0.47
3:DX:122:VAL:HA	3:DX:185:VAL:HA	1.97	0.47
3:D0:122:VAL:HG22	3:D0:123:ALA:N	2.30	0.47
1:AD:237:HIS:HB2	3:DD:81:SER:O	2.14	0.47
1:AF:237:HIS:HB2	3:DH:81:SER:O	94.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:237:HIS:HB2	3:DL:81:SER:O	278.44	0.47
1:AC:237:HIS:O	3:DC:171:SER:HB2	2.13	0.47
1:AB:22:VAL:C	1:AB:24:MET:H	2.18	0.47
3:DL:62:PHE:CE2	3:DL:204:VAL:HG11	2.50	0.47
3:DF:36:VAL:HA	3:DF:37:PRO:HD3	1.53	0.47
3:D1:36:VAL:HA	3:D1:37:PRO:HD3	1.53	0.47
1:AV:22:VAL:C	1:AV:24:MET:H	2.18	0.47
3:DO:62:PHE:CE2	3:DO:204:VAL:HG11	2.50	0.47
3:D8:36:VAL:HA	3:D8:37:PRO:HD3	1.53	0.47
3:D3:84:GLU:OE1	3:D3:84:GLU:N	2.48	0.47
3:DJ:62:PHE:CE2	3:DJ:204:VAL:HG11	2.50	0.47
3:DX:84:GLU:N	3:DX:84:GLU:OE1	2.48	0.47
3:D9:62:PHE:CE2	3:D9:204:VAL:HG11	2.50	0.47
3:DB:62:PHE:CE2	3:DB:204:VAL:HG11	2.50	0.47
2:CH:212:THR:HG22	2:CH:213:MET:N	2.30	0.47
2:CC:212:THR:HG23	3:DN:188:LEU:HD22	159.10	0.47
3:DS:117:LYS:O	3:DS:191:LEU:HD22	2.15	0.47
2:C7:207:GLN:HB3	3:DM:196:ILE:CG2	167.13	0.47
2:C7:212:THR:HG22	2:C7:213:MET:N	2.30	0.47
2:CJ:207:GLN:HB3	3:DA:196:ILE:CG2	2.45	0.47
2:CM:207:GLN:HB3	3:DD:196:ILE:CG2	172.46	0.47
2:CV:115:ASN:HB2	3:DD:189:THR:HG22	148.62	0.47
3:DB:117:LYS:O	3:DB:191:LEU:HD22	2.15	0.47
3:DI:117:LYS:O	3:DI:191:LEU:HD22	2.15	0.47
2:CT:207:GLN:HB3	3:DK:196:ILE:CG2	2.45	0.47
3:DK:117:LYS:O	3:DK:191:LEU:HD22	2.15	0.47
2:CD:212:THR:HG22	2:CD:213:MET:N	2.30	0.47
2:C1:115:ASN:HB2	3:DO:189:THR:HG22	1.96	0.47
2:CQ:207:GLN:HB3	3:DY:196:ILE:CG2	116.80	0.47
2:CG:207:GLN:HB3	3:EB:196:ILE:CG2	2.45	0.47
2:C0:212:THR:HG23	3:DQ:188:LEU:HD22	1.96	0.47
2:C6:115:ASN:HB2	3:DE:189:THR:HG22	1.96	0.47
2:CB:207:GLN:HB3	3:DT:196:ILE:CG2	275.92	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
1:AH:17:HIS:O	2:CN:48:SER:HA	225.32	0.47
1:AI:17:HIS:O	2:CH:48:SER:HA	2.14	0.47
3:D9:157:ASN:O	3:D9:159:PRO:HD3	2.15	0.47
3:DK:160:TYR:HD1	3:DK:161:SER:N	2.13	0.47
3:DO:160:TYR:HD1	3:DO:161:SER:N	2.13	0.47
3:DX:157:ASN:O	3:DX:159:PRO:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:17:HIS:O	2:C3:48:SER:HA	2.14	0.47
3:DZ:160:TYR:HD1	3:DZ:161:SER:N	2.13	0.47
3:DU:157:ASN:O	3:DU:159:PRO:HD3	2.15	0.47
3:ED:160:TYR:HD1	3:ED:161:SER:N	2.13	0.47
2:C6:49:ASP:HA	2:C6:50:PRO:HD2	1.81	0.47
3:D2:157:ASN:O	3:D2:159:PRO:HD3	2.14	0.47
2:C5:49:ASP:HA	2:C5:50:PRO:HD2	1.80	0.47
3:D6:101:ARG:HD2	3:D6:165:ASP:O	2.14	0.47
1:AC:137:GLY:HA2	1:AD:38:PHE:CD1	2.48	0.47
1:AE:143:VAL:H	3:DA:14:PHE:CB	2.28	0.47
1:AG:84:LEU:CD2	1:AG:209:LEU:HD11	2.45	0.47
1:AI:143:VAL:H	3:DJ:14:PHE:CB	2.28	0.47
1:AK:120:GLN:HB2	1:AK:129:ARG:HD3	1.96	0.47
1:AL:151:SER:C	1:AL:153:ALA:H	2.19	0.47
1:AM:139:SER:HA	1:AM:140:PRO:HD3	1.62	0.47
1:AM:151:SER:C	1:AM:153:ALA:H	2.19	0.47
1:AO:139:SER:HA	1:AO:140:PRO:HD3	1.62	0.47
1:AO:151:SER:C	1:AO:153:ALA:H	2.19	0.47
1:AO:84:LEU:CD2	1:AO:209:LEU:HD11	2.45	0.47
1:AR:84:LEU:CD2	1:AR:209:LEU:HD11	2.45	0.47
1:BC:151:SER:C	1:BC:153:ALA:H	2.19	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
3:DI:25:LEU:HD21	3:DJ:15:MET:HG2	1.97	0.47
3:DM:25:LEU:HD21	3:DN:15:MET:CG	2.45	0.47
3:DM:44:ILE:HG23	3:DM:45:ASP:N	2.30	0.47
3:D4:15:MET:CG	3:D8:25:LEU:HD21	2.45	0.47
3:D9:44:ILE:HG23	3:D9:45:ASP:N	2.29	0.47
1:BG:143:VAL:H	3:ED:14:PHE:CB	2.28	0.47
3:EE:19:PRO:HG3	4:FX:17:ASN:ND2	195.10	0.47
3:DJ:220:VAL:HG12	3:DJ:221:ASP:O	2.15	0.47
3:DG:220:VAL:HG12	3:DG:221:ASP:O	2.15	0.47
3:DK:220:VAL:HG12	3:DK:221:ASP:O	2.15	0.47
1:A0:120:GLN:HB2	1:A0:129:ARG:HD3	1.96	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
1:A6:112:PRO:HB2	3:D8:223:PRO:HB3	1.97	0.47
1:A5:187:LEU:HD22	1:A5:188:PRO:N	2.30	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
3:EC:220:VAL:HG12	3:EC:221:ASP:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:58:LEU:HB3	2:CB:59:SER:H	1.65	0.47
1:BH:103:TRP:HB2	1:BH:198:THR:HG23	1.96	0.47
2:C2:58:LEU:HB3	2:C2:59:SER:H	1.65	0.47
2:CQ:152:TYR:HB2	2:CQ:197:LEU:HD22	1.97	0.47
2:CM:152:TYR:C	2:CM:152:TYR:CD1	2.88	0.47
2:CJ:76:GLY:HA2	2:CJ:197:LEU:HD21	1.97	0.47
2:CT:152:TYR:CD1	2:CT:152:TYR:C	2.88	0.47
3:DT:53:PHE:HB3	3:DT:60:PRO:HB2	1.96	0.47
2:C9:152:TYR:CD1	2:C9:152:TYR:C	2.88	0.47
2:CY:226:LEU:CD2	3:DU:126:PRO:HG2	2.36	0.47
3:DZ:108:PHE:O	3:DZ:153:ALA:HA	2.15	0.47
2:C4:76:GLY:HA2	2:C4:197:LEU:HD21	1.97	0.47
2:CS:76:GLY:HA2	2:CS:197:LEU:HD21	1.97	0.47
1:AH:220:CYS:HA	1:AH:221:PRO:HD2	1.82	0.47
1:AH:30:VAL:HG13	1:AH:218:MET:HE2	1.97	0.47
3:DB:108:PHE:O	3:DB:153:ALA:HA	2.15	0.47
2:CC:76:GLY:HA2	2:CC:197:LEU:HD21	1.97	0.47
1:A8:170:PHE:CD2	1:A8:222:ARG:CZ	2.87	0.47
2:C8:84:PRO:HD3	2:C8:108:TRP:CZ2	2.49	0.47
2:C7:84:PRO:HG2	2:C7:88:LEU:HG	1.97	0.47
2:CX:84:PRO:HG3	2:CX:108:TRP:CH2	2.50	0.47
2:CI:84:PRO:HG2	2:CI:88:LEU:HG	1.97	0.47
2:C4:84:PRO:HG3	2:C4:108:TRP:CH2	2.50	0.47
2:CR:75:HIS:NE2	3:DR:59:LYS:HB3	2.30	0.47
2:CH:84:PRO:HD3	2:CH:108:TRP:CZ2	2.49	0.47
2:CQ:75:HIS:NE2	3:DQ:59:LYS:HB3	2.30	0.47
1:AK:46:SER:HB2	1:AK:197:LEU:O	2.15	0.47
1:AO:46:SER:HB2	1:AO:197:LEU:O	2.15	0.47
1:A5:46:SER:HB2	1:A5:197:LEU:O	2.15	0.47
1:A7:46:SER:HB2	1:A7:197:LEU:O	2.15	0.47
1:AP:46:SER:HB2	1:AP:197:LEU:O	2.15	0.47
3:D2:70:ASP:HA	3:D2:135:ARG:HH12	1.79	0.47
3:D0:70:ASP:HA	3:D0:135:ARG:HH12	1.79	0.47
3:DH:110:PHE:HB3	3:DH:148:VAL:HG11	1.97	0.47
2:CK:23:ILE:H	2:CK:23:ILE:HD12	1.80	0.47
1:AV:225:PRO:HA	1:AV:226:PRO:HD2	1.88	0.47
2:CC:36:TYR:CE2	2:CC:130:PRO:CG	2.98	0.47
3:DW:122:VAL:HA	3:DW:185:VAL:HA	1.97	0.47
3:EA:122:VAL:HA	3:EA:185:VAL:HA	1.97	0.47
3:DB:122:VAL:HG22	3:DB:123:ALA:N	2.30	0.47
3:DS:122:VAL:HG22	3:DS:123:ALA:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:122:VAL:HA	3:DZ:185:VAL:HA	1.97	0.47
3:DZ:122:VAL:HG22	3:DZ:123:ALA:N	2.30	0.47
3:D5:122:VAL:HG22	3:D5:123:ALA:N	2.30	0.47
3:DA:122:VAL:HG22	3:DA:123:ALA:N	2.30	0.47
3:DL:122:VAL:HG22	3:DL:123:ALA:N	2.30	0.47
3:DC:122:VAL:HG22	3:DC:123:ALA:N	2.30	0.47
1:AT:128:VAL:HG11	1:AQ:89:LYS:HG2	1.96	0.47
1:AP:128:VAL:HG11	1:AQ:89:LYS:HG2	1.96	0.47
1:A9:149:SER:C	1:A9:151:SER:H	2.18	0.47
3:DF:84:GLU:N	3:DF:84:GLU:OE1	2.48	0.47
3:DS:62:PHE:CE2	3:DS:204:VAL:HG11	2.50	0.47
1:AI:22:VAL:C	1:AI:24:MET:H	2.18	0.47
1:AH:22:VAL:C	1:AH:24:MET:H	2.18	0.47
3:DK:62:PHE:CE2	3:DK:204:VAL:HG11	2.50	0.47
2:CH:207:GLN:HB3	3:DN:196:ILE:CG2	275.92	0.46
2:CH:216:ALA:HA	2:CH:217:PRO:HD3	1.78	0.46
3:DN:117:LYS:O	3:DN:191:LEU:HD22	2.15	0.46
2:CR:207:GLN:HB3	3:EE:196:ILE:CG2	2.45	0.46
2:CT:212:THR:HG22	2:CT:213:MET:N	2.30	0.46
2:CU:212:THR:HG22	2:CU:213:MET:N	2.30	0.46
2:CQ:212:THR:HG23	3:DP:188:LEU:HD22	116.59	0.46
2:CQ:115:ASN:HB2	3:DY:189:THR:HG22	114.90	0.46
2:CA:207:GLN:HB3	3:DW:196:ILE:CG2	2.45	0.46
2:C3:207:GLN:HB3	3:DU:196:ILE:CG2	2.45	0.46
2:CB:115:ASN:HB2	3:DT:189:THR:HG22	260.66	0.46
2:CS:212:THR:HG23	3:DC:188:LEU:HD22	256.98	0.46
2:CF:207:GLN:HB3	3:DV:196:ILE:CG2	187.01	0.46
1:AL:17:HIS:O	2:CM:48:SER:HA	92.69	0.46
3:D9:101:ARG:HD2	3:D9:165:ASP:O	2.14	0.46
3:D3:157:ASN:O	3:D3:159:PRO:HD3	2.14	0.46
3:DY:101:ARG:HD2	3:DY:165:ASP:O	2.14	0.46
1:A5:17:HIS:O	2:C5:48:SER:HA	2.14	0.46
1:A8:151:SER:C	1:A8:153:ALA:H	2.19	0.46
1:AG:87:GLN:O	1:AG:88:PHE:CB	2.62	0.46
1:AK:121:LEU:HD13	1:AK:121:LEU:C	2.36	0.46
1:AK:84:LEU:CD2	1:AK:209:LEU:HD11	2.45	0.46
1:AN:151:SER:C	1:AN:153:ALA:H	2.19	0.46
1:AQ:120:GLN:HB2	1:AQ:129:ARG:HD3	1.96	0.46
1:AQ:84:LEU:CD2	1:AQ:209:LEU:HD11	2.45	0.46
1:AR:120:GLN:HB2	1:AR:129:ARG:HD3	1.96	0.46
1:AR:37:PHE:CD1	1:AR:212:ARG:HB2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:84:LEU:CD2	1:AX:209:LEU:HD11	2.45	0.46
1:BB:143:VAL:H	3:DR:14:PHE:CB	145.38	0.46
1:BC:101:PHE:CD2	1:BC:143:VAL:CG1	2.91	0.46
1:BE:101:PHE:O	1:BE:199:SER:CB	2.62	0.46
3:DP:25:LEU:HD21	3:DQ:15:MET:CG	2.44	0.46
3:DI:44:ILE:HG23	3:DI:45:ASP:N	2.30	0.46
3:DU:44:ILE:HG23	3:DU:45:ASP:N	2.30	0.46
1:A3:143:VAL:H	3:D5:14:PHE:CB	2.28	0.46
3:DB:220:VAL:HG12	3:DB:221:ASP:O	2.15	0.46
3:DM:220:VAL:HG12	3:DM:221:ASP:O	2.15	0.46
1:AK:112:PRO:HB2	3:DN:223:PRO:HB3	72.90	0.46
3:D2:25:LEU:HD21	3:D3:15:MET:CG	2.45	0.46
4:F1:30:TYR:CD1	4:F1:30:TYR:N	2.81	0.46
1:AY:149:SER:C	1:AY:151:SER:H	2.18	0.46
1:AZ:84:LEU:CD2	1:AZ:209:LEU:HD11	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
1:A5:156:PHE:CG	3:D6:25:LEU:HD12	2.49	0.46
3:ED:220:VAL:HG12	3:ED:221:ASP:O	2.15	0.46
2:CL:134:HIS:HB3	2:CL:135:THR:H	1.46	0.46
1:BA:113:THR:O	1:BA:133:LEU:HD12	2.14	0.46
1:AV:103:TRP:HB2	1:AV:198:THR:HG23	1.96	0.46
1:BC:103:TRP:HB2	1:BC:198:THR:HG23	1.96	0.46
3:EE:108:PHE:O	3:EE:153:ALA:HA	2.15	0.46
2:CG:152:TYR:HB2	2:CG:197:LEU:HD22	1.98	0.46
3:DG:108:PHE:O	3:DG:153:ALA:HA	2.15	0.46
3:DR:108:PHE:O	3:DR:153:ALA:HA	2.15	0.46
2:CZ:152:TYR:HB2	2:CZ:197:LEU:HD22	1.97	0.46
1:A7:170:PHE:CD2	1:A7:222:ARG:CZ	2.87	0.46
2:C0:76:GLY:HA2	2:C0:197:LEU:HD21	1.97	0.46
2:C6:84:PRO:HD3	2:C6:108:TRP:CZ2	2.49	0.46
2:CG:84:PRO:HG2	2:CG:88:LEU:HG	1.97	0.46
2:CY:84:PRO:HG3	2:CY:108:TRP:CH2	2.50	0.46
2:C6:75:HIS:NE2	3:D6:59:LYS:HB3	2.30	0.46
2:C7:75:HIS:NE2	3:D7:59:LYS:HB3	2.30	0.46
3:DX:56:ILE:CG1	3:DX:74:PHE:CE1	2.98	0.46
2:CB:75:HIS:NE2	3:DB:59:LYS:HB3	2.30	0.46
1:BE:46:SER:HB2	1:BE:197:LEU:O	2.15	0.46
3:DL:110:PHE:HB3	3:DL:148:VAL:HG11	1.96	0.46
2:CO:23:ILE:HD12	2:CO:23:ILE:H	1.80	0.46
2:CU:23:ILE:H	2:CU:23:ILE:HD12	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:23:ILE:HD12	2:CW:23:ILE:H	1.80	0.46
2:CI:23:ILE:HD12	2:CI:23:ILE:H	1.80	0.46
2:CZ:23:ILE:H	2:CZ:23:ILE:HD12	1.80	0.46
2:CU:36:TYR:CE2	2:CU:130:PRO:CG	2.98	0.46
2:CO:129:VAL:HA	2:CO:130:PRO:HD3	1.78	0.46
3:DG:122:VAL:HA	3:DG:185:VAL:HA	1.97	0.46
3:DQ:122:VAL:HA	3:DQ:185:VAL:HA	1.97	0.46
3:DN:122:VAL:HA	3:DN:185:VAL:HA	1.97	0.46
3:DK:122:VAL:HG22	3:DK:123:ALA:N	2.30	0.46
3:DK:122:VAL:HA	3:DK:185:VAL:HA	1.97	0.46
3:DM:122:VAL:HA	3:DM:185:VAL:HA	1.97	0.46
3:DP:122:VAL:HG22	3:DP:123:ALA:N	2.30	0.46
3:DY:122:VAL:HG22	3:DY:123:ALA:N	2.30	0.46
3:DO:122:VAL:HA	3:DO:185:VAL:HA	1.97	0.46
3:D4:122:VAL:HG22	3:D4:123:ALA:N	2.30	0.46
3:D9:122:VAL:HG22	3:D9:123:ALA:N	2.30	0.46
3:EC:122:VAL:HG22	3:EC:123:ALA:N	2.30	0.46
3:DF:122:VAL:HA	3:DF:185:VAL:HA	1.97	0.46
2:C3:216:ALA:HA	2:C3:217:PRO:HD3	1.78	0.46
1:AA:237:HIS:HB2	3:DA:81:SER:O	2.14	0.46
1:BG:128:VAL:HG11	1:BH:89:LYS:HG2	1.96	0.46
1:A0:89:LYS:HG2	1:AZ:128:VAL:HG11	1.96	0.46
1:AP:237:HIS:HB2	3:DP:81:SER:O	2.14	0.46
3:DV:62:PHE:CE2	3:DV:204:VAL:HG11	2.50	0.46
3:D3:62:PHE:CE2	3:D3:204:VAL:HG11	2.50	0.46
3:DN:62:PHE:CE2	3:DN:204:VAL:HG11	2.50	0.46
3:DW:62:PHE:CE2	3:DW:204:VAL:HG11	2.50	0.46
1:AW:22:VAL:C	1:AW:24:MET:H	2.18	0.46
3:DJ:36:VAL:HA	3:DJ:37:PRO:HD3	1.53	0.46
1:AG:22:VAL:C	1:AG:24:MET:H	2.18	0.46
3:D1:62:PHE:CE2	3:D1:204:VAL:HG11	2.50	0.46
2:CR:212:THR:HG22	2:CR:213:MET:N	2.30	0.46
2:CV:207:GLN:HB3	3:DD:196:ILE:CG2	162.41	0.46
2:C0:212:THR:HG22	2:C0:213:MET:N	2.30	0.46
2:CZ:212:THR:HG22	2:CZ:213:MET:N	2.30	0.46
3:DQ:117:LYS:O	3:DQ:191:LEU:HD22	2.15	0.46
3:DL:117:LYS:O	3:DL:191:LEU:HD22	2.15	0.46
2:CY:212:THR:HG22	2:CY:213:MET:N	2.30	0.46
3:DF:117:LYS:O	3:DF:191:LEU:HD22	2.15	0.46
2:CS:212:THR:HG23	3:EA:188:LEU:HD22	157.79	0.46
2:CP:207:GLN:HB3	3:D0:196:ILE:CG2	98.05	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:212:THR:HG22	2:CF:213:MET:N	2.30	0.46
3:EC:117:LYS:O	3:EC:191:LEU:HD22	2.15	0.46
1:AD:17:HIS:O	2:CE:48:SER:HA	92.69	0.46
1:AF:17:HIS:O	2:CJ:48:SER:HA	2.14	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
1:AR:17:HIS:O	2:CQ:48:SER:HA	2.14	0.46
3:D7:160:TYR:HD1	3:D7:161:SER:N	2.13	0.46
1:A9:84:LEU:CD2	1:A9:209:LEU:HD11	2.45	0.46
1:AA:121:LEU:HD13	1:AA:121:LEU:C	2.36	0.46
1:AE:121:LEU:C	1:AE:121:LEU:HD13	2.36	0.46
1:AG:151:SER:C	1:AG:153:ALA:H	2.19	0.46
1:AH:84:LEU:CD2	1:AH:209:LEU:HD11	2.45	0.46
1:AJ:151:SER:C	1:AJ:153:ALA:H	2.19	0.46
1:AM:84:LEU:CD2	1:AM:209:LEU:HD11	2.45	0.46
1:AP:149:SER:C	1:AP:151:SER:H	2.18	0.46
1:AP:151:SER:C	1:AP:153:ALA:H	2.19	0.46
1:AQ:121:LEU:C	1:AQ:121:LEU:HD13	2.36	0.46
1:AR:151:SER:C	1:AR:153:ALA:H	2.19	0.46
1:AS:120:GLN:HB2	1:AS:129:ARG:HD3	1.96	0.46
1:AS:151:SER:C	1:AS:153:ALA:H	2.19	0.46
1:BD:143:VAL:H	3:DO:14:PHE:CB	220.37	0.46
1:BE:120:GLN:HB2	1:BE:129:ARG:HD3	1.96	0.46
1:BE:84:LEU:CD2	1:BE:209:LEU:HD11	2.45	0.46
1:AM:157:SER:CB	3:DO:24:PRO:HA	39.10	0.46
3:ED:25:LEU:HD21	3:EE:15:MET:CG	2.45	0.46
3:D6:44:ILE:HG23	3:D6:45:ASP:N	2.29	0.46
1:A3:84:LEU:CD2	1:A3:209:LEU:HD11	2.45	0.46
1:A6:120:GLN:HB2	1:A6:129:ARG:HD3	1.96	0.46
3:D4:15:MET:HG2	3:D8:25:LEU:HD21	1.97	0.46
3:EB:220:VAL:HG12	3:EB:221:ASP:O	2.15	0.46
1:A5:84:LEU:CD2	1:A5:209:LEU:HD11	2.45	0.46
3:DO:220:VAL:HG12	3:DO:221:ASP:O	2.15	0.46
1:AZ:121:LEU:HD13	1:AZ:121:LEU:C	2.36	0.46
3:EA:220:VAL:HG12	3:EA:221:ASP:O	2.15	0.46
3:DZ:220:VAL:HG12	3:DZ:221:ASP:O	2.15	0.46
3:D4:220:VAL:HG12	3:D4:221:ASP:O	2.15	0.46
3:DQ:220:VAL:HG12	3:DQ:221:ASP:O	2.15	0.46
1:BH:187:LEU:HD22	1:BH:188:PRO:N	2.30	0.46
3:DV:220:VAL:HG12	3:DV:221:ASP:O	2.15	0.46
1:A8:103:TRP:HB2	1:A8:198:THR:HG23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:113:THR:O	1:A9:133:LEU:HD12	2.14	0.46
2:CP:152:TYR:HB2	2:CP:197:LEU:HD22	1.97	0.46
2:CM:152:TYR:HB2	2:CM:197:LEU:HD22	1.98	0.46
3:DY:108:PHE:O	3:DY:153:ALA:HA	2.16	0.46
3:DN:108:PHE:O	3:DN:153:ALA:HA	2.15	0.46
2:CV:76:GLY:HA2	2:CV:197:LEU:HD21	1.97	0.46
3:DF:108:PHE:O	3:DF:153:ALA:HA	2.15	0.46
2:CU:152:TYR:HB2	2:CU:197:LEU:HD22	1.98	0.46
3:EA:53:PHE:HB3	3:EA:60:PRO:HB2	1.96	0.46
2:CL:76:GLY:HA2	2:CL:197:LEU:HD21	1.97	0.46
3:DX:108:PHE:O	3:DX:153:ALA:HA	2.15	0.46
2:CG:76:GLY:HA2	2:CG:197:LEU:HD21	1.97	0.46
2:CR:76:GLY:HA2	2:CR:197:LEU:HD21	1.97	0.46
2:CZ:76:GLY:HA2	2:CZ:197:LEU:HD21	1.97	0.46
2:CS:152:TYR:HB2	2:CS:197:LEU:HD22	1.97	0.46
3:DS:108:PHE:O	3:DS:153:ALA:HA	2.16	0.46
1:AB:30:VAL:HG13	1:AB:218:MET:HE2	1.97	0.46
3:D1:108:PHE:O	3:D1:153:ALA:HA	2.15	0.46
2:CD:152:TYR:HB2	2:CD:197:LEU:HD22	1.97	0.46
1:AT:220:CYS:HA	1:AT:221:PRO:HD2	1.82	0.46
2:CA:84:PRO:HG3	2:CA:108:TRP:CH2	2.50	0.46
2:CM:84:PRO:HG2	2:CM:88:LEU:HG	1.97	0.46
2:CQ:84:PRO:HG3	2:CQ:108:TRP:CH2	2.50	0.46
2:CB:180:PRO:HD2	2:CB:189:HIS:HE1	1.76	0.46
2:CV:84:PRO:HG3	2:CV:108:TRP:CH2	2.50	0.46
2:C4:84:PRO:HG2	2:C4:88:LEU:HG	1.97	0.46
2:CC:75:HIS:NE2	3:DC:59:LYS:HB3	2.31	0.46
3:DE:56:ILE:CG1	3:DE:74:PHE:CE1	2.98	0.46
1:A9:239:PHE:CD1	3:DA:170:TYR:CD2	240.00	0.46
1:A6:239:PHE:CD1	3:D7:170:TYR:CD2	2.96	0.46
1:AZ:46:SER:HB2	1:AZ:197:LEU:O	2.15	0.46
1:BG:46:SER:HB2	1:BG:197:LEU:O	2.15	0.46
1:AZ:43:LEU:N	1:AZ:43:LEU:CD2	2.74	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:A2:43:LEU:N	1:A2:43:LEU:CD2	2.74	0.46
1:A9:46:SER:HB2	1:A9:197:LEU:O	2.15	0.46
3:DX:70:ASP:HA	3:DX:135:ARG:HH12	1.79	0.46
3:ED:70:ASP:HA	3:ED:135:ARG:HH12	1.79	0.46
2:C6:23:ILE:HD12	2:C6:23:ILE:H	1.80	0.46
2:CB:36:TYR:CE2	2:CB:130:PRO:CG	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:36:TYR:CE2	2:CE:130:PRO:CG	2.98	0.46
2:C6:36:TYR:CE2	2:C6:130:PRO:CG	2.98	0.46
2:CW:36:TYR:CE2	2:CW:130:PRO:CG	2.98	0.46
3:DQ:122:VAL:HG22	3:DQ:123:ALA:N	2.30	0.46
3:DE:122:VAL:HA	3:DE:185:VAL:HA	1.97	0.46
3:DN:122:VAL:HG22	3:DN:123:ALA:N	2.30	0.46
3:DB:122:VAL:HA	3:DB:185:VAL:HA	1.97	0.46
3:DC:122:VAL:HA	3:DC:185:VAL:HA	1.97	0.46
1:AD:22:VAL:C	1:AD:24:MET:H	2.18	0.46
3:DE:62:PHE:CE2	3:DE:204:VAL:HG11	2.50	0.46
3:DP:62:PHE:CE2	3:DP:204:VAL:HG11	2.50	0.46
1:AF:22:VAL:C	1:AF:24:MET:H	2.18	0.46
1:BD:171:TYR:N	1:BD:185:ASN:OD1	2.45	0.46
2:CK:42:ARG:HA	2:CK:43:PRO:HD2	1.64	0.46
2:C1:42:ARG:HA	2:C1:43:PRO:HD2	1.64	0.46
3:DZ:84:GLU:OE1	3:DZ:84:GLU:N	2.48	0.46
3:D8:84:GLU:OE1	3:D8:84:GLU:N	2.48	0.46
3:EA:84:GLU:N	3:EA:84:GLU:OE1	2.48	0.46
3:EB:84:GLU:N	3:EB:84:GLU:OE1	2.48	0.46
3:D5:84:GLU:OE1	3:D5:84:GLU:N	2.48	0.46
1:BH:22:VAL:C	1:BH:24:MET:H	2.18	0.46
2:CW:207:GLN:HB3	3:DJ:196:ILE:CG2	2.45	0.46
3:DD:117:LYS:O	3:DD:191:LEU:HD22	2.15	0.46
2:CR:207:GLN:HB3	3:DI:196:ILE:CG2	172.46	0.46
3:DM:120:PHE:HD2	3:DM:146:TRP:CH2	2.34	0.46
2:CU:115:ASN:HB2	3:DG:189:THR:HG22	247.86	0.46
2:CU:207:GLN:HB3	3:D5:196:ILE:CG2	275.25	0.46
2:CO:207:GLN:HB3	3:DP:196:ILE:CG2	2.45	0.46
2:C6:212:THR:HG23	3:DE:188:LEU:HD22	1.96	0.46
2:CY:115:ASN:HB2	3:DZ:189:THR:HG22	1.96	0.46
2:CB:207:GLN:HB3	3:DF:196:ILE:CG2	160.42	0.46
2:CS:115:ASN:HB2	3:DC:189:THR:HG22	260.66	0.46
2:CP:115:ASN:HB2	3:D0:189:THR:HG22	93.66	0.46
1:AL:17:HIS:O	2:CK:48:SER:HA	2.14	0.46
1:AD:17:HIS:O	2:CC:48:SER:HA	2.15	0.46
2:CS:49:ASP:HA	2:CS:50:PRO:HD2	1.80	0.46
3:DS:160:TYR:HD1	3:DS:161:SER:N	2.13	0.46
3:EE:160:TYR:HD1	3:EE:161:SER:N	2.13	0.46
1:A3:17:HIS:O	2:C8:48:SER:HA	2.14	0.46
3:D4:157:ASN:O	3:D4:159:PRO:HD3	2.14	0.46
2:CV:49:ASP:HA	2:CV:50:PRO:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:17:HIS:O	2:C7:48:SER:HA	2.14	0.46
1:AB:121:LEU:C	1:AB:121:LEU:HD13	2.36	0.46
1:AB:151:SER:C	1:AB:153:ALA:H	2.19	0.46
1:AD:87:GLN:O	1:AD:88:PHE:CB	2.62	0.46
1:AE:84:LEU:CD2	1:AE:209:LEU:HD11	2.45	0.46
1:AJ:121:LEU:C	1:AJ:121:LEU:HD13	2.36	0.46
1:AK:151:SER:C	1:AK:153:ALA:H	2.19	0.46
1:AO:121:LEU:HD13	1:AO:121:LEU:C	2.36	0.46
1:AW:84:LEU:CD2	1:AW:209:LEU:HD11	2.45	0.46
1:AX:121:LEU:C	1:AX:121:LEU:HD13	2.36	0.46
3:ED:25:LEU:HD21	3:EE:15:MET:HG2	1.97	0.46
3:D8:44:ILE:HG23	3:D8:45:ASP:N	2.30	0.46
1:A7:149:SER:C	1:A7:151:SER:H	2.18	0.46
1:A7:87:GLN:O	1:A7:88:PHE:CB	2.62	0.46
3:D7:25:LEU:HD21	3:D8:15:MET:HG2	1.97	0.46
1:A4:151:SER:C	1:A4:153:ALA:H	2.19	0.46
3:D4:25:LEU:HD21	3:D5:15:MET:CG	2.44	0.46
3:DT:220:VAL:HG12	3:DT:221:ASP:O	2.15	0.46
1:AN:112:PRO:HB2	3:DC:223:PRO:HB3	230.00	0.46
3:D8:220:VAL:HG12	3:D8:221:ASP:O	2.15	0.46
1:A5:121:LEU:HD13	1:A5:121:LEU:C	2.36	0.46
1:AT:112:PRO:HB2	3:DV:223:PRO:HB3	1.98	0.46
1:BG:112:PRO:HB2	3:ED:223:PRO:HB3	1.98	0.46
1:BA:103:TRP:HB2	1:BA:198:THR:HG23	1.96	0.46
2:CN:152:TYR:HB2	2:CN:197:LEU:HD22	1.98	0.46
3:DJ:108:PHE:O	3:DJ:153:ALA:HA	2.15	0.46
2:CX:76:GLY:HA2	2:CX:197:LEU:HD21	1.97	0.46
2:C4:13:ARG:HA	2:C4:13:ARG:HD3	1.72	0.46
2:CT:13:ARG:HA	2:CT:13:ARG:HD3	1.72	0.46
2:CA:152:TYR:HB2	2:CA:197:LEU:HD22	1.97	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:D8:108:PHE:O	3:D8:153:ALA:HA	2.15	0.46
2:CT:84:PRO:HG2	2:CT:88:LEU:HG	1.97	0.46
2:CF:84:PRO:HD3	2:CF:108:TRP:CZ2	2.49	0.46
2:CC:84:PRO:HG2	2:CC:88:LEU:HG	1.97	0.46
2:CA:75:HIS:NE2	3:DA:59:LYS:HB3	2.31	0.46
2:CW:180:PRO:HD2	2:CW:189:HIS:HE1	1.76	0.46
2:CH:75:HIS:NE2	3:DH:59:LYS:HB3	2.31	0.46
3:DH:56:ILE:CG1	3:DH:74:PHE:CE1	2.98	0.46
2:CE:75:HIS:NE2	3:DE:59:LYS:HB3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:163:LEU:HD21	2:CW:169:SER:C	2.36	0.46
1:A6:46:SER:HB2	1:A6:197:LEU:O	2.15	0.46
1:A2:46:SER:HB2	1:A2:197:LEU:O	2.15	0.46
1:AU:46:SER:HB2	1:AU:197:LEU:O	2.15	0.46
1:AA:46:SER:HB2	1:AA:197:LEU:O	2.15	0.46
1:BG:43:LEU:CD2	1:BG:43:LEU:N	2.74	0.46
1:AF:43:LEU:CD2	1:AF:43:LEU:N	2.74	0.46
1:BA:46:SER:HB2	1:BA:197:LEU:O	2.15	0.46
1:A8:46:SER:HB2	1:A8:197:LEU:O	2.15	0.46
1:A3:43:LEU:CD2	1:A3:43:LEU:N	2.74	0.46
1:AK:242:ASN:ND2	1:AO:110:GLY:H	2.12	0.46
1:AK:110:GLY:H	1:AL:242:ASN:ND2	2.12	0.46
3:D1:110:PHE:HB3	3:D1:148:VAL:HG11	1.96	0.46
3:DY:110:PHE:HB3	3:DY:148:VAL:HG11	1.97	0.46
3:DG:110:PHE:HB3	3:DG:148:VAL:HG11	1.96	0.46
2:C1:23:ILE:H	2:C1:23:ILE:HD12	1.80	0.46
2:C2:36:TYR:CE2	2:C2:130:PRO:CG	2.98	0.46
2:C9:129:VAL:HA	2:C9:130:PRO:HD3	1.78	0.46
3:EE:122:VAL:HA	3:EE:185:VAL:HA	1.97	0.46
3:D8:122:VAL:HA	3:D8:185:VAL:HA	1.97	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
1:BA:237:HIS:HB2	3:DP:81:SER:O	130.33	0.46
1:AU:27:HIS:O	1:AU:33:LEU:HD21	2.13	0.46
1:AE:22:VAL:C	1:AE:24:MET:H	2.18	0.46
1:A4:22:VAL:C	1:A4:24:MET:H	2.18	0.46
1:A5:22:VAL:C	1:A5:24:MET:H	2.18	0.46
3:DQ:62:PHE:CE2	3:DQ:204:VAL:HG11	2.50	0.46
3:DA:62:PHE:CE2	3:DA:204:VAL:HG11	2.50	0.46
3:DV:36:VAL:HA	3:DV:37:PRO:HD3	1.53	0.46
1:AJ:22:VAL:C	1:AJ:24:MET:H	2.18	0.46
2:CH:115:ASN:HB2	3:DN:189:THR:HG22	260.66	0.46
2:CW:207:GLN:HB3	3:DS:196:ILE:CG2	269.20	0.46
2:C7:115:ASN:HB2	3:DM:189:THR:HG22	153.12	0.46
3:DK:120:PHE:HD2	3:DK:146:TRP:CH2	2.34	0.46
3:D5:117:LYS:O	3:D5:191:LEU:HD22	2.15	0.46
2:CD:115:ASN:HD22	3:D4:190:ALA:C	148.29	0.46
2:CD:207:GLN:HB3	3:D7:196:ILE:CG2	2.45	0.46
2:CO:212:THR:HG23	3:DP:188:LEU:HD22	1.96	0.46
3:DW:120:PHE:HD2	3:DW:146:TRP:CH2	2.34	0.46
3:D2:117:LYS:O	3:D2:191:LEU:HD22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:212:THR:HG22	2:C3:213:MET:N	2.30	0.46
3:DC:120:PHE:HD2	3:DC:146:TRP:CH2	2.34	0.46
3:DV:117:LYS:O	3:DV:191:LEU:HD22	2.15	0.46
1:AE:17:HIS:O	2:CD:48:SER:HA	2.14	0.46
1:AA:17:HIS:O	2:CE:48:SER:HA	2.14	0.46
3:DI:160:TYR:HD1	3:DI:161:SER:N	2.13	0.46
3:DM:103:SER:HB2	3:DM:159:PRO:HA	1.95	0.46
3:EB:160:TYR:HD1	3:EB:161:SER:N	2.13	0.46
2:CT:46:THR:CG2	3:EB:165:ASP:HA	189.01	0.46
3:DU:160:TYR:HD1	3:DU:161:SER:N	2.13	0.46
1:AZ:17:HIS:O	2:CZ:48:SER:HA	2.14	0.46
1:AC:121:LEU:HD13	1:AC:121:LEU:C	2.36	0.46
1:AC:151:SER:C	1:AC:153:ALA:H	2.19	0.46
1:AD:151:SER:C	1:AD:153:ALA:H	2.19	0.46
1:AD:84:LEU:CD2	1:AD:209:LEU:HD11	2.45	0.46
1:AI:137:GLY:HA2	1:AJ:38:PHE:CD1	2.48	0.46
1:AI:87:GLN:O	1:AI:88:PHE:CB	2.62	0.46
1:AL:143:VAL:H	3:DM:14:PHE:CB	2.28	0.46
1:AM:121:LEU:HD13	1:AM:121:LEU:C	2.36	0.46
1:AN:121:LEU:HD13	1:AN:121:LEU:C	2.36	0.46
1:AO:45:LEU:HB2	1:AO:202:HIS:HA	1.98	0.46
1:AQ:143:VAL:H	3:DR:14:PHE:CB	2.28	0.46
1:AS:84:LEU:CD2	1:AS:209:LEU:HD11	2.45	0.46
1:AV:121:LEU:C	1:AV:121:LEU:HD13	2.36	0.46
1:BB:121:LEU:C	1:BB:121:LEU:HD13	2.36	0.46
1:BB:84:LEU:CD2	1:BB:209:LEU:HD11	2.45	0.46
3:DN:25:LEU:HD21	3:DO:15:MET:HG2	1.97	0.46
1:A7:151:SER:C	1:A7:153:ALA:H	2.19	0.46
1:A3:101:PHE:O	1:A3:199:SER:OG	2.33	0.46
3:DD:220:VAL:HG12	3:DD:221:ASP:O	2.15	0.46
3:DP:220:VAL:HG12	3:DP:221:ASP:O	2.15	0.46
1:A0:84:LEU:CD2	1:A0:209:LEU:HD11	2.45	0.46
3:D0:25:LEU:HD21	3:D1:15:MET:HG2	1.97	0.46
1:AY:121:LEU:HD13	1:AY:121:LEU:C	2.36	0.46
1:BC:112:PRO:HB2	3:DS:223:PRO:HB3	163.13	0.46
3:D7:220:VAL:HG12	3:D7:221:ASP:O	2.15	0.46
1:AB:187:LEU:HD22	1:AB:188:PRO:N	2.30	0.46
1:AZ:112:PRO:HB2	3:D1:223:PRO:HB3	1.98	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:CH:152:TYR:HB2	2:CH:197:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:108:PHE:O	3:DH:153:ALA:HA	2.15	0.46
2:CV:152:TYR:HB2	2:CV:197:LEU:HD22	1.98	0.46
2:CU:76:GLY:HA2	2:CU:197:LEU:HD21	1.97	0.46
3:EA:108:PHE:O	3:EA:153:ALA:HA	2.16	0.46
3:DE:108:PHE:O	3:DE:153:ALA:HA	2.16	0.46
3:DD:108:PHE:O	3:DD:153:ALA:HA	2.15	0.46
2:C0:84:PRO:HG2	2:C0:88:LEU:HG	1.97	0.46
2:CQ:84:PRO:HG2	2:CQ:88:LEU:HG	1.97	0.46
2:C9:84:PRO:HD3	2:C9:108:TRP:CZ2	2.49	0.46
1:AO:165:ARG:HG2	2:CO:180:PRO:O	2.16	0.46
2:CG:180:PRO:HD2	2:CG:189:HIS:HE1	1.76	0.46
2:CG:163:LEU:HD21	2:CG:169:SER:C	2.36	0.46
2:CF:75:HIS:NE2	3:DF:59:LYS:HB3	2.30	0.46
2:CK:75:HIS:NE2	3:DK:59:LYS:HB3	2.31	0.46
2:C6:163:LEU:HD21	2:C6:169:SER:C	2.36	0.46
2:CE:163:LEU:HD21	2:CE:169:SER:C	2.36	0.46
2:CQ:163:LEU:HD21	2:CQ:169:SER:C	2.36	0.46
2:CD:75:HIS:NE2	3:DD:59:LYS:HB3	2.30	0.46
2:CN:163:LEU:HD21	2:CN:169:SER:C	2.36	0.46
2:CL:75:HIS:NE2	3:DL:59:LYS:HB3	2.30	0.46
1:BD:46:SER:HB2	1:BD:197:LEU:O	2.15	0.46
1:AL:46:SER:HB2	1:AL:197:LEU:O	2.15	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:AT:110:GLY:H	1:AU:242:ASN:ND2	2.12	0.46
1:A0:242:ASN:ND2	1:AZ:110:GLY:H	2.12	0.46
2:CV:23:ILE:H	2:CV:23:ILE:HD12	1.80	0.46
3:D3:110:PHE:HB3	3:D3:148:VAL:HG11	1.96	0.46
2:CH:36:TYR:CE2	2:CH:130:PRO:CG	2.98	0.46
2:CI:129:VAL:HA	2:CI:130:PRO:HD3	1.77	0.46
3:D2:122:VAL:HA	3:D2:185:VAL:HA	1.97	0.46
3:DI:122:VAL:HG22	3:DI:123:ALA:N	2.30	0.46
3:DO:122:VAL:HG22	3:DO:123:ALA:N	2.30	0.46
3:DT:122:VAL:HG22	3:DT:123:ALA:N	2.30	0.46
3:EB:122:VAL:HA	3:EB:185:VAL:HA	1.97	0.46
1:A6:128:VAL:HG11	1:A7:89:LYS:HG2	1.96	0.46
1:A9:22:VAL:C	1:A9:24:MET:H	2.18	0.46
3:DX:36:VAL:HA	3:DX:37:PRO:HD3	1.53	0.46
1:BC:45:LEU:HB2	1:BC:202:HIS:HA	1.98	0.46
1:BA:171:TYR:N	1:BA:185:ASN:OD1	2.45	0.46
3:DR:62:PHE:CE2	3:DR:204:VAL:HG11	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:62:PHE:CE2	3:EC:204:VAL:HG11	2.50	0.46
1:A2:171:TYR:N	1:A2:185:ASN:OD1	2.44	0.46
2:C8:42:ARG:HA	2:C8:43:PRO:HD2	1.65	0.46
3:DG:62:PHE:CE2	3:DG:204:VAL:HG11	2.50	0.46
1:AT:45:LEU:HB2	1:AT:202:HIS:HA	1.98	0.46
1:AW:171:TYR:N	1:AW:185:ASN:OD1	2.45	0.46
3:DY:62:PHE:CE2	3:DY:204:VAL:HG11	2.50	0.46
1:AP:22:VAL:C	1:AP:24:MET:H	2.18	0.46
3:DH:84:GLU:N	3:DH:84:GLU:OE1	2.48	0.46
2:CV:42:ARG:HA	2:CV:43:PRO:HD2	1.64	0.46
3:ED:36:VAL:HA	3:ED:37:PRO:HD3	1.53	0.46
2:C8:115:ASN:HB2	3:D9:189:THR:HG22	1.96	0.46
3:DJ:120:PHE:HD2	3:DJ:146:TRP:CH2	2.34	0.46
2:CI:207:GLN:HB3	3:DX:196:ILE:CG2	2.45	0.46
2:CJ:216:ALA:HA	2:CJ:217:PRO:HD3	1.78	0.46
2:CR:216:ALA:HA	2:CR:217:PRO:HD3	1.78	0.46
2:CV:207:GLN:HB3	3:DB:196:ILE:CG2	2.45	0.46
3:DD:120:PHE:HD2	3:DD:146:TRP:CH2	2.34	0.46
3:DI:120:PHE:HD2	3:DI:146:TRP:CH2	2.34	0.46
3:DH:120:PHE:HD2	3:DH:146:TRP:CH2	2.34	0.46
3:DH:117:LYS:O	3:DH:191:LEU:HD22	2.15	0.46
2:CU:115:ASN:HD22	3:D5:190:ALA:C	264.38	0.46
3:D5:120:PHE:HD2	3:D5:146:TRP:CH2	2.34	0.46
3:DG:120:PHE:HD2	3:DG:146:TRP:CH2	2.34	0.46
3:D4:120:PHE:HD2	3:D4:146:TRP:CH2	2.34	0.46
2:CQ:115:ASN:HD22	3:DY:190:ALA:C	117.12	0.46
2:CX:207:GLN:HB3	3:DR:196:ILE:CG2	167.13	0.46
3:DP:117:LYS:O	3:DP:191:LEU:HD22	2.15	0.46
3:DZ:117:LYS:O	3:DZ:191:LEU:HD22	2.15	0.46
3:DF:120:PHE:HD2	3:DF:146:TRP:CH2	2.34	0.46
2:CP:115:ASN:CA	3:D1:119:LYS:HZ3	2.29	0.46
2:CF:115:ASN:HB2	3:D6:189:THR:HG22	1.96	0.46
1:AB:17:HIS:O	2:CA:48:SER:HA	2.14	0.46
1:AO:17:HIS:O	2:CN:48:SER:HA	2.14	0.46
3:DE:103:SER:HB2	3:DE:159:PRO:HA	1.95	0.46
3:DN:103:SER:HB2	3:DN:159:PRO:HA	1.95	0.46
3:DO:103:SER:HB2	3:DO:159:PRO:HA	1.95	0.46
3:EA:103:SER:HB2	3:EA:159:PRO:HA	1.95	0.46
1:AV:17:HIS:O	2:CV:48:SER:HA	2.15	0.46
3:DW:160:TYR:HD1	3:DW:161:SER:N	2.13	0.46
1:A8:121:LEU:C	1:A8:121:LEU:HD13	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:84:LEU:CD2	1:A8:209:LEU:HD11	2.45	0.46
1:AF:101:PHE:CD2	1:AF:143:VAL:CG1	2.91	0.46
1:AG:121:LEU:HD13	1:AG:121:LEU:C	2.36	0.46
1:AN:143:VAL:H	3:DC:14:PHE:CB	228.24	0.46
1:AO:146:ILE:HG21	1:AO:146:ILE:HD13	1.74	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:BD:121:LEU:HD13	1:BD:121:LEU:C	2.36	0.46
1:BE:149:SER:C	1:BE:151:SER:H	2.18	0.46
1:BI:45:LEU:HB2	1:BI:202:HIS:HA	1.98	0.46
3:DV:25:LEU:HD21	3:DW:15:MET:HG2	1.97	0.46
1:A4:84:LEU:CD2	1:A4:209:LEU:HD11	2.45	0.46
3:DE:220:VAL:HG12	3:DE:221:ASP:O	2.15	0.46
1:AO:112:PRO:HB2	3:DK:223:PRO:HB3	1.98	0.46
1:A4:121:LEU:HD13	1:A4:121:LEU:C	2.36	0.46
1:AQ:112:PRO:HB2	3:DR:223:PRO:HB3	1.98	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
3:DY:220:VAL:HG12	3:DY:221:ASP:O	2.15	0.46
3:EE:220:VAL:HG12	3:EE:221:ASP:O	2.15	0.46
1:AE:187:LEU:HD22	1:AE:188:PRO:N	2.29	0.46
1:AX:112:PRO:HB2	3:DU:223:PRO:HB3	1.98	0.46
1:A7:103:TRP:HB2	1:A7:198:THR:HG23	1.96	0.46
3:DI:108:PHE:O	3:DI:153:ALA:HA	2.15	0.46
2:CN:76:GLY:HA2	2:CN:197:LEU:HD21	1.97	0.46
2:CE:152:TYR:HB2	2:CE:197:LEU:HD22	1.98	0.46
2:CR:152:TYR:HB2	2:CR:197:LEU:HD22	1.98	0.46
2:C9:76:GLY:HA2	2:C9:197:LEU:HD21	1.97	0.46
3:D4:108:PHE:O	3:D4:153:ALA:HA	2.15	0.46
2:CB:152:TYR:HB2	2:CB:197:LEU:HD22	1.97	0.46
3:DC:108:PHE:O	3:DC:153:ALA:HA	2.15	0.46
2:C6:152:TYR:HB2	2:C6:197:LEU:HD22	1.98	0.46
2:CO:84:PRO:HG3	2:CO:108:TRP:CH2	2.50	0.46
2:CW:134:HIS:HB3	2:CW:135:THR:H	1.46	0.46
1:AO:165:ARG:HG2	2:CS:180:PRO:O	92.57	0.46
1:AR:165:ARG:HG2	2:CR:180:PRO:O	2.16	0.46
2:CK:163:LEU:HD21	2:CK:169:SER:C	2.36	0.46
3:DF:56:ILE:CG1	3:DF:74:PHE:CE1	2.98	0.46
2:CZ:75:HIS:NE2	3:DZ:59:LYS:HB3	2.30	0.46
2:C1:75:HIS:NE2	3:D1:59:LYS:HB3	2.31	0.46
2:C7:163:LEU:HD21	2:C7:169:SER:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:84:PRO:HG2	2:C3:88:LEU:HG	1.97	0.46
2:CJ:163:LEU:HD21	2:CJ:169:SER:C	2.36	0.46
2:CO:163:LEU:HD21	2:CO:169:SER:C	2.36	0.46
2:C0:180:PRO:HD2	2:C0:189:HIS:HE1	1.77	0.46
1:AZ:165:ARG:HG2	2:C0:180:PRO:O	2.16	0.46
2:CS:163:LEU:HD21	2:CS:169:SER:C	2.36	0.46
2:CX:75:HIS:NE2	3:EE:59:LYS:HB3	191.52	0.46
1:BI:46:SER:HB2	1:BI:197:LEU:O	2.15	0.46
1:AB:46:SER:HB2	1:AB:197:LEU:O	2.15	0.46
1:AN:46:SER:HB2	1:AN:197:LEU:O	2.15	0.46
1:A3:46:SER:HB2	1:A3:197:LEU:O	2.15	0.46
1:AB:43:LEU:N	1:AB:43:LEU:CD2	2.74	0.46
1:AQ:46:SER:HB2	1:AQ:197:LEU:O	2.15	0.46
1:BB:43:LEU:CD2	1:BB:43:LEU:N	2.74	0.46
1:AJ:110:GLY:H	1:AK:242:ASN:ND2	269.46	0.46
2:CT:65:LYS:CB	3:DK:135:ARG:HH21	2.29	0.46
1:AQ:110:GLY:H	1:AR:242:ASN:ND2	2.12	0.46
3:DV:70:ASP:HA	3:DV:135:ARG:HH12	1.79	0.46
3:D6:110:PHE:HB3	3:D6:148:VAL:HG11	1.96	0.46
2:C8:36:TYR:CE2	2:C8:130:PRO:CG	2.98	0.46
3:D2:122:VAL:HG22	3:D2:123:ALA:N	2.30	0.46
3:DY:122:VAL:HA	3:DY:185:VAL:HA	1.97	0.46
3:D1:122:VAL:HG22	3:D1:123:ALA:N	2.30	0.46
1:AH:45:LEU:HB2	1:AH:202:HIS:HA	1.98	0.46
1:BB:22:VAL:C	1:BB:24:MET:H	2.18	0.46
1:AA:45:LEU:HB2	1:AA:202:HIS:HA	1.98	0.46
3:D6:62:PHE:CE2	3:D6:204:VAL:HG11	2.50	0.46
3:DZ:62:PHE:CE2	3:DZ:204:VAL:HG11	2.50	0.46
1:AM:225:PRO:HA	1:AM:226:PRO:HD2	1.88	0.46
2:CE:42:ARG:HA	2:CE:43:PRO:HD2	1.64	0.46
3:DS:120:PHE:HD2	3:DS:146:TRP:CH2	2.34	0.46
2:CJ:115:ASN:HB2	3:DM:189:THR:HG22	233.51	0.46
3:DP:120:PHE:HD2	3:DP:146:TRP:CH2	2.34	0.46
2:CQ:207:GLN:HB3	3:DP:196:ILE:CG2	114.85	0.46
3:DR:120:PHE:HD2	3:DR:146:TRP:CH2	2.34	0.46
3:DY:120:PHE:HD2	3:DY:146:TRP:CH2	2.34	0.46
2:CQ:212:THR:HG23	3:DY:188:LEU:HD22	119.63	0.46
2:CG:207:GLN:HB3	3:D3:196:ILE:CG2	275.25	0.46
2:C0:115:ASN:HB2	3:DQ:189:THR:HG22	1.96	0.46
2:CN:212:THR:HG23	3:D2:188:LEU:HD22	1.96	0.46
2:CE:212:THR:HG23	3:DC:188:LEU:HD22	146.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D1:117:LYS:O	3:D1:191:LEU:HD22	2.15	0.46
3:EC:120:PHE:HD2	3:EC:146:TRP:CH2	2.34	0.46
2:C9:46:THR:CG2	3:DA:165:ASP:HA	203.32	0.46
2:CB:46:THR:CG2	3:DC:165:ASP:HA	2.38	0.46
3:DF:103:SER:HB3	3:DF:159:PRO:CA	2.35	0.46
2:C4:46:THR:CG2	3:D5:165:ASP:HA	2.38	0.46
2:CW:49:ASP:HA	2:CW:50:PRO:HD2	1.80	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
1:A9:120:GLN:HB2	1:A9:129:ARG:HD3	1.96	0.46
1:A9:137:GLY:HA2	1:AN:38:PHE:CD1	144.59	0.46
1:AC:143:VAL:H	3:DF:14:PHE:CB	137.21	0.46
1:AG:45:LEU:HB2	1:AG:202:HIS:HA	1.98	0.46
1:AH:101:PHE:CD2	1:AH:143:VAL:CG1	2.91	0.46
1:AI:45:LEU:HB2	1:AI:202:HIS:HA	1.98	0.46
1:AJ:101:PHE:CD2	1:AJ:143:VAL:CG1	2.91	0.46
1:AK:45:LEU:HB2	1:AK:202:HIS:HA	1.98	0.46
1:AL:139:SER:HA	1:AL:140:PRO:HD3	1.62	0.46
1:AP:121:LEU:C	1:AP:121:LEU:HD13	2.36	0.46
1:AS:121:LEU:HD13	1:AS:121:LEU:C	2.36	0.46
1:AT:84:LEU:CD2	1:AT:209:LEU:HD11	2.45	0.46
1:BE:151:SER:C	1:BE:153:ALA:H	2.19	0.46
1:BG:84:LEU:CD2	1:BG:209:LEU:HD11	2.45	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
3:DD:25:LEU:HD21	3:DE:15:MET:HG2	1.97	0.46
3:DE:15:MET:HG2	3:DI:25:LEU:HD21	120.52	0.46
3:DO:25:LEU:HD21	3:DP:15:MET:CG	108.39	0.46
3:DP:15:MET:CG	3:DT:25:LEU:HD21	2.45	0.46
3:DW:19:PRO:HG3	4:FW:17:ASN:ND2	2.26	0.46
1:BI:157:SER:CB	3:EE:24:PRO:HA	2.36	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:A3:137:GLY:HA2	1:A4:38:PHE:CD1	2.49	0.46
3:D0:220:VAL:HG12	3:D0:221:ASP:O	2.15	0.46
1:AK:187:LEU:HD22	1:AK:188:PRO:N	2.30	0.46
1:AQ:187:LEU:HD22	1:AQ:188:PRO:N	2.30	0.46
1:A7:187:LEU:HD22	1:A7:188:PRO:N	2.30	0.46
1:BF:112:PRO:HB2	3:EC:223:PRO:HB3	1.98	0.46
1:AD:184:TYR:CE2	2:CD:139:ALA:HB2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:58:LEU:HB3	2:CR:59:SER:H	1.65	0.46
1:A0:103:TRP:HB2	1:A0:198:THR:HG23	1.96	0.46
2:CI:152:TYR:HB2	2:CI:197:LEU:HD22	1.97	0.46
2:C5:152:TYR:HB2	2:C5:197:LEU:HD22	1.97	0.46
2:CI:13:ARG:HA	2:CI:13:ARG:HD3	1.72	0.46
1:AR:220:CYS:HA	1:AR:221:PRO:HD2	1.82	0.46
2:CR:13:ARG:HD3	2:CR:13:ARG:HA	1.72	0.46
2:CC:84:PRO:HG3	2:CC:108:TRP:CH2	2.50	0.46
2:CI:84:PRO:HG3	2:CI:108:TRP:CH2	2.50	0.46
1:AB:165:ARG:HG2	2:CB:180:PRO:O	2.16	0.46
1:AE:165:ARG:HG2	2:CE:180:PRO:O	2.16	0.46
2:CG:75:HIS:NE2	3:DG:59:LYS:HB3	2.31	0.46
3:DA:56:ILE:CG1	3:DA:74:PHE:CE1	2.98	0.46
2:CE:84:PRO:HG3	2:CE:108:TRP:CH2	2.50	0.46
1:A6:165:ARG:HG2	2:C7:180:PRO:O	2.16	0.46
2:CR:163:LEU:HD21	2:CR:169:SER:C	2.36	0.46
2:C3:84:PRO:HG3	2:C3:108:TRP:CH2	2.50	0.46
2:C0:163:LEU:HD21	2:C0:169:SER:C	2.36	0.46
2:CT:163:LEU:HD21	2:CT:169:SER:C	2.36	0.46
2:CJ:75:HIS:NE2	3:DJ:59:LYS:HB3	2.30	0.46
2:CW:75:HIS:NE2	3:ED:59:LYS:HB3	262.87	0.46
2:CM:163:LEU:HD21	2:CM:169:SER:C	2.36	0.46
2:CX:163:LEU:HD21	2:CX:169:SER:C	2.36	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
2:CB:163:LEU:HD21	2:CB:169:SER:C	2.36	0.46
1:AE:46:SER:HB2	1:AE:197:LEU:O	2.15	0.46
1:A4:43:LEU:N	1:A4:43:LEU:CD2	2.74	0.46
3:DA:110:PHE:HB3	3:DA:148:VAL:HG11	1.96	0.46
3:ED:110:PHE:HB3	3:ED:148:VAL:HG11	1.96	0.46
1:AS:225:PRO:HA	1:AS:226:PRO:HD2	1.88	0.46
1:BA:225:PRO:HA	1:BA:226:PRO:HD2	1.88	0.46
1:A5:225:PRO:HA	1:A5:226:PRO:HD2	1.87	0.46
2:CH:129:VAL:HA	2:CH:130:PRO:HD3	1.78	0.46
2:CX:129:VAL:HA	2:CX:130:PRO:HD3	1.78	0.46
2:CG:36:TYR:CE2	2:CG:130:PRO:CG	2.98	0.46
3:EE:122:VAL:HG22	3:EE:123:ALA:N	2.30	0.46
3:DD:122:VAL:HG22	3:DD:123:ALA:N	2.30	0.46
3:DH:122:VAL:HA	3:DH:185:VAL:HA	1.97	0.46
3:DT:122:VAL:HA	3:DT:185:VAL:HA	1.97	0.46
3:DU:122:VAL:HG22	3:DU:123:ALA:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D3:122:VAL:HA	3:D3:185:VAL:HA	1.97	0.46
3:EB:122:VAL:HG22	3:EB:123:ALA:N	2.30	0.46
3:DU:62:PHE:CE2	3:DU:204:VAL:HG11	2.50	0.46
3:DK:195:ASP:HB2	3:DK:198:VAL:HG22	1.98	0.46
1:BA:22:VAL:C	1:BA:24:MET:H	2.18	0.46
1:AU:22:VAL:C	1:AU:24:MET:H	2.18	0.46
3:DO:195:ASP:HB2	3:DO:198:VAL:HG22	1.98	0.46
4:FW:32:ASN:HB3	4:FW:33:SER:H	1.58	0.46
3:DQ:195:ASP:HB2	3:DQ:198:VAL:HG22	1.98	0.46
1:BG:22:VAL:C	1:BG:24:MET:H	2.18	0.46
1:AX:22:VAL:C	1:AX:24:MET:H	2.18	0.46
3:DS:195:ASP:HB2	3:DS:198:VAL:HG22	1.98	0.46
2:CC:42:ARG:HA	2:CC:43:PRO:HD2	1.64	0.46
3:D1:84:GLU:N	3:D1:84:GLU:OE1	2.48	0.46
3:ED:84:GLU:N	3:ED:84:GLU:OE1	2.48	0.46
1:AY:45:LEU:HB2	1:AY:202:HIS:HA	1.98	0.46
2:CI:207:GLN:HB3	3:DJ:196:ILE:CG2	81.45	0.46
2:CW:216:ALA:HA	2:CW:217:PRO:HD3	1.78	0.46
2:CW:115:ASN:CA	3:DJ:119:LYS:HZ2	2.29	0.46
3:DN:120:PHE:HD2	3:DN:146:TRP:CH2	2.34	0.46
3:ED:117:LYS:O	3:ED:191:LEU:HD22	2.15	0.46
2:CJ:212:THR:HG23	3:DM:188:LEU:HD22	232.25	0.46
3:DA:117:LYS:O	3:DA:191:LEU:HD22	2.15	0.46
3:DB:120:PHE:HD2	3:DB:146:TRP:CH2	2.34	0.46
2:CJ:115:ASN:CA	3:DM:119:LYS:HZ2	231.47	0.46
2:C2:115:ASN:HB2	3:DH:189:THR:HG22	259.95	0.46
3:D4:117:LYS:O	3:D4:191:LEU:HD22	2.15	0.46
3:DR:117:LYS:O	3:DR:191:LEU:HD22	2.15	0.46
3:DQ:120:PHE:HD2	3:DQ:146:TRP:CH2	2.34	0.46
2:CN:207:GLN:HB3	3:DE:196:ILE:CG2	276.61	0.46
3:DE:120:PHE:HD2	3:DE:146:TRP:CH2	2.34	0.46
3:DU:117:LYS:O	3:DU:191:LEU:HD22	2.15	0.46
2:CB:115:ASN:HD22	3:DF:190:ALA:C	151.22	0.46
2:CS:207:GLN:HB3	3:EA:196:ILE:CG2	171.65	0.46
2:CA:49:ASP:HA	2:CA:50:PRO:HD2	1.80	0.46
2:CN:46:THR:CG2	3:DO:165:ASP:HA	2.38	0.46
3:DP:103:SER:HB3	3:DP:159:PRO:CA	2.35	0.46
1:A8:149:SER:C	1:A8:151:SER:H	2.18	0.46
1:AC:45:LEU:HB2	1:AC:202:HIS:HA	1.98	0.46
1:AF:151:SER:C	1:AF:153:ALA:H	2.19	0.46
1:AJ:84:LEU:CD2	1:AJ:209:LEU:HD11	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:120:GLN:HB2	1:AW:129:ARG:HD3	1.96	0.46
1:AX:151:SER:C	1:AX:153:ALA:H	2.19	0.46
1:BC:84:LEU:CD2	1:BC:209:LEU:HD11	2.45	0.46
1:BF:151:SER:C	1:BF:153:ALA:H	2.19	0.46
1:A6:121:LEU:C	1:A6:121:LEU:HD13	2.36	0.46
1:A6:139:SER:HA	1:A6:140:PRO:HD3	1.62	0.46
1:BH:84:LEU:CD2	1:BH:209:LEU:HD11	2.45	0.46
1:BE:112:PRO:HB2	3:EB:223:PRO:HB3	1.98	0.46
1:AV:112:PRO:HB2	3:DX:223:PRO:HB3	1.98	0.46
3:DR:220:VAL:HG12	3:DR:221:ASP:O	2.15	0.46
1:AY:84:LEU:CD2	1:AY:209:LEU:HD11	2.45	0.46
1:AZ:146:ILE:HG21	1:AZ:146:ILE:HD13	1.74	0.46
3:DS:220:VAL:HG12	3:DS:221:ASP:O	2.15	0.46
3:D5:220:VAL:HG12	3:D5:221:ASP:O	2.15	0.46
1:BF:187:LEU:HD22	1:BF:188:PRO:N	2.30	0.46
1:AR:187:LEU:HD22	1:AR:188:PRO:N	2.30	0.46
1:A1:112:PRO:HB2	3:D3:223:PRO:HB3	1.98	0.46
1:AM:184:TYR:CE2	2:CO:139:ALA:HB2	104.02	0.46
2:CM:134:HIS:HB3	2:CM:135:THR:H	1.46	0.46
1:AO:184:TYR:CE2	2:CS:139:ALA:HB2	112.85	0.46
1:AB:184:TYR:CE2	2:CD:139:ALA:HB2	104.02	0.46
1:A3:184:TYR:CE2	2:C4:139:ALA:HB2	2.51	0.46
1:AL:103:TRP:HB2	1:AL:198:THR:HG23	1.96	0.46
1:A2:103:TRP:HB2	1:A2:198:THR:HG23	1.96	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
3:DA:108:PHE:O	3:DA:153:ALA:HA	2.15	0.46
2:CK:152:TYR:HB2	2:CK:197:LEU:HD22	1.98	0.46
1:AD:220:CYS:HA	1:AD:221:PRO:HD2	1.82	0.46
2:C1:76:GLY:HA2	2:C1:197:LEU:HD21	1.97	0.46
2:CC:152:TYR:HB2	2:CC:197:LEU:HD22	1.97	0.46
2:C7:152:TYR:HB2	2:C7:197:LEU:HD22	1.97	0.46
3:D7:108:PHE:O	3:D7:153:ALA:HA	2.15	0.46
1:A1:220:CYS:HA	1:A1:221:PRO:HD2	1.82	0.46
2:C7:84:PRO:HG3	2:C7:108:TRP:CH2	2.50	0.46
1:AF:165:ARG:HG2	2:CF:180:PRO:O	2.16	0.46
1:AL:165:ARG:HG2	2:CN:180:PRO:O	79.98	0.46
1:AA:165:ARG:HG2	2:CC:180:PRO:O	79.98	0.46
1:A9:165:ARG:HG2	2:CA:180:PRO:O	231.63	0.46
1:BB:184:TYR:CE2	2:CQ:139:ALA:HB2	132.34	0.46
1:A1:165:ARG:HG2	2:C2:180:PRO:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:165:ARG:HG2	2:CX:180:PRO:O	162.08	0.46
2:CU:75:HIS:NE2	3:DU:59:LYS:HB3	2.30	0.46
2:CP:75:HIS:NE2	3:DP:59:LYS:HB3	2.30	0.46
2:C5:75:HIS:NE2	3:D5:59:LYS:HB3	2.30	0.46
2:CC:163:LEU:HD21	2:CC:169:SER:C	2.36	0.46
2:CT:75:HIS:NE2	3:EA:59:LYS:HB3	205.81	0.46
3:DJ:56:ILE:CG1	3:DJ:74:PHE:CE1	2.98	0.46
3:DT:56:ILE:CG1	3:DT:74:PHE:CE1	2.98	0.46
2:CM:75:HIS:NE2	3:DM:59:LYS:HB3	2.30	0.46
2:CN:75:HIS:NE2	3:DN:59:LYS:HB3	2.31	0.46
3:DN:56:ILE:CG1	3:DN:74:PHE:CE1	2.98	0.46
2:CL:163:LEU:HD21	2:CL:169:SER:C	2.36	0.46
1:A0:46:SER:HB2	1:A0:197:LEU:O	2.15	0.46
1:AT:46:SER:HB2	1:AT:197:LEU:O	2.15	0.46
1:BE:43:LEU:N	1:BE:43:LEU:CD2	2.74	0.46
1:BC:46:SER:HB2	1:BC:197:LEU:O	2.15	0.46
1:BF:43:LEU:H	1:BF:43:LEU:HD23	1.81	0.46
1:AL:110:GLY:H	1:AM:242:ASN:ND2	2.12	0.46
1:AO:110:GLY:H	1:AS:242:ASN:ND2	95.86	0.46
2:CB:65:LYS:CB	3:DF:135:ARG:HH21	142.19	0.46
2:CP:65:LYS:CB	3:D1:135:ARG:HH21	2.29	0.46
3:DW:110:PHE:HB3	3:DW:148:VAL:HG11	1.96	0.46
3:DU:110:PHE:HB3	3:DU:148:VAL:HG11	1.96	0.46
2:C7:23:ILE:H	2:C7:23:ILE:HD12	1.80	0.46
2:C4:23:ILE:H	2:C4:23:ILE:HD12	1.80	0.46
4:F9:22:VAL:HG11	4:FD:25:PHE:HZ	197.56	0.46
4:F2:25:PHE:HZ	4:F3:22:VAL:HG11	1.81	0.46
4:FW:25:PHE:HZ	4:FX:22:VAL:HG11	1.81	0.46
3:DM:122:VAL:HG22	3:DM:123:ALA:N	2.30	0.46
3:D1:122:VAL:HA	3:D1:185:VAL:HA	1.97	0.46
2:CC:228:ASN:OD1	2:CM:92:GLY:HA3	160.04	0.46
2:CH:228:ASN:OD1	2:CM:92:GLY:HA3	258.08	0.46
2:C4:228:ASN:OD1	2:CU:92:GLY:HA3	258.20	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
1:BE:22:VAL:CG1	1:BE:23:ASP:N	2.79	0.46
1:AW:22:VAL:CG1	1:AW:23:ASP:N	2.79	0.46
1:AX:22:VAL:CG1	1:AX:23:ASP:N	2.79	0.46
3:DN:195:ASP:HB2	3:DN:198:VAL:HG22	1.98	0.46
1:BC:22:VAL:C	1:BC:24:MET:H	2.18	0.46
3:DX:62:PHE:CE2	3:DX:204:VAL:HG11	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:45:LEU:HB2	1:BB:202:HIS:HA	1.98	0.46
2:CM:42:ARG:HA	2:CM:43:PRO:HD2	1.65	0.46
3:D7:62:PHE:CE2	3:D7:204:VAL:HG11	2.50	0.46
3:D2:84:GLU:N	3:D2:84:GLU:OE1	2.48	0.46
3:DL:195:ASP:HB2	3:DL:198:VAL:HG22	1.98	0.46
1:A4:45:LEU:HB2	1:A4:202:HIS:HA	1.98	0.46
3:D0:62:PHE:CE2	3:D0:204:VAL:HG11	2.50	0.46
1:AS:22:VAL:C	1:AS:24:MET:H	2.18	0.46
3:DT:62:PHE:CE2	3:DT:204:VAL:HG11	2.50	0.46
3:DB:195:ASP:HB2	3:DB:198:VAL:HG22	1.98	0.46
2:CK:207:GLN:HB3	3:DB:196:ILE:CG2	275.24	0.46
2:CM:212:THR:HG23	3:DD:188:LEU:HD22	159.11	0.46
2:CM:212:THR:HG23	3:DI:188:LEU:HD22	256.97	0.46
2:CT:207:GLN:HB3	3:DH:196:ILE:CG2	241.25	0.46
2:CL:115:ASN:HB2	3:DK:189:THR:HG22	114.95	0.46
2:C1:212:THR:HG22	2:C1:213:MET:N	2.30	0.46
2:CO:216:ALA:HA	2:CO:217:PRO:HD3	1.78	0.46
3:D3:120:PHE:HD2	3:D3:146:TRP:CH2	2.34	0.46
3:D3:117:LYS:O	3:D3:191:LEU:HD22	2.15	0.46
2:CG:115:ASN:HB2	3:EB:189:THR:HG22	1.96	0.46
2:CZ:115:ASN:HD22	3:DQ:190:ALA:C	94.26	0.46
2:C9:115:ASN:HB2	3:DL:189:THR:HG22	90.17	0.46
2:CA:207:GLN:HB3	3:DL:196:ILE:CG2	275.25	0.46
3:DL:120:PHE:HD2	3:DL:146:TRP:CH2	2.34	0.46
2:CN:216:ALA:HA	2:CN:217:PRO:HD3	1.78	0.46
3:D2:120:PHE:HD2	3:D2:146:TRP:CH2	2.34	0.46
2:CE:207:GLN:HB3	3:DF:196:ILE:CG2	2.45	0.46
2:C2:49:ASP:HA	2:C2:50:PRO:HD2	1.80	0.46
3:EA:160:TYR:HD1	3:EA:161:SER:N	2.13	0.46
3:D2:103:SER:HB2	3:D2:159:PRO:HA	1.95	0.46
2:CZ:46:THR:CG2	3:D0:165:ASP:HA	2.38	0.46
1:A8:45:LEU:HB2	1:A8:202:HIS:HA	1.98	0.46
1:A9:45:LEU:HB2	1:A9:202:HIS:HA	1.98	0.46
1:AC:82:LEU:CD2	1:AC:84:LEU:HD11	2.46	0.46
1:AD:121:LEU:HD13	1:AD:121:LEU:C	2.36	0.46
1:AE:151:SER:C	1:AE:153:ALA:H	2.19	0.46
1:AE:82:LEU:CD2	1:AE:84:LEU:HD11	2.46	0.46
1:AE:87:GLN:O	1:AE:88:PHE:CB	2.62	0.46
1:AG:82:LEU:CD2	1:AG:84:LEU:HD11	2.46	0.46
1:AH:121:LEU:HD13	1:AH:121:LEU:C	2.36	0.46
1:AH:139:SER:HA	1:AH:140:PRO:HD3	1.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:121:LEU:HD13	1:AI:121:LEU:C	2.36	0.46
1:AI:82:LEU:CD2	1:AI:84:LEU:HD11	2.46	0.46
1:AL:45:LEU:HB2	1:AL:202:HIS:HA	1.98	0.46
1:AN:45:LEU:HB2	1:AN:202:HIS:HA	1.98	0.46
1:AR:45:LEU:HB2	1:AR:202:HIS:HA	1.98	0.46
1:AS:101:PHE:CD2	1:AS:143:VAL:CG1	2.91	0.46
1:AT:143:VAL:H	3:DV:14:PHE:CB	2.28	0.46
1:AW:121:LEU:C	1:AW:121:LEU:HD13	2.36	0.46
1:BD:139:SER:HA	1:BD:140:PRO:HD3	1.62	0.46
1:BD:151:SER:C	1:BD:153:ALA:H	2.19	0.46
1:BF:82:LEU:CD2	1:BF:84:LEU:HD11	2.46	0.46
1:BG:151:SER:C	1:BG:153:ALA:H	2.19	0.46
1:BI:120:GLN:HB2	1:BI:129:ARG:HD3	1.96	0.46
1:BI:151:SER:C	1:BI:153:ALA:H	2.19	0.46
1:BI:84:LEU:CD2	1:BI:209:LEU:HD11	2.45	0.46
3:DA:15:MET:HG2	3:DE:25:LEU:HD21	1.97	0.46
3:DQ:25:LEU:HD21	3:DR:15:MET:HG2	1.97	0.46
1:A3:38:PHE:CD1	1:A7:137:GLY:HA2	2.49	0.46
1:BH:82:LEU:CD2	1:BH:84:LEU:HD11	2.46	0.46
3:EC:25:LEU:HD21	3:ED:15:MET:HG2	1.97	0.46
1:A3:121:LEU:C	1:A3:121:LEU:HD13	2.36	0.46
1:AI:112:PRO:HB2	3:DL:223:PRO:HB3	279.54	0.46
1:AF:112:PRO:HB2	3:DI:223:PRO:HB3	72.90	0.46
1:AE:112:PRO:HB2	3:DA:223:PRO:HB3	1.98	0.46
1:A4:112:PRO:HB2	3:D6:223:PRO:HB3	1.98	0.46
3:D9:220:VAL:HG12	3:D9:221:ASP:O	2.15	0.46
1:A2:151:SER:C	1:A2:153:ALA:H	2.19	0.46
1:A2:149:SER:C	1:A2:151:SER:H	2.18	0.46
3:D2:25:LEU:HD21	3:D3:15:MET:HG2	1.97	0.46
1:A2:121:LEU:HD13	1:A2:121:LEU:C	2.36	0.46
1:AZ:82:LEU:CD2	1:AZ:84:LEU:HD11	2.46	0.46
1:BD:187:LEU:HD22	1:BD:188:PRO:N	2.30	0.46
1:A3:112:PRO:HB2	3:D5:223:PRO:HB3	1.98	0.46
1:AC:184:TYR:CE2	2:CE:139:ALA:HB2	104.02	0.46
1:AK:184:TYR:CE2	2:CK:139:ALA:HB2	2.51	0.46
1:AL:184:TYR:CE2	2:CN:139:ALA:HB2	104.02	0.46
1:AE:113:THR:O	1:AE:114:LYS:C	2.54	0.46
1:AO:113:THR:O	1:AO:114:LYS:C	2.55	0.46
1:AP:184:TYR:CE2	2:CP:139:ALA:HB2	2.51	0.46
2:CR:160:HIS:HE2	3:DR:51:TYR:HE1	1.64	0.46
3:DM:108:PHE:O	3:DM:153:ALA:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:108:PHE:O	3:EC:153:ALA:HA	2.15	0.46
2:CL:152:TYR:HB2	2:CL:197:LEU:HD22	1.97	0.46
3:DL:108:PHE:O	3:DL:153:ALA:HA	2.15	0.46
2:CW:76:GLY:HA2	2:CW:197:LEU:HD21	1.97	0.46
3:DW:108:PHE:O	3:DW:153:ALA:HA	2.16	0.46
3:DK:108:PHE:O	3:DK:153:ALA:HA	2.15	0.46
2:CB:76:GLY:HA2	2:CB:197:LEU:HD21	1.97	0.46
2:C0:152:TYR:HB2	2:C0:197:LEU:HD22	1.98	0.46
1:BE:184:TYR:CE2	2:CT:139:ALA:HB2	214.53	0.46
1:AS:184:TYR:CE2	2:CT:139:ALA:HB2	2.51	0.46
1:AD:165:ARG:HG2	2:CD:180:PRO:O	2.16	0.46
1:AF:165:ARG:HG2	2:CH:180:PRO:O	79.98	0.46
1:AJ:219:TYR:HD2	3:DL:39:ARG:HB2	230.30	0.46
1:A0:165:ARG:HG2	2:C1:180:PRO:O	2.16	0.46
1:AK:165:ARG:HG2	2:CK:180:PRO:O	2.16	0.46
2:CA:163:LEU:HD21	2:CA:169:SER:C	2.36	0.46
2:CU:163:LEU:HD21	2:CU:169:SER:C	2.36	0.46
2:CV:163:LEU:HD21	2:CV:169:SER:C	2.36	0.46
1:AY:219:TYR:HD2	3:DZ:39:ARG:HB2	1.79	0.46
2:C8:75:HIS:NE2	3:D8:59:LYS:HB3	2.30	0.46
2:C2:75:HIS:NE2	3:D2:59:LYS:HB3	2.30	0.46
1:A2:184:TYR:CE2	2:C3:139:ALA:HB2	2.51	0.46
2:CY:163:LEU:HD21	2:CY:169:SER:C	2.36	0.46
3:DQ:56:ILE:CG1	3:DQ:74:PHE:CE1	2.98	0.46
1:BB:165:ARG:HG2	2:CQ:180:PRO:O	121.83	0.46
2:CQ:180:PRO:HD2	2:CQ:189:HIS:HE1	1.76	0.46
1:A5:165:ARG:HG2	2:C6:180:PRO:O	2.16	0.46
3:DL:56:ILE:CG1	3:DL:74:PHE:CE1	2.98	0.46
2:CI:163:LEU:HD21	2:CI:169:SER:C	2.36	0.46
2:CZ:134:HIS:HB3	2:CZ:135:THR:H	1.46	0.46
3:DB:56:ILE:CG1	3:DB:74:PHE:CE1	2.98	0.46
1:AM:239:PHE:CD1	3:DM:170:TYR:CD2	2.96	0.46
1:AH:46:SER:HB2	1:AH:197:LEU:O	2.15	0.46
1:A8:43:LEU:HD23	1:A8:43:LEU:H	1.81	0.46
1:AM:43:LEU:H	1:AM:43:LEU:HD23	1.81	0.46
1:BH:43:LEU:H	1:BH:43:LEU:HD23	1.81	0.46
1:AY:43:LEU:HD23	1:AY:43:LEU:H	1.81	0.46
2:CD:65:LYS:CB	3:D7:135:ARG:HH21	2.29	0.46
3:DN:110:PHE:HB3	3:DN:148:VAL:HG11	1.96	0.46
2:C8:23:ILE:HD12	2:C8:23:ILE:H	1.80	0.46
2:C9:23:ILE:HD12	2:C9:23:ILE:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FR:25:PHE:HZ	4:FS:22:VAL:HG11	1.81	0.46
4:FJ:22:VAL:HG11	4:FN:25:PHE:HZ	240.53	0.46
1:AI:225:PRO:HA	1:AI:226:PRO:HD2	1.88	0.46
4:FB:25:PHE:HZ	4:FC:22:VAL:HG11	1.81	0.46
2:C2:129:VAL:HA	2:C2:130:PRO:HD3	1.78	0.46
3:DD:122:VAL:HA	3:DD:185:VAL:HA	1.97	0.46
3:DH:122:VAL:HG22	3:DH:123:ALA:N	2.30	0.46
3:D9:122:VAL:HA	3:D9:185:VAL:HA	1.97	0.46
3:DV:122:VAL:HA	3:DV:185:VAL:HA	1.97	0.46
3:D0:122:VAL:HA	3:D0:185:VAL:HA	1.97	0.46
2:CA:228:ASN:OD1	2:CK:92:GLY:HA3	258.20	0.46
2:CO:228:ASN:OD1	2:CQ:92:GLY:HA3	138.85	0.46
2:CA:92:GLY:HA3	2:CV:228:ASN:OD1	2.16	0.46
2:CR:92:GLY:HA3	2:CW:228:ASN:OD1	210.72	0.46
1:A3:22:VAL:CG1	1:A3:23:ASP:N	2.79	0.46
1:AL:22:VAL:CG1	1:AL:23:ASP:N	2.79	0.46
1:A9:151:SER:C	1:A9:153:ALA:H	2.19	0.46
3:ED:195:ASP:HB2	3:ED:198:VAL:HG22	1.98	0.46
3:EB:62:PHE:CE2	3:EB:204:VAL:HG11	2.50	0.46
3:EE:36:VAL:HA	3:EE:37:PRO:HD3	1.53	0.46
1:BG:45:LEU:HB2	1:BG:202:HIS:HA	1.98	0.46
3:EE:195:ASP:HB2	3:EE:198:VAL:HG22	1.98	0.46
3:DP:195:ASP:HB2	3:DP:198:VAL:HG22	1.98	0.46
3:D5:62:PHE:CE2	3:D5:204:VAL:HG11	2.50	0.46
1:AU:45:LEU:HB2	1:AU:202:HIS:HA	1.98	0.46
1:AM:45:LEU:HB2	1:AM:202:HIS:HA	1.98	0.46
3:DV:84:GLU:N	3:DV:84:GLU:OE1	2.48	0.46
3:DD:195:ASP:HB2	3:DD:198:VAL:HG22	1.98	0.46
1:A0:22:VAL:C	1:A0:24:MET:H	2.18	0.46
3:D8:117:LYS:O	3:D8:191:LEU:HD22	2.15	0.46
2:CT:212:THR:HG23	3:DK:188:LEU:HD22	1.97	0.46
3:EB:120:PHE:HD2	3:EB:146:TRP:CH2	2.34	0.46
3:DW:117:LYS:O	3:DW:191:LEU:HD22	2.15	0.46
2:CB:216:ALA:HA	2:CB:217:PRO:HD3	1.78	0.46
3:DT:120:PHE:HD2	3:DT:146:TRP:CH2	2.34	0.46
3:EA:120:PHE:HD2	3:EA:146:TRP:CH2	2.34	0.46
3:D6:117:LYS:O	3:D6:191:LEU:HD22	2.15	0.46
3:DT:160:TYR:HD1	3:DT:161:SER:N	2.13	0.46
2:CX:46:THR:CG2	3:DY:165:ASP:HA	2.38	0.46
3:D1:160:TYR:HD1	3:D1:161:SER:N	2.13	0.46
2:C1:46:THR:CG2	3:D2:165:ASP:HA	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:82:LEU:CD2	1:A9:84:LEU:HD11	2.46	0.46
1:AF:121:LEU:C	1:AF:121:LEU:HD13	2.36	0.46
1:AH:38:PHE:CD1	1:AL:137:GLY:HA2	265.55	0.46
1:AM:143:VAL:H	3:DP:14:PHE:CB	137.21	0.46
1:AM:82:LEU:CD2	1:AM:84:LEU:HD11	2.46	0.46
1:AN:82:LEU:CD2	1:AN:84:LEU:HD11	2.46	0.46
1:AO:38:PHE:CD1	1:AR:137:GLY:HA2	131.61	0.46
1:AQ:82:LEU:CD2	1:AQ:84:LEU:HD11	2.46	0.46
1:AR:121:LEU:HD13	1:AR:121:LEU:C	2.36	0.46
1:AS:143:VAL:H	3:DP:14:PHE:CB	2.28	0.46
1:BB:82:LEU:CD2	1:BB:84:LEU:HD11	2.46	0.46
1:BF:84:LEU:CD2	1:BF:209:LEU:HD11	2.45	0.46
3:DG:13:SER:OG	3:DG:15:MET:CE	2.64	0.46
3:DG:25:LEU:HD21	3:DH:15:MET:HG2	1.97	0.46
3:DO:13:SER:OG	3:DO:15:MET:CE	2.64	0.46
3:DQ:13:SER:OG	3:DQ:15:MET:CE	2.64	0.46
1:A3:151:SER:C	1:A3:153:ALA:H	2.19	0.46
3:D4:13:SER:OG	3:D4:15:MET:CE	2.64	0.46
3:ED:13:SER:OG	3:ED:15:MET:CE	2.64	0.46
1:AA:112:PRO:HB2	3:DB:223:PRO:HB3	1.98	0.46
1:AE:112:PRO:HB2	3:DH:223:PRO:HB3	149.00	0.46
1:A5:151:SER:C	1:A5:153:ALA:H	2.19	0.46
1:A5:82:LEU:CD2	1:A5:84:LEU:HD11	2.46	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:AC:183:THR:HA	1:AC:186:TRP:HB3	1.98	0.46
1:AG:187:LEU:HD22	1:AG:188:PRO:N	2.30	0.46
1:A7:183:THR:HA	1:A7:186:TRP:HB3	1.98	0.46
3:D1:220:VAL:HG12	3:D1:221:ASP:O	2.15	0.46
1:BC:183:THR:HA	1:BC:186:TRP:HB3	1.98	0.46
1:AI:184:TYR:CE2	2:CI:139:ALA:HB2	2.51	0.46
1:BD:184:TYR:CE2	2:CS:139:ALA:HB2	164.48	0.46
1:AD:184:TYR:CE2	2:CF:139:ALA:HB2	107.52	0.46
1:AB:113:THR:O	1:AB:114:LYS:C	2.54	0.46
1:AG:113:THR:O	1:AG:114:LYS:C	2.55	0.46
2:CU:58:LEU:HB3	2:CU:59:SER:H	1.65	0.46
1:BI:184:TYR:CE2	2:CX:139:ALA:HB2	175.74	0.46
1:A1:113:THR:O	1:A1:114:LYS:C	2.55	0.46
1:AX:113:THR:O	1:AX:114:LYS:C	2.55	0.46
2:CF:160:HIS:HE2	3:DF:51:TYR:HE1	1.64	0.46
1:BA:184:TYR:CE2	2:CP:139:ALA:HB2	110.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:113:THR:O	1:AY:114:LYS:C	2.54	0.46
1:AH:113:THR:O	1:AH:114:LYS:C	2.55	0.46
2:CO:152:TYR:HB2	2:CO:197:LEU:HD22	1.97	0.46
3:D2:108:PHE:O	3:D2:153:ALA:HA	2.15	0.46
3:D0:108:PHE:O	3:D0:153:ALA:HA	2.15	0.46
1:AD:165:ARG:HG2	2:CF:180:PRO:O	99.55	0.46
1:AM:165:ARG:HG2	2:CM:180:PRO:O	2.16	0.46
1:AG:165:ARG:HG2	2:CG:180:PRO:O	2.16	0.46
1:AE:219:TYR:HD2	3:DE:39:ARG:HB2	1.79	0.46
1:AP:165:ARG:HG2	2:CP:180:PRO:O	2.16	0.46
2:CW:84:PRO:HG3	2:CW:108:TRP:CH2	2.50	0.46
2:CF:163:LEU:HD21	2:CF:169:SER:C	2.36	0.46
1:A4:165:ARG:HG2	2:C5:180:PRO:O	2.16	0.46
3:DV:56:ILE:CG1	3:DV:74:PHE:CE1	2.98	0.46
2:C5:163:LEU:HD21	2:C5:169:SER:C	2.36	0.46
2:C3:83:LEU:HA	2:C3:84:PRO:HA	1.60	0.46
1:BC:184:TYR:CE2	2:CR:139:ALA:HB2	160.78	0.46
1:A5:184:TYR:CE2	2:C6:139:ALA:HB2	2.51	0.46
1:AV:46:SER:HB2	1:AV:197:LEU:O	2.15	0.46
1:AI:43:LEU:HD23	1:AI:43:LEU:H	1.81	0.46
1:AW:46:SER:HB2	1:AW:197:LEU:O	2.15	0.46
3:DE:97:PHE:CD1	3:DE:216:LEU:HD23	2.51	0.46
3:D7:97:PHE:CD1	3:D7:216:LEU:HD23	2.51	0.46
3:D4:97:PHE:CD1	3:D4:216:LEU:HD23	2.51	0.46
3:DO:97:PHE:CD1	3:DO:216:LEU:HD23	2.51	0.46
3:DQ:97:PHE:CD1	3:DQ:216:LEU:HD23	2.51	0.46
3:D3:97:PHE:CD1	3:D3:216:LEU:HD23	2.51	0.46
1:AT:242:ASN:ND2	1:AX:110:GLY:H	2.12	0.46
2:CM:65:LYS:CB	3:DI:135:ARG:HH21	265.98	0.46
2:CR:65:LYS:CB	3:EE:135:ARG:HH21	2.29	0.46
3:DZ:110:PHE:HB3	3:DZ:148:VAL:HG11	1.96	0.46
4:FN:25:PHE:HZ	4:FO:22:VAL:HG11	1.81	0.46
4:F3:25:PHE:HZ	4:FZ:22:VAL:HG11	1.81	0.46
4:FG:25:PHE:HZ	4:FH:22:VAL:HG11	1.81	0.46
4:F0:22:VAL:HG11	4:FZ:25:PHE:HZ	1.81	0.46
2:CF:36:TYR:CE2	2:CF:130:PRO:CG	2.98	0.46
3:DR:122:VAL:HG22	3:DR:123:ALA:N	2.30	0.46
3:DB:172:ALA:O	3:DB:178:ASN:OD1	2.34	0.46
3:DP:172:ALA:O	3:DP:178:ASN:OD1	2.34	0.46
3:DC:154:PHE:CG	3:DC:155:SER:N	2.84	0.46
1:AO:107:PHE:HB2	1:AO:194:SER:OG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:228:ASN:OD1	2:CL:92:GLY:HA3	130.29	0.46
2:C9:228:ASN:OD1	2:CK:92:GLY:HA3	82.73	0.46
2:CH:92:GLY:HA3	2:CM:228:ASN:OD1	258.08	0.46
2:C6:228:ASN:OD1	2:CD:92:GLY:HA3	2.16	0.46
2:C5:92:GLY:HA3	2:CF:228:ASN:OD1	2.16	0.46
2:CF:92:GLY:HA3	2:CU:228:ASN:OD1	210.67	0.46
1:AD:22:VAL:CG1	1:AD:23:ASP:N	2.79	0.46
1:AJ:22:VAL:CG1	1:AJ:23:ASP:N	2.79	0.46
1:AP:22:VAL:CG1	1:AP:23:ASP:N	2.79	0.46
1:A0:22:VAL:CG1	1:A0:23:ASP:N	2.79	0.46
3:DW:195:ASP:HB2	3:DW:198:VAL:HG22	1.98	0.46
1:A1:22:VAL:C	1:A1:24:MET:H	2.18	0.46
3:DF:195:ASP:HB2	3:DF:198:VAL:HG22	1.98	0.46
3:DC:85:LEU:O	3:DC:91:ALA:CB	2.64	0.46
3:DU:36:VAL:HA	3:DU:37:PRO:HD3	1.53	0.46
1:AP:171:TYR:N	1:AP:185:ASN:OD1	2.45	0.46
3:DH:195:ASP:HB2	3:DH:198:VAL:HG22	1.98	0.46
3:DZ:195:ASP:HB2	3:DZ:198:VAL:HG22	1.98	0.46
3:EE:62:PHE:CE2	3:EE:204:VAL:HG11	2.50	0.46
3:DI:195:ASP:HB2	3:DI:198:VAL:HG22	1.98	0.46
3:DR:195:ASP:HB2	3:DR:198:VAL:HG22	1.98	0.46
3:DT:84:GLU:OE1	3:DT:84:GLU:N	2.48	0.46
1:AR:22:VAL:CG1	1:AR:23:ASP:N	2.79	0.46
3:DM:195:ASP:HB2	3:DM:198:VAL:HG22	1.98	0.46
3:DV:195:ASP:HB2	3:DV:198:VAL:HG22	1.98	0.46
1:A5:45:LEU:HB2	1:A5:202:HIS:HA	1.98	0.46
2:CH:207:GLN:HB3	3:DS:196:ILE:CG2	172.46	0.46
2:CW:115:ASN:HD22	3:DJ:190:ALA:C	2.17	0.46
3:EE:117:LYS:O	3:EE:191:LEU:HD22	2.15	0.46
2:C2:212:THR:HG22	2:C2:213:MET:N	2.30	0.46
2:CL:115:ASN:HD22	3:D8:190:ALA:C	117.12	0.46
3:D8:120:PHE:HD2	3:D8:146:TRP:CH2	2.34	0.46
2:CX:207:GLN:HB3	3:DO:196:ILE:CG2	233.14	0.46
3:DZ:120:PHE:HD2	3:DZ:146:TRP:CH2	2.34	0.46
2:CS:115:ASN:HD22	3:EA:190:ALA:C	162.40	0.46
3:DV:120:PHE:HD2	3:DV:146:TRP:CH2	2.34	0.46
1:BD:17:HIS:O	2:CR:48:SER:HA	138.45	0.46
2:CQ:46:THR:CG2	3:DR:165:ASP:HA	2.38	0.46
3:D7:103:SER:HB3	3:D7:159:PRO:CA	2.35	0.46
1:AD:101:PHE:CD2	1:AD:143:VAL:CG1	2.91	0.46
1:AF:45:LEU:HB2	1:AF:202:HIS:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:143:VAL:H	3:DK:14:PHE:CB	270.58	0.46
1:AJ:139:SER:HA	1:AJ:140:PRO:HD3	1.62	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:AK:143:VAL:H	3:DN:14:PHE:CB	32.83	0.46
1:AL:121:LEU:HD13	1:AL:121:LEU:C	2.36	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:AS:45:LEU:HB2	1:AS:202:HIS:HA	1.98	0.46
1:AT:121:LEU:C	1:AT:121:LEU:HD13	2.36	0.46
1:AU:84:LEU:CD2	1:AU:209:LEU:HD11	2.45	0.46
1:AU:82:LEU:CD2	1:AU:84:LEU:HD11	2.46	0.46
1:AW:143:VAL:H	3:DY:14:PHE:CB	2.28	0.46
1:BA:143:VAL:H	3:DQ:14:PHE:CB	133.10	0.46
1:BA:101:PHE:CD2	1:BA:143:VAL:HG11	2.44	0.46
1:AM:38:PHE:CD1	1:BD:137:GLY:HA2	233.73	0.46
1:BE:137:GLY:HA2	1:BF:38:PHE:CD1	2.48	0.46
1:BF:121:LEU:HD13	1:BF:121:LEU:C	2.36	0.46
1:BF:143:VAL:H	3:EC:14:PHE:CB	2.28	0.46
3:DJ:13:SER:OG	3:DJ:15:MET:CE	2.64	0.46
3:DK:13:SER:OG	3:DK:15:MET:CE	2.64	0.46
3:DM:13:SER:OG	3:DM:15:MET:CE	2.64	0.46
3:DS:13:SER:OG	3:DS:15:MET:CE	2.64	0.46
3:EB:13:SER:OG	3:EB:15:MET:CE	2.64	0.46
3:EE:13:SER:OG	3:EE:15:MET:CE	2.64	0.46
1:A3:149:SER:C	1:A3:151:SER:H	2.18	0.46
1:A7:82:LEU:CD2	1:A7:84:LEU:HD11	2.46	0.46
1:AU:121:LEU:HD13	1:AU:121:LEU:C	2.36	0.46
1:AV:82:LEU:CD2	1:AV:84:LEU:HD11	2.46	0.46
1:BH:151:SER:C	1:BH:153:ALA:H	2.19	0.46
1:AF:112:PRO:HB2	3:DG:223:PRO:HB3	1.97	0.46
3:D2:13:SER:OG	3:D2:15:MET:CE	2.64	0.46
1:BI:112:PRO:HB2	3:EA:223:PRO:HB3	1.98	0.46
1:A2:112:PRO:HB2	3:DZ:223:PRO:HB3	1.98	0.46
1:AY:151:SER:C	1:AY:153:ALA:H	2.19	0.46
1:A0:112:PRO:HB2	3:D2:223:PRO:HB3	1.98	0.46
1:AW:112:PRO:HB2	3:DY:223:PRO:HB3	1.98	0.46
1:AY:112:PRO:HB2	3:D0:223:PRO:HB3	1.97	0.46
1:AN:183:THR:HA	1:AN:186:TRP:HB3	1.99	0.46
1:AA:183:THR:HA	1:AA:186:TRP:HB3	1.98	0.46
1:AK:183:THR:HA	1:AK:186:TRP:HB3	1.98	0.46

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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	0.46
1:A0:183:THR:HA	1:A0:186:TRP:HB3	1.98	0.46
1:AA:184:TYR:CE2	2:CC:139:ALA:HB2	104.02	0.46
2:CI:134:HIS:HB3	2:CI:135:THR:H	1.47	0.46
1:AK:184:TYR:CE2	2:CM:139:ALA:HB2	104.02	0.46
1:AH:184:TYR:CE2	2:CH:139:ALA:HB2	2.51	0.46
1:AN:184:TYR:CE2	2:CB:139:ALA:HB2	207.64	0.46
2:CL:135:THR:HG23	2:CL:145:LEU:HD11	1.99	0.46
1:BD:113:THR:O	1:BD:114:LYS:C	2.55	0.46
1:AD:113:THR:O	1:AD:114:LYS:C	2.55	0.46
1:AW:184:TYR:CE2	2:CX:139:ALA:HB2	2.51	0.46
1:A0:113:THR:O	1:A0:114:LYS:C	2.54	0.46
1:AF:113:THR:O	1:AF:114:LYS:C	2.55	0.46
1:AV:113:THR:O	1:AV:114:LYS:C	2.55	0.46
1:AK:113:THR:O	1:AK:114:LYS:C	2.55	0.46
2:CP:160:HIS:HE2	3:DP:51:TYR:HE1	1.64	0.46
2:CY:152:TYR:HB2	2:CY:197:LEU:HD22	1.98	0.46
2:CQ:13:ARG:HD3	2:CQ:13:ARG:HA	1.72	0.46
3:DO:108:PHE:O	3:DO:153:ALA:HA	2.15	0.46
1:AS:170:PHE:CD2	1:AS:222:ARG:CZ	2.87	0.46
2:CG:108:TRP:O	2:CG:218:ILE:HD12	2.16	0.46
1:AV:184:TYR:CE2	2:CW:139:ALA:HB2	2.51	0.46
2:CS:108:TRP:O	2:CS:218:ILE:HD12	2.17	0.46
1:AI:165:ARG:HG2	2:CI:180:PRO:O	2.16	0.46
1:AQ:184:TYR:CE2	2:CQ:139:ALA:HB2	2.51	0.46
1:BG:165:ARG:HG2	2:CV:180:PRO:O	232.52	0.46
1:BB:219:TYR:HD2	3:DQ:39:ARG:HB2	113.44	0.46
3:DS:56:ILE:CG1	3:DS:74:PHE:CE1	2.98	0.46
1:AZ:184:TYR:CE2	2:C0:139:ALA:HB2	2.51	0.46
1:AE:43:LEU:HD23	1:AE:43:LEU:H	1.81	0.46
1:BB:46:SER:HB2	1:BB:197:LEU:O	2.15	0.46
3:EA:97:PHE:CD1	3:EA:216:LEU:HD23	2.51	0.46
3:D5:97:PHE:CD1	3:D5:216:LEU:HD23	2.51	0.46
3:D1:97:PHE:CD1	3:D1:216:LEU:HD23	2.51	0.46
3:D0:97:PHE:CD1	3:D0:216:LEU:HD23	2.51	0.46
3:DD:97:PHE:CD1	3:DD:216:LEU:HD23	2.51	0.46
2:CX:65:LYS:CB	3:DO:135:ARG:HH21	213.84	0.46
2:CN:65:LYS:CB	3:D2:135:ARG:HH21	2.29	0.46
1:A3:242:ASN:ND2	1:A7:110:GLY:H	2.12	0.46
3:D9:110:PHE:HB3	3:D9:148:VAL:HG11	1.96	0.46
3:DP:110:PHE:HB3	3:DP:148:VAL:HG11	1.96	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:CA:23:ILE:HD12	2:CA:23:ILE:H	1.80	0.46
2:CP:23:ILE:HD12	2:CP:23:ILE:H	1.80	0.46
4:FA:25:PHE:HZ	4:FB:22:VAL:HG11	1.81	0.46
4:F9:25:PHE:HZ	4:FA:22:VAL:HG11	207.52	0.46
4:FM:25:PHE:HZ	4:FN:22:VAL:HG11	1.81	0.46
4:FK:25:PHE:HZ	4:FL:22:VAL:HG11	1.81	0.46
4:F6:25:PHE:HZ	4:F7:22:VAL:HG11	1.81	0.46
3:DG:122:VAL:HG22	3:DG:123:ALA:N	2.30	0.46
3:ED:122:VAL:HA	3:ED:185:VAL:HA	1.97	0.46
3:DX:172:ALA:O	3:DX:178:ASN:OD1	2.34	0.46
3:D9:172:ALA:O	3:D9:178:ASN:OD1	2.34	0.46
3:DM:154:PHE:CG	3:DM:155:SER:N	2.84	0.46
3:DE:154:PHE:CG	3:DE:155:SER:N	2.84	0.46
3:DQ:154:PHE:CG	3:DQ:155:SER:N	2.84	0.46
3:D7:154:PHE:CG	3:D7:155:SER:N	2.84	0.46
1:AL:107:PHE:HB2	1:AL:194:SER:OG	2.16	0.46
2:CG:92:GLY:HA3	2:CT:228:ASN:OD1	237.32	0.46
2:CI:228:ASN:OD1	2:CN:92:GLY:HA3	235.07	0.46
2:CH:228:ASN:OD1	2:CR:92:GLY:HA3	160.04	0.46
2:CO:228:ASN:OD1	2:CT:92:GLY:HA3	2.16	0.46
1:A7:22:VAL:CG1	1:A7:23:ASP:N	2.79	0.46
1:A8:22:VAL:CG1	1:A8:23:ASP:N	2.79	0.46
1:AB:22:VAL:CG1	1:AB:23:ASP:N	2.79	0.46
1:AE:22:VAL:CG1	1:AE:23:ASP:N	2.79	0.46
3:DV:198:VAL:HG23	3:DV:199:ASN:H	1.81	0.46
3:DE:195:ASP:HB2	3:DE:198:VAL:HG22	1.98	0.46
1:AT:22:VAL:C	1:AT:24:MET:H	2.18	0.46
4:FU:32:ASN:HB3	4:FU:33:SER:H	1.58	0.46
3:D4:195:ASP:HB2	3:D4:198:VAL:HG22	1.98	0.46
3:DG:195:ASP:HB2	3:DG:198:VAL:HG22	1.98	0.46
1:BH:45:LEU:HB2	1:BH:202:HIS:HA	1.98	0.46
3:DQ:85:LEU:O	3:DQ:91:ALA:CB	2.64	0.46
3:DA:195:ASP:HB2	3:DA:198:VAL:HG22	1.98	0.46
2:CU:42:ARG:HA	2:CU:43:PRO:HD2	1.65	0.46
3:D6:84:GLU:OE1	3:D6:84:GLU:N	2.48	0.46
1:BB:225:PRO:HA	1:BB:226:PRO:HD2	1.87	0.46
3:EB:195:ASP:HB2	3:EB:198:VAL:HG22	1.98	0.46
3:D9:195:ASP:HB2	3:D9:198:VAL:HG22	1.98	0.46
3:D8:85:LEU:O	3:D8:91:ALA:CB	2.64	0.46
3:DJ:85:LEU:O	3:DJ:91:ALA:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DX:117:LYS:O	3:DX:191:LEU:HD22	2.15	0.45
3:ED:120:PHE:HD2	3:ED:146:TRP:CH2	2.34	0.45
2:C7:63:THR:CG2	3:DM:188:LEU:HD21	146.49	0.45
2:C7:212:THR:HG23	3:DM:188:LEU:HD22	149.83	0.45
3:EE:120:PHE:HD2	3:EE:146:TRP:CH2	2.34	0.45
2:CD:63:THR:CG2	3:D4:188:LEU:HD21	140.18	0.45
2:CQ:115:ASN:HB2	3:DP:189:THR:HG22	114.95	0.45
3:EB:117:LYS:O	3:EB:191:LEU:HD22	2.15	0.45
2:C0:115:ASN:HD22	3:DQ:190:ALA:C	2.17	0.45
3:D0:160:TYR:HD1	3:D0:161:SER:N	2.13	0.45
1:AA:151:SER:C	1:AA:153:ALA:H	2.19	0.45
1:AB:82:LEU:CD2	1:AB:84:LEU:HD11	2.46	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:AG:137:GLY:HA2	1:AH:38:PHE:CD1	2.48	0.45
1:AI:151:SER:C	1:AI:153:ALA:H	2.19	0.45
1:AK:82:LEU:CD2	1:AK:84:LEU:HD11	2.46	0.45
1:AL:82:LEU:CD2	1:AL:84:LEU:HD11	2.46	0.45
1:AM:137:GLY:HA2	1:BA:38:PHE:CD1	204.00	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:BA:151:SER:C	1:BA:153:ALA:H	2.19	0.45
1:BA:82:LEU:CD2	1:BA:84:LEU:HD11	2.46	0.45
1:BI:82:LEU:CD2	1:BI:84:LEU:HD11	2.46	0.45
3:D9:13:SER:OG	3:D9:15:MET:CE	2.64	0.45
3:DA:13:SER:OG	3:DA:15:MET:CE	2.64	0.45
3:DC:13:SER:OG	3:DC:15:MET:CE	2.64	0.45
3:DE:13:SER:OG	3:DE:15:MET:CE	2.64	0.45
3:DI:13:SER:OG	3:DI:15:MET:CE	2.64	0.45
3:DR:13:SER:OG	3:DR:15:MET:CE	2.64	0.45
3:EA:13:SER:OG	3:EA:15:MET:CE	2.65	0.45
3:EB:25:LEU:HD21	3:EC:15:MET:HG2	1.97	0.45
1:BG:121:LEU:HD13	1:BG:121:LEU:C	2.36	0.45
1:A9:112:PRO:HB2	3:DB:223:PRO:HB3	261.43	0.45
1:AC:112:PRO:HB2	3:DF:223:PRO:HB3	135.38	0.45
1:AM:112:PRO:HB2	3:DN:223:PRO:HB3	1.98	0.45
1:AG:112:PRO:HB2	3:DE:223:PRO:HB3	157.51	0.45
1:AG:112:PRO:HB2	3:DH:223:PRO:HB3	1.97	0.45
3:D6:13:SER:OG	3:D6:15:MET:CE	2.64	0.45
1:A1:121:LEU:C	1:A1:121:LEU:HD13	2.36	0.45
1:A1:151:SER:C	1:A1:153:ALA:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:82:LEU:CD2	1:A1:84:LEU:HD11	2.46	0.45
1:AY:82:LEU:CD2	1:AY:84:LEU:HD11	2.46	0.45
1:A6:151:SER:C	1:A6:153:ALA:H	2.19	0.45
1:A3:183:THR:HA	1:A3:186:TRP:HB3	1.98	0.45
1:AG:184:TYR:CE2	2:CI:139:ALA:HB2	104.02	0.45
1:A9:184:TYR:CE2	2:CA:139:ALA:HB2	264.00	0.45
2:CA:135:THR:HG23	2:CA:145:LEU:HD11	1.99	0.45
1:AM:184:TYR:CE2	2:CM:139:ALA:HB2	2.51	0.45
1:A6:184:TYR:CE2	2:C7:139:ALA:HB2	2.51	0.45
1:AJ:184:TYR:CE2	2:CL:139:ALA:HB2	265.03	0.45
1:AH:184:TYR:CE2	2:CJ:139:ALA:HB2	104.02	0.45
1:AJ:184:TYR:CE2	2:CJ:139:ALA:HB2	2.51	0.45
1:A6:113:THR:O	1:A6:114:LYS:C	2.55	0.45
2:CN:160:HIS:HE2	3:DN:51:TYR:HE1	1.64	0.45
2:CD:160:HIS:HE2	3:DD:51:TYR:HE1	1.64	0.45
1:AI:113:THR:O	1:AI:114:LYS:C	2.55	0.45
1:AW:113:THR:O	1:AW:114:LYS:C	2.55	0.45
2:CW:152:TYR:HB2	2:CW:197:LEU:HD22	1.98	0.45
2:CF:108:TRP:O	2:CF:218:ILE:HD12	2.17	0.45
2:CA:108:TRP:O	2:CA:218:ILE:HD12	2.17	0.45
2:CU:83:LEU:HA	2:CU:84:PRO:HA	1.60	0.45
2:C6:84:PRO:HG2	2:C6:88:LEU:HG	1.97	0.45
2:CO:108:TRP:O	2:CO:218:ILE:HD12	2.16	0.45
1:AL:165:ARG:HG2	2:CL:180:PRO:O	2.16	0.45
1:AG:165:ARG:HG2	2:CI:180:PRO:O	79.97	0.45
1:AK:165:ARG:HG2	2:CM:180:PRO:O	79.97	0.45
1:AC:165:ARG:HG2	2:CE:180:PRO:O	79.97	0.45
2:CR:180:PRO:HD2	2:CR:189:HIS:HE1	1.76	0.45
2:CZ:163:LEU:HD21	2:CZ:169:SER:C	2.36	0.45
1:AY:165:ARG:HG2	2:CZ:180:PRO:O	2.16	0.45
1:A2:165:ARG:HG2	2:C3:180:PRO:O	2.16	0.45
3:D0:56:ILE:CG1	3:D0:74:PHE:CE1	2.98	0.45
2:CU:135:THR:HG23	2:CU:145:LEU:HD11	1.98	0.45
2:CW:75:HIS:NE2	3:DW:59:LYS:HB3	2.31	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
2:CI:75:HIS:NE2	3:DI:59:LYS:HB3	2.30	0.45
1:AF:46:SER:HB2	1:AF:197:LEU:O	2.15	0.45
3:DG:97:PHE:CD1	3:DG:216:LEU:HD23	2.51	0.45
3:DM:97:PHE:CD1	3:DM:216:LEU:HD23	2.51	0.45
3:DB:97:PHE:CD1	3:DB:216:LEU:HD23	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:97:PHE:CD1	3:EB:216:LEU:HD23	2.51	0.45
1:BB:110:GLY:H	1:BC:242:ASN:ND2	2.12	0.45
4:FS:25:PHE:HZ	4:FT:22:VAL:HG11	1.81	0.45
4:FL:25:PHE:HZ	4:FM:22:VAL:HG11	1.81	0.45
4:F5:25:PHE:HZ	4:F6:22:VAL:HG11	1.81	0.45
4:F0:25:PHE:HZ	4:F1:22:VAL:HG11	1.81	0.45
2:CJ:129:VAL:HA	2:CJ:130:PRO:HD3	1.78	0.45
2:C9:36:TYR:CE2	2:C9:130:PRO:CG	2.98	0.45
3:EA:122:VAL:HG22	3:EA:123:ALA:N	2.30	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:DS:172:ALA:O	3:DS:178:ASN:OD1	2.35	0.45
3:D0:172:ALA:O	3:D0:178:ASN:OD1	2.34	0.45
3:DV:122:VAL:HG22	3:DV:123:ALA:N	2.30	0.45
3:DX:122:VAL:HG22	3:DX:123:ALA:N	2.30	0.45
3:DV:172:ALA:O	3:DV:178:ASN:OD1	2.35	0.45
3:DH:154:PHE:CG	3:DH:155:SER:N	2.84	0.45
3:DB:154:PHE:CG	3:DB:155:SER:N	2.84	0.45
1:A8:107:PHE:HB2	1:A8:194:SER:OG	2.17	0.45
1:AE:107:PHE:HB2	1:AE:194:SER:OG	2.16	0.45
1:AA:107:PHE:HB2	1:AA:194:SER:OG	2.17	0.45
3:D0:154:PHE:CG	3:D0:155:SER:N	2.84	0.45
3:DL:154:PHE:CG	3:DL:155:SER:N	2.84	0.45
2:C2:228:ASN:OD1	2:CG:92:GLY:HA3	258.20	0.45
2:CA:92:GLY:HA3	2:CK:228:ASN:OD1	258.20	0.45
2:CB:228:ASN:OD1	2:CS:92:GLY:HA3	258.08	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:CC:92:GLY:HA3	2:CV:228:ASN:OD1	138.85	0.45
2:CQ:228:ASN:OD1	2:CX:92:GLY:HA3	141.02	0.45
1:AK:107:PHE:HB2	1:AK:194:SER:OG	2.16	0.45
1:AD:107:PHE:HB2	1:AD:194:SER:OG	2.16	0.45
1:AN:107:PHE:HB2	1:AN:194:SER:OG	2.16	0.45
1:AI:107:PHE:HB2	1:AI:194:SER:OG	2.16	0.45
1:AM:107:PHE:HB2	1:AM:194:SER:OG	2.17	0.45
1:AU:107:PHE:HB2	1:AU:194:SER:OG	2.16	0.45
2:C4:92:GLY:HA3	2:CU:228:ASN:OD1	258.20	0.45
1:AK:22:VAL:CG1	1:AK:23:ASP:N	2.79	0.45
1:AA:22:VAL:CG1	1:AA:23:ASP:N	2.79	0.45
1:AQ:22:VAL:CG1	1:AQ:23:ASP:N	2.79	0.45
1:AN:22:VAL:CG1	1:AN:23:ASP:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:198:VAL:HG23	3:DH:199:ASN:H	1.82	0.45
1:AR:22:VAL:C	1:AR:24:MET:H	2.18	0.45
3:DT:85:LEU:O	3:DT:91:ALA:CB	2.65	0.45
1:AQ:45:LEU:HB2	1:AQ:202:HIS:HA	1.98	0.45
3:D5:36:VAL:HA	3:D5:37:PRO:HD3	1.53	0.45
1:A2:22:VAL:CG1	1:A2:23:ASP:N	2.79	0.45
3:D6:85:LEU:O	3:D6:91:ALA:CB	2.64	0.45
3:DN:85:LEU:O	3:DN:91:ALA:CB	2.64	0.45
3:DF:85:LEU:O	3:DF:91:ALA:CB	2.65	0.45
3:DO:85:LEU:O	3:DO:91:ALA:CB	2.65	0.45
1:BF:22:VAL:C	1:BF:24:MET:H	2.18	0.45
1:AE:45:LEU:HB2	1:AE:202:HIS:HA	1.98	0.45
1:AV:45:LEU:HB2	1:AV:202:HIS:HA	1.98	0.45
3:DC:195:ASP:HB2	3:DC:198:VAL:HG22	1.98	0.45
3:DI:85:LEU:O	3:DI:91:ALA:CB	2.64	0.45
3:DA:85:LEU:O	3:DA:91:ALA:CB	2.64	0.45
3:DS:85:LEU:O	3:DS:91:ALA:CB	2.64	0.45
2:CI:115:ASN:HD22	3:DX:190:ALA:C	2.17	0.45
2:CK:216:ALA:HA	2:CK:217:PRO:HD3	1.78	0.45
3:DA:120:PHE:HD2	3:DA:146:TRP:CH2	2.34	0.45
2:CM:63:THR:CG2	3:DI:188:LEU:HD21	253.65	0.45
2:CX:115:ASN:HD22	3:DO:190:ALA:C	220.73	0.45
2:CG:63:THR:CG2	3:EB:188:LEU:HD21	2.47	0.45
2:CN:63:THR:CG2	3:D2:188:LEU:HD21	2.47	0.45
2:CP:115:ASN:HD22	3:D0:190:ALA:C	91.31	0.45
3:D0:117:LYS:O	3:D0:191:LEU:HD22	2.15	0.45
3:D6:120:PHE:HD2	3:D6:146:TRP:CH2	2.34	0.45
1:A8:82:LEU:CD2	1:A8:84:LEU:HD11	2.46	0.45
1:A9:139:SER:HA	1:A9:140:PRO:HD3	1.62	0.45
1:AQ:137:GLY:HA2	1:AR:38:PHE:CD1	2.48	0.45
1:AQ:151:SER:C	1:AQ:153:ALA:H	2.19	0.45
1:AR:82:LEU:CD2	1:AR:84:LEU:HD11	2.46	0.45
1:AS:82:LEU:CD2	1:AS:84:LEU:HD11	2.46	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:BG:149:SER:C	1:BG:151:SER:H	2.18	0.45
1:BH:121:LEU:C	1:BH:121:LEU:HD13	2.36	0.45
3:D9:15:MET:HG2	3:DD:25:LEU:HD21	204.70	0.45
3:DD:13:SER:OG	3:DD:15:MET:CE	2.64	0.45
3:DF:13:SER:OG	3:DF:15:MET:CE	2.64	0.45
3:D4:19:PRO:HG3	4:F4:17:ASN:ND2	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:149:SER:C	1:A4:151:SER:H	2.18	0.45
1:AL:112:PRO:HB2	3:DM:223:PRO:HB3	1.98	0.45
1:AS:112:PRO:HB2	3:DP:223:PRO:HB3	1.98	0.45
3:DX:220:VAL:HG12	3:DX:221:ASP:O	2.15	0.45
3:D6:220:VAL:HG12	3:D6:221:ASP:O	2.15	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:A2:84:LEU:CD2	1:A2:209:LEU:HD11	2.45	0.45
3:DZ:13:SER:OG	3:DZ:15:MET:CE	2.64	0.45
1:AP:112:PRO:HB2	3:DQ:223:PRO:HB3	1.98	0.45
1:A6:183:THR:HA	1:A6:186:TRP:HB3	1.98	0.45
1:AB:183:THR:HA	1:AB:186:TRP:HB3	1.98	0.45
1:AO:183:THR:HA	1:AO:186:TRP:HB3	1.98	0.45
3:D7:13:SER:OG	3:D7:15:MET:CE	2.64	0.45
1:A1:183:THR:HA	1:A1:186:TRP:HB3	1.98	0.45
1:AR:183:THR:HA	1:AR:186:TRP:HB3	1.98	0.45
3:D3:220:VAL:HG12	3:D3:221:ASP:O	2.15	0.45
1:AU:184:TYR:CE2	2:CV:139:ALA:HB2	2.51	0.45
2:CK:135:THR:HG23	2:CK:145:LEU:HD11	1.99	0.45
1:AI:184:TYR:CE2	2:CK:139:ALA:HB2	280.44	0.45
2:CD:135:THR:HG23	2:CD:145:LEU:HD11	1.98	0.45
1:AF:184:TYR:CE2	2:CH:139:ALA:HB2	104.02	0.45
2:CN:135:THR:HG23	2:CN:145:LEU:HD11	1.99	0.45
1:AL:113:THR:O	1:AL:114:LYS:C	2.55	0.45
1:AT:113:THR:O	1:AT:114:LYS:C	2.55	0.45
1:BF:113:THR:O	1:BF:114:LYS:C	2.55	0.45
1:AA:113:THR:O	1:AA:114:LYS:C	2.55	0.45
1:A8:113:THR:O	1:A8:114:LYS:C	2.54	0.45
1:A7:113:THR:O	1:A7:114:LYS:C	2.55	0.45
1:AU:113:THR:O	1:AU:114:LYS:C	2.55	0.45
2:CY:160:HIS:HE2	3:DY:51:TYR:HE1	1.64	0.45
3:DP:108:PHE:O	3:DP:153:ALA:HA	2.16	0.45
2:C6:13:ARG:HD3	2:C6:13:ARG:HA	1.72	0.45
2:C3:152:TYR:HB2	2:C3:197:LEU:HD22	1.97	0.45
2:CE:13:ARG:HD3	2:CE:13:ARG:HA	1.72	0.45
2:C2:152:TYR:HB2	2:C2:197:LEU:HD22	1.97	0.45
1:A2:170:PHE:CD2	1:A2:222:ARG:CZ	2.87	0.45
2:CM:108:TRP:O	2:CM:218:ILE:HD12	2.17	0.45
2:CU:108:TRP:O	2:CU:218:ILE:HD12	2.17	0.45
2:CR:108:TRP:O	2:CR:218:ILE:HD12	2.17	0.45
2:C7:108:TRP:O	2:C7:218:ILE:HD12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:108:TRP:O	2:C2:218:ILE:HD12	2.16	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:CJ:108:TRP:O	2:CJ:218:ILE:HD12	2.17	0.45
1:AN:165:ARG:HG2	2:CB:180:PRO:O	190.11	0.45
2:C9:84:PRO:HG2	2:C9:88:LEU:HG	1.97	0.45
1:AI:165:ARG:HG2	2:CK:180:PRO:O	247.49	0.45
1:AK:219:TYR:HD2	3:DM:39:ARG:HB2	74.53	0.45
2:CB:108:TRP:O	2:CB:218:ILE:HD12	2.16	0.45
2:CP:163:LEU:HD21	2:CP:169:SER:C	2.36	0.45
2:CU:75:HIS:NE2	3:EB:59:LYS:HB3	260.94	0.45
1:A1:184:TYR:CE2	2:C2:139:ALA:HB2	2.51	0.45
2:C4:75:HIS:NE2	3:D4:59:LYS:HB3	2.30	0.45
2:C8:78:ALA:HB1	2:C8:195:VAL:HG12	1.99	0.45
3:D6:56:ILE:CG1	3:D6:74:PHE:CE1	2.98	0.45
3:DC:56:ILE:CG1	3:DC:74:PHE:CE1	2.98	0.45
2:CQ:78:ALA:HB1	2:CQ:195:VAL:HG12	1.99	0.45
1:AB:43:LEU:H	1:AB:43:LEU:HD23	1.81	0.45
3:DR:97:PHE:CD1	3:DR:216:LEU:HD23	2.51	0.45
3:D2:97:PHE:CD1	3:D2:216:LEU:HD23	2.51	0.45
3:DZ:97:PHE:CD1	3:DZ:216:LEU:HD23	2.51	0.45
3:DY:97:PHE:CD1	3:DY:216:LEU:HD23	2.51	0.45
3:D6:97:PHE:CD1	3:D6:216:LEU:HD23	2.51	0.45
1:AE:109:VAL:HG22	1:AE:191:HIS:HD2	1.82	0.45
2:CP:65:LYS:CB	3:D0:135:ARG:HH21	91.23	0.45
2:CI:65:LYS:CB	3:DJ:135:ARG:HH21	47.16	0.45
1:BE:109:VAL:HG22	1:BE:191:HIS:HD2	1.82	0.45
2:CF:23:ILE:HD12	2:CF:23:ILE:H	1.80	0.45
4:FE:22:VAL:HG11	4:FI:25:PHE:HZ	113.54	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
1:BI:225:PRO:HA	1:BI:226:PRO:HD2	1.88	0.45
2:C1:129:VAL:HA	2:C1:130:PRO:HD3	1.77	0.45
3:DP:122:VAL:HA	3:DP:185:VAL:HA	1.97	0.45
3:D8:122:VAL:HG22	3:D8:123:ALA:N	2.30	0.45
3:DF:172:ALA:O	3:DF:178:ASN:OD1	2.35	0.45
3:DH:172:ALA:O	3:DH:178:ASN:OD1	2.34	0.45
3:DA:172:ALA:O	3:DA:178:ASN:OD1	2.34	0.45
3:DE:172:ALA:O	3:DE:178:ASN:OD1	2.35	0.45
3:DO:172:ALA:O	3:DO:178:ASN:OD1	2.34	0.45
3:DR:172:ALA:O	3:DR:178:ASN:OD1	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D6:172:ALA:O	3:D6:178:ASN:OD1	2.34	0.45
3:D1:172:ALA:O	3:D1:178:ASN:OD1	2.35	0.45
3:ED:172:ALA:O	3:ED:178:ASN:OD1	2.35	0.45
3:DY:172:ALA:O	3:DY:178:ASN:OD1	2.35	0.45
3:DR:154:PHE:CG	3:DR:155:SER:N	2.85	0.45
3:DT:154:PHE:CG	3:DT:155:SER:N	2.84	0.45
3:EA:154:PHE:CG	3:EA:155:SER:N	2.84	0.45
3:DG:154:PHE:CG	3:DG:155:SER:N	2.84	0.45
3:DK:154:PHE:CG	3:DK:155:SER:N	2.84	0.45
1:A4:107:PHE:HB2	1:A4:194:SER:OG	2.16	0.45
2:C1:92:GLY:HA3	2:CN:228:ASN:OD1	2.16	0.45
2:C7:92:GLY:HA3	2:CL:228:ASN:OD1	141.02	0.45
1:AB:107:PHE:HB2	1:AB:194:SER:OG	2.17	0.45
1:AH:107:PHE:HB2	1:AH:194:SER:OG	2.17	0.45
1:BF:107:PHE:HB2	1:BF:194:SER:OG	2.16	0.45
1:AH:22:VAL:CG1	1:AH:23:ASP:N	2.79	0.45
1:BH:22:VAL:CG1	1:BH:23:ASP:N	2.79	0.45
3:DK:198:VAL:HG23	3:DK:199:ASN:H	1.82	0.45
1:BA:22:VAL:CG1	1:BA:23:ASP:N	2.79	0.45
3:ED:198:VAL:HG23	3:ED:199:ASN:H	1.81	0.45
3:DE:198:VAL:HG23	3:DE:199:ASN:H	1.82	0.45
1:BF:45:LEU:HB2	1:BF:202:HIS:HA	1.98	0.45
1:AZ:22:VAL:C	1:AZ:24:MET:H	2.18	0.45
3:DT:195:ASP:HB2	3:DT:198:VAL:HG22	1.98	0.45
4:FR:32:ASN:HB3	4:FR:33:SER:H	1.58	0.45
3:DD:85:LEU:O	3:DD:91:ALA:CB	2.64	0.45
3:D6:195:ASP:HB2	3:D6:198:VAL:HG22	1.98	0.45
4:FX:32:ASN:HB3	4:FX:33:SER:H	1.58	0.45
1:A2:45:LEU:HB2	1:A2:202:HIS:HA	1.98	0.45
3:DH:85:LEU:O	3:DH:91:ALA:CB	2.64	0.45
1:AX:45:LEU:HB2	1:AX:202:HIS:HA	1.98	0.45
3:D2:195:ASP:HB2	3:D2:198:VAL:HG22	1.98	0.45
2:CW:212:THR:HG23	3:DS:188:LEU:HD22	240.56	0.45
3:D7:117:LYS:O	3:D7:191:LEU:HD22	2.15	0.45
2:CA:216:ALA:HA	2:CA:217:PRO:HD3	1.78	0.45
2:CE:207:GLN:HB3	3:DC:196:ILE:CG2	165.16	0.45
2:CE:63:THR:CG2	3:DC:188:LEU:HD21	144.88	0.45
2:CE:115:ASN:CA	3:DC:119:LYS:HZ3	152.44	0.45
2:CF:49:ASP:HA	2:CF:50:PRO:HD2	1.80	0.45
2:C2:46:THR:CG2	3:D3:165:ASP:HA	2.38	0.45
3:DX:101:ARG:HG2	3:DX:101:ARG:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D4:101:ARG:HG2	3:D4:101:ARG:O	2.17	0.45
3:D8:103:SER:HB2	3:D8:159:PRO:HA	1.95	0.45
1:AG:146:ILE:HD13	1:AG:146:ILE:HG21	1.74	0.45
1:AA:38:PHE:CD1	1:AN:137:GLY:HA2	243.89	0.45
1:AP:137:GLY:HA2	1:AQ:38:PHE:CD1	2.48	0.45
1:AP:82:LEU:CD2	1:AP:84:LEU:HD11	2.46	0.45
1:BA:139:SER:HA	1:BA:140:PRO:HD3	1.62	0.45
3:DL:13:SER:OG	3:DL:15:MET:CE	2.64	0.45
3:DR:8:VAL:CG1	3:DR:9:PRO:HD2	2.39	0.45
3:DV:13:SER:OG	3:DV:15:MET:CE	2.64	0.45
3:DN:19:PRO:HB3	4:FM:30:TYR:CD2	2.52	0.45
1:BG:101:PHE:CD2	1:BG:143:VAL:HG11	2.44	0.45
3:D7:19:PRO:HB3	4:F6:30:TYR:CD2	2.52	0.45
1:A0:121:LEU:C	1:A0:121:LEU:HD13	2.36	0.45
1:A0:151:SER:C	1:A0:153:ALA:H	2.19	0.45
1:A1:149:SER:C	1:A1:151:SER:H	2.18	0.45
3:D1:13:SER:OG	3:D1:15:MET:CE	2.64	0.45
1:AY:146:ILE:HD13	1:AY:146:ILE:HG21	1.74	0.45
3:DW:220:VAL:HG12	3:DW:221:ASP:O	2.15	0.45
1:A7:112:PRO:HB2	3:D4:223:PRO:HB3	1.98	0.45
1:AI:183:THR:HA	1:AI:186:TRP:HB3	1.98	0.45
1:AJ:183:THR:HA	1:AJ:186:TRP:HB3	1.98	0.45
1:AM:183:THR:HA	1:AM:186:TRP:HB3	1.98	0.45
1:A4:183:THR:HA	1:A4:186:TRP:HB3	1.98	0.45
1:AP:183:THR:HA	1:AP:186:TRP:HB3	1.98	0.45
1:AC:184:TYR:CE2	2:CC:139:ALA:HB2	2.51	0.45
2:CG:135:THR:HG23	2:CG:145:LEU:HD11	1.98	0.45
1:AB:184:TYR:CE2	2:CB:139:ALA:HB2	2.51	0.45
1:AN:184:TYR:CE2	2:CN:139:ALA:HB2	2.51	0.45
1:AC:113:THR:O	1:AC:114:LYS:C	2.55	0.45
2:CX:135:THR:HG23	2:CX:145:LEU:HD11	1.99	0.45
1:AN:113:THR:O	1:AN:114:LYS:C	2.55	0.45
2:CP:135:THR:HG23	2:CP:145:LEU:HD11	1.99	0.45
3:D9:108:PHE:O	3:D9:153:ALA:HA	2.15	0.45
2:C2:13:ARG:HA	2:C2:13:ARG:HD3	1.72	0.45
1:AT:170:PHE:CD2	1:AT:222:ARG:CZ	2.87	0.45
2:C0:83:LEU:HA	2:C0:84:PRO:HA	1.60	0.45
2:C6:84:PRO:HG3	2:C6:108:TRP:CH2	2.50	0.45
2:CI:108:TRP:O	2:CI:218:ILE:HD12	2.17	0.45
2:CW:135:THR:HG23	2:CW:145:LEU:HD11	1.99	0.45
2:CZ:84:PRO:HG2	2:CZ:88:LEU:HG	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:165:ARG:HG2	2:C8:180:PRO:O	2.16	0.45
1:AJ:165:ARG:HG2	2:CL:180:PRO:O	235.06	0.45
1:AG:219:TYR:HD2	3:DG:39:ARG:HB2	1.79	0.45
3:DG:56:ILE:CG1	3:DG:74:PHE:CE1	2.98	0.45
2:C5:84:PRO:HG2	2:C5:88:LEU:HG	1.97	0.45
3:DZ:56:ILE:CG1	3:DZ:74:PHE:CE1	2.98	0.45
2:C6:78:ALA:HB1	2:C6:195:VAL:HG12	1.99	0.45
1:BF:184:TYR:CE2	2:CU:139:ALA:HB2	264.00	0.45
2:CR:135:THR:HG23	2:CR:145:LEU:HD11	1.99	0.45
2:CM:75:HIS:HA	2:CM:198:ILE:O	2.17	0.45
2:CD:163:LEU:HD21	2:CD:169:SER:C	2.36	0.45
1:AT:165:ARG:HG2	2:CU:180:PRO:O	2.16	0.45
2:CB:75:HIS:HA	2:CB:198:ILE:O	2.17	0.45
3:DN:97:PHE:CD1	3:DN:216:LEU:HD23	2.51	0.45
3:DF:97:PHE:CD1	3:DF:216:LEU:HD23	2.51	0.45
3:DH:97:PHE:CD1	3:DH:216:LEU:HD23	2.51	0.45
3:DS:97:PHE:CD1	3:DS:216:LEU:HD23	2.51	0.45
3:DW:97:PHE:CD1	3:DW:216:LEU:HD23	2.51	0.45
1:AN:109:VAL:HG22	1:AN:191:HIS:HD2	1.82	0.45
1:AO:242:ASN:ND2	1:AR:110:GLY:H	157.88	0.45
1:AU:109:VAL:HG22	1:AU:191:HIS:HD2	1.82	0.45
1:AM:110:GLY:H	1:BA:242:ASN:ND2	216.56	0.45
1:AQ:109:VAL:HG22	1:AQ:191:HIS:HD2	1.82	0.45
3:DS:110:PHE:HB3	3:DS:148:VAL:HG11	1.96	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:CY:23:ILE:H	2:CY:23:ILE:HD12	1.80	0.45
4:FE:25:PHE:HZ	4:FF:22:VAL:HG11	113.98	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:F1:25:PHE:HZ	4:F2:22:VAL:HG11	1.81	0.45
4:FP:25:PHE:HZ	4:FQ:22:VAL:HG11	1.81	0.45
2:CV:129:VAL:HA	2:CV:130:PRO:HD3	1.78	0.45
3:DJ:172:ALA:O	3:DJ:178:ASN:OD1	2.34	0.45
3:DL:172:ALA:O	3:DL:178:ASN:OD1	2.35	0.45
3:DN:172:ALA:O	3:DN:178:ASN:OD1	2.34	0.45
3:D3:122:VAL:HG22	3:D3:123:ALA:N	2.30	0.45
3:D7:122:VAL:HA	3:D7:185:VAL:HA	1.97	0.45
3:DX:154:PHE:CG	3:DX:155:SER:N	2.84	0.45
3:D7:172:ALA:O	3:D7:178:ASN:OD1	2.35	0.45
3:D2:154:PHE:CG	3:D2:155:SER:N	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DS:154:PHE:CG	3:DS:155:SER:N	2.85	0.45
3:DJ:154:PHE:CG	3:DJ:155:SER:N	2.85	0.45
1:AF:107:PHE:HB2	1:AF:194:SER:OG	2.16	0.45
2:CH:92:GLY:HA3	2:CR:228:ASN:OD1	160.04	0.45
2:C8:228:ASN:OD1	2:CD:92:GLY:HA3	134.64	0.45
2:C0:228:ASN:OD1	2:CP:92:GLY:HA3	2.16	0.45
2:CP:92:GLY:HA3	2:CZ:228:ASN:OD1	82.73	0.45
1:BA:107:PHE:HB2	1:BA:194:SER:OG	2.16	0.45
3:EE:154:PHE:CG	3:EE:155:SER:N	2.84	0.45
1:A2:107:PHE:HB2	1:A2:194:SER:OG	2.17	0.45
1:AQ:107:PHE:HB2	1:AQ:194:SER:OG	2.17	0.45
1:AG:22:VAL:CG1	1:AG:23:ASP:N	2.79	0.45
1:AF:22:VAL:CG1	1:AF:23:ASP:N	2.79	0.45
3:DS:198:VAL:HG23	3:DS:199:ASN:H	1.82	0.45
1:A2:22:VAL:C	1:A2:24:MET:H	2.18	0.45
1:AZ:22:VAL:CG1	1:AZ:23:ASP:N	2.79	0.45
4:FE:16:GLY:O	4:FE:18:SER:N	2.50	0.45
3:DB:85:LEU:O	3:DB:91:ALA:CB	2.65	0.45
3:DY:195:ASP:HB2	3:DY:198:VAL:HG22	1.98	0.45
3:DV:85:LEU:O	3:DV:91:ALA:CB	2.64	0.45
4:FH:16:GLY:O	4:FH:18:SER:N	2.50	0.45
3:DW:85:LEU:O	3:DW:91:ALA:CB	2.65	0.45
3:DE:85:LEU:O	3:DE:91:ALA:CB	2.64	0.45
3:DJ:195:ASP:HB2	3:DJ:198:VAL:HG22	1.98	0.45
1:AF:56:VAL:HG13	1:AF:193:GLY:O	2.17	0.45
1:AQ:171:TYR:N	1:AQ:185:ASN:OD1	2.45	0.45
1:BF:56:VAL:HG13	1:BF:193:GLY:O	2.17	0.45
4:FB:16:GLY:O	4:FB:18:SER:N	2.50	0.45
3:D7:85:LEU:O	3:D7:91:ALA:CB	2.65	0.45
4:FC:16:GLY:O	4:FC:18:SER:N	2.50	0.45
3:EA:62:PHE:CE2	3:EA:204:VAL:HG11	2.50	0.45
2:CR:115:ASN:HD22	3:EE:190:ALA:C	2.17	0.45
2:CK:63:THR:CG2	3:DA:188:LEU:HD21	263.92	0.45
2:CD:115:ASN:CA	3:D4:119:LYS:HZ3	150.88	0.45
3:DO:120:PHE:HD2	3:DO:146:TRP:CH2	2.34	0.45
2:CX:63:THR:CG2	3:DO:188:LEU:HD21	203.69	0.45
2:CB:63:THR:CG2	3:DF:188:LEU:HD21	137.66	0.45
2:CB:63:THR:CG2	3:DT:188:LEU:HD21	253.65	0.45
3:D0:120:PHE:HD2	3:D0:146:TRP:CH2	2.34	0.45
2:CO:49:ASP:HA	2:CO:50:PRO:HD2	1.81	0.45
3:DB:101:ARG:O	3:DB:101:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:46:THR:CG2	3:DM:165:ASP:HA	2.38	0.45
3:DY:103:SER:HB2	3:DY:159:PRO:HA	1.95	0.45
3:DR:101:ARG:O	3:DR:101:ARG:HG2	2.17	0.45
1:AB:101:PHE:CD2	1:AB:143:VAL:CG1	2.91	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	135.27	0.45
1:AF:101:PHE:CD2	1:AF:143:VAL:HG11	2.44	0.45
1:AH:143:VAL:H	3:DI:14:PHE:CB	2.28	0.45
1:AH:82:LEU:CD2	1:AH:84:LEU:HD11	2.46	0.45
1:AM:143:VAL:H	3:DN:14:PHE:CB	2.28	0.45
1:AT:151:SER:C	1:AT:153:ALA:H	2.19	0.45
1:AW:101:PHE:CD2	1:AW:143:VAL:CG1	2.91	0.45
1:AW:151:SER:C	1:AW:153:ALA:H	2.19	0.45
1:AX:82:LEU:CD2	1:AX:84:LEU:HD11	2.46	0.45
1:BE:87:GLN:O	1:BE:88:PHE:CB	2.62	0.45
3:DH:13:SER:OG	3:DH:15:MET:CE	2.64	0.45
3:DN:13:SER:OG	3:DN:15:MET:CE	2.64	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
1:A3:82:LEU:CD2	1:A3:84:LEU:HD11	2.46	0.45
3:D4:19:PRO:HB3	4:F8:30:TYR:CD2	2.52	0.45
3:EE:19:PRO:HB3	4:FW:30:TYR:CD2	191.88	0.45
3:D4:25:LEU:HD21	3:D5:15:MET:HG2	1.97	0.45
1:AK:112:PRO:HB2	3:DL:223:PRO:HB3	1.98	0.45
1:AM:112:PRO:HB2	3:DP:223:PRO:HB3	135.38	0.45
1:AH:112:PRO:HB2	3:DI:223:PRO:HB3	1.98	0.45
1:AZ:45:LEU:HB2	1:AZ:202:HIS:HA	1.98	0.45
3:D3:19:PRO:HB3	4:F2:30:TYR:CD2	2.52	0.45
1:A5:112:PRO:HB2	3:D7:223:PRO:HB3	1.97	0.45
1:AL:183:THR:HA	1:AL:186:TRP:HB3	1.98	0.45
1:AD:183:THR:HA	1:AD:186:TRP:HB3	1.98	0.45
1:AQ:183:THR:HA	1:AQ:186:TRP:HB3	1.98	0.45
1:A2:183:THR:HA	1:A2:186:TRP:HB3	1.98	0.45
1:BG:183:THR:HA	1:BG:186:TRP:HB3	1.98	0.45
1:AG:184:TYR:CE2	2:CG:139:ALA:HB2	2.51	0.45
2:CF:135:THR:HG23	2:CF:145:LEU:HD11	1.99	0.45
2:CX:134:HIS:HB3	2:CX:135:THR:H	1.46	0.45
1:AJ:113:THR:O	1:AJ:114:LYS:C	2.55	0.45
1:A6:103:TRP:HB2	1:A6:198:THR:HG23	1.96	0.45
2:CK:160:HIS:HE2	3:DK:51:TYR:HE1	1.64	0.45
1:A5:103:TRP:HB2	1:A5:198:THR:HG23	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:113:THR:O	1:BB:114:LYS:C	2.55	0.45
2:CA:160:HIS:HE2	3:DA:51:TYR:HE1	1.64	0.45
2:CL:160:HIS:HE2	3:DL:51:TYR:HE1	1.64	0.45
2:CY:76:GLY:HA2	2:CY:197:LEU:HD21	1.97	0.45
2:C8:160:HIS:HE2	3:D8:51:TYR:HE1	1.64	0.45
2:CF:152:TYR:HB2	2:CF:197:LEU:HD22	1.98	0.45
3:DU:108:PHE:O	3:DU:153:ALA:HA	2.15	0.45
2:C1:152:TYR:HB2	2:C1:197:LEU:HD22	1.98	0.45
2:CR:83:LEU:HA	2:CR:84:PRO:HA	1.60	0.45
2:CL:108:TRP:O	2:CL:218:ILE:HD12	2.17	0.45
1:AB:165:ARG:HG2	2:CD:180:PRO:O	79.98	0.45
1:AB:219:TYR:HD2	3:DD:39:ARG:HB2	74.53	0.45
1:AE:165:ARG:HG2	2:CG:180:PRO:O	123.41	0.45
2:CW:108:TRP:O	2:CW:218:ILE:HD12	2.16	0.45
2:CP:75:HIS:HA	2:CP:198:ILE:O	2.17	0.45
2:CU:78:ALA:HB1	2:CU:195:VAL:HG12	1.99	0.45
1:A0:184:TYR:CE2	2:C1:139:ALA:HB2	2.51	0.45
1:A3:165:ARG:HG2	2:C4:180:PRO:O	2.16	0.45
2:CE:108:TRP:O	2:CE:218:ILE:HD12	2.17	0.45
2:CR:78:ALA:HB1	2:CR:195:VAL:HG12	1.99	0.45
3:D5:56:ILE:CG1	3:D5:74:PHE:CE1	2.98	0.45
2:C1:163:LEU:HD21	2:C1:169:SER:C	2.36	0.45
2:CH:163:LEU:HD21	2:CH:169:SER:C	2.36	0.45
2:CH:78:ALA:HB1	2:CH:195:VAL:HG12	1.99	0.45
1:A4:184:TYR:CE2	2:C5:139:ALA:HB2	2.51	0.45
2:C9:75:HIS:HA	2:C9:198:ILE:O	2.17	0.45
2:CE:75:HIS:HA	2:CE:198:ILE:O	2.17	0.45
2:CJ:78:ALA:HB1	2:CJ:195:VAL:HG12	1.99	0.45
2:CS:75:HIS:NE2	3:DS:59:LYS:HB3	2.30	0.45
2:CY:135:THR:HG23	2:CY:145:LEU:HD11	1.99	0.45
1:AA:43:LEU:H	1:AA:43:LEU:HD23	1.81	0.45
3:DV:97:PHE:CD1	3:DV:216:LEU:HD23	2.51	0.45
1:AY:43:LEU:CD2	1:AY:43:LEU:N	2.74	0.45
3:DC:97:PHE:CD1	3:DC:216:LEU:HD23	2.51	0.45
3:DJ:97:PHE:CD1	3:DJ:216:LEU:HD23	2.51	0.45
1:AH:110:GLY:H	1:AI:242:ASN:ND2	2.12	0.45
1:AB:110:GLY:H	1:AC:242:ASN:ND2	2.12	0.45
1:A2:110:GLY:H	1:AY:242:ASN:ND2	2.12	0.45
1:AP:242:ASN:ND2	1:AS:110:GLY:H	2.12	0.45
3:D2:110:PHE:HB3	3:D2:148:VAL:HG11	1.96	0.45
2:C0:23:ILE:H	2:C0:23:ILE:HD12	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:23:ILE:H	2:CH:23:ILE:HD12	1.80	0.45
2:CX:23:ILE:H	2:CX:23:ILE:HD12	1.80	0.45
4:FO:22:VAL:HG11	4:FS:25:PHE:HZ	113.54	0.45
4:FX:25:PHE:HZ	4:FY:22:VAL:HG11	1.81	0.45
4:FH:25:PHE:HZ	4:FI:22:VAL:HG11	1.81	0.45
1:AT:225:PRO:HA	1:AT:226:PRO:HD2	1.88	0.45
3:DD:172:ALA:O	3:DD:178:ASN:OD1	2.34	0.45
3:DC:172:ALA:O	3:DC:178:ASN:OD1	2.34	0.45
3:DI:154:PHE:CG	3:DI:155:SER:N	2.84	0.45
3:D8:154:PHE:CG	3:D8:155:SER:N	2.84	0.45
3:ED:154:PHE:CG	3:ED:155:SER:N	2.84	0.45
3:DD:154:PHE:CG	3:DD:155:SER:N	2.84	0.45
3:DO:154:PHE:CG	3:DO:155:SER:N	2.84	0.45
1:AT:107:PHE:HB2	1:AT:194:SER:OG	2.16	0.45
1:A7:107:PHE:HB2	1:A7:194:SER:OG	2.17	0.45
2:C8:92:GLY:HA3	2:CD:228:ASN:OD1	138.85	0.45
2:C6:92:GLY:HA3	2:CD:228:ASN:OD1	2.16	0.45
2:CB:228:ASN:OD1	2:CE:92:GLY:HA3	140.91	0.45
2:CB:92:GLY:HA3	2:CS:228:ASN:OD1	258.08	0.45
3:DD:77:ASP:O	3:DD:79:SER:N	2.50	0.45
3:DE:77:ASP:O	3:DE:79:SER:N	2.50	0.45
3:DG:77:ASP:O	3:DG:79:SER:N	2.50	0.45
3:D2:77:ASP:O	3:D2:79:SER:N	2.50	0.45
3:DP:77:ASP:O	3:DP:79:SER:N	2.50	0.45
1:A5:22:VAL:CG1	1:A5:23:ASP:N	2.79	0.45
1:AT:22:VAL:CG1	1:AT:23:ASP:N	2.79	0.45
3:D6:198:VAL:HG23	3:D6:199:ASN:H	1.82	0.45
3:D5:195:ASP:HB2	3:D5:198:VAL:HG22	1.98	0.45
4:FP:16:GLY:O	4:FP:18:SER:N	2.50	0.45
1:A5:56:VAL:HG13	1:A5:193:GLY:O	2.17	0.45
3:EA:195:ASP:HB2	3:EA:198:VAL:HG22	1.98	0.45
4:FQ:16:GLY:O	4:FQ:18:SER:N	2.50	0.45
4:F7:16:GLY:O	4:F7:18:SER:N	2.50	0.45
4:FT:16:GLY:O	4:FT:18:SER:N	2.50	0.45
1:BC:56:VAL:HG13	1:BC:193:GLY:O	2.17	0.45
1:BD:56:VAL:HG13	1:BD:193:GLY:O	2.17	0.45
1:AY:22:VAL:C	1:AY:24:MET:H	2.18	0.45
4:FS:16:GLY:O	4:FS:18:SER:N	2.50	0.45
3:EE:85:LEU:O	3:EE:91:ALA:CB	2.64	0.45
3:D0:198:VAL:HG23	3:D0:199:ASN:H	1.82	0.45
4:FU:16:GLY:O	4:FU:18:SER:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FB:32:ASN:HB3	4:FB:33:SER:H	1.58	0.45
3:DR:85:LEU:O	3:DR:91:ALA:CB	2.65	0.45
3:EC:198:VAL:HG23	3:EC:199:ASN:H	1.82	0.45
4:FV:16:GLY:O	4:FV:18:SER:N	2.50	0.45
2:CV:212:THR:HG23	3:DB:188:LEU:HD22	1.96	0.45
2:CK:212:THR:HG23	3:DB:188:LEU:HD22	255.93	0.45
2:CD:63:THR:CG2	3:D7:188:LEU:HD21	2.47	0.45
2:CQ:63:THR:CG2	3:DY:188:LEU:HD21	119.27	0.45
2:C0:63:THR:CG2	3:DQ:188:LEU:HD21	2.47	0.45
2:C6:216:ALA:HA	2:C6:217:PRO:HD3	1.78	0.45
2:CN:212:THR:HG23	3:DE:188:LEU:HD22	256.34	0.45
2:CS:63:THR:CG2	3:DC:188:LEU:HD21	253.65	0.45
2:CB:115:ASN:CA	3:DT:119:LYS:HZ3	258.54	0.45
3:DB:103:SER:HB2	3:DB:159:PRO:HA	1.95	0.45
3:DE:101:ARG:HG2	3:DE:101:ARG:O	2.17	0.45
3:DL:101:ARG:HG2	3:DL:101:ARG:O	2.17	0.45
3:DO:101:ARG:O	3:DO:101:ARG:HG2	2.17	0.45
2:CV:46:THR:CG2	3:ED:165:ASP:HA	228.57	0.45
3:D1:101:ARG:HG2	3:D1:101:ARG:O	2.17	0.45
1:AA:82:LEU:CD2	1:AA:84:LEU:HD11	2.46	0.45
1:AF:82:LEU:CD2	1:AF:84:LEU:HD11	2.46	0.45
1:AP:45:LEU:HB2	1:AP:202:HIS:HA	1.98	0.45
1:AW:82:LEU:CD2	1:AW:84:LEU:HD11	2.46	0.45
1:BF:101:PHE:CD2	1:BF:143:VAL:CG1	2.91	0.45
1:BH:143:VAL:H	3:EE:14:PHE:CB	2.28	0.45
1:BI:121:LEU:C	1:BI:121:LEU:HD13	2.36	0.45
3:DJ:19:PRO:HB3	4:FN:30:TYR:CD2	238.48	0.45
3:DM:8:VAL:CG1	3:DM:9:PRO:HD2	2.39	0.45
3:DT:13:SER:OG	3:DT:15:MET:CE	2.64	0.45
3:EC:19:PRO:HB3	4:FU:30:TYR:CD2	218.13	0.45
3:DD:19:PRO:HB3	4:FC:30:TYR:CD2	2.52	0.45
3:DE:19:PRO:HB3	4:FI:30:TYR:CD2	106.41	0.45
3:DL:19:PRO:HB3	4:FK:30:TYR:CD2	2.52	0.45
1:A7:121:LEU:HD13	1:A7:121:LEU:C	2.36	0.45
1:AD:112:PRO:HB2	3:DE:223:PRO:HB3	1.98	0.45
1:AD:112:PRO:HB2	3:DG:223:PRO:HB3	125.12	0.45
1:A4:137:GLY:HA2	1:A5:38:PHE:CD1	2.48	0.45
1:AZ:139:SER:HA	1:AZ:140:PRO:HD3	1.62	0.45
3:D3:13:SER:OG	3:D3:15:MET:CE	2.64	0.45
1:AZ:151:SER:C	1:AZ:153:ALA:H	2.19	0.45
1:AU:183:THR:HA	1:AU:186:TRP:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:183:THR:HA	1:A9:186:TRP:HB3	1.99	0.45
1:A6:82:LEU:CD2	1:A6:84:LEU:HD11	2.46	0.45
1:AE:184:TYR:CE2	2:CE:139:ALA:HB2	2.51	0.45
1:AO:184:TYR:CE2	2:CO:139:ALA:HB2	2.51	0.45
1:AE:184:TYR:CE2	2:CG:139:ALA:HB2	135.17	0.45
1:AF:184:TYR:CE2	2:CF:139:ALA:HB2	2.51	0.45
1:AG:49:THR:HG22	1:AG:50:GLY:H	1.82	0.45
1:BE:113:THR:O	1:BE:114:LYS:C	2.55	0.45
1:AT:103:TRP:HB2	1:AT:198:THR:HG23	1.96	0.45
1:BI:49:THR:HG22	1:BI:50:GLY:H	1.82	0.45
1:BH:113:THR:O	1:BH:114:LYS:C	2.55	0.45
1:BA:113:THR:O	1:BA:114:LYS:C	2.55	0.45
2:C2:160:HIS:HE2	3:D2:51:TYR:HE1	1.64	0.45
1:AS:113:THR:O	1:AS:114:LYS:C	2.55	0.45
2:CJ:152:TYR:HB2	2:CJ:197:LEU:HD22	1.97	0.45
1:AM:170:PHE:CD2	1:AM:222:ARG:CZ	2.87	0.45
3:D3:108:PHE:O	3:D3:153:ALA:HA	2.15	0.45
1:AJ:220:CYS:HA	1:AJ:221:PRO:HD2	1.82	0.45
2:CH:158:PHE:O	2:CH:159:PRO:C	2.55	0.45
1:BD:165:ARG:HG2	2:CS:180:PRO:O	143.48	0.45
1:AG:219:TYR:HD2	3:DI:39:ARG:HB2	74.53	0.45
1:BD:219:TYR:HD2	3:DS:39:ARG:HB2	137.80	0.45
2:CV:108:TRP:O	2:CV:218:ILE:HD12	2.17	0.45
1:BA:165:ARG:HG2	2:CP:180:PRO:O	101.20	0.45
1:BC:165:ARG:HG2	2:CR:180:PRO:O	141.73	0.45
1:A8:165:ARG:HG2	2:C9:180:PRO:O	2.16	0.45
2:CF:78:ALA:HB1	2:CF:195:VAL:HG12	1.99	0.45
2:C5:108:TRP:O	2:C5:218:ILE:HD12	2.17	0.45
2:CV:75:HIS:NE2	3:DV:59:LYS:HB3	2.31	0.45
2:CZ:78:ALA:HB1	2:CZ:195:VAL:HG12	1.99	0.45
1:AF:62:SER:HB2	1:AF:73:ASN:ND2	2.27	0.45
2:C3:75:HIS:NE2	3:D3:59:LYS:HB3	2.30	0.45
2:CH:84:PRO:HG3	2:CH:108:TRP:CH2	2.50	0.45
2:C9:75:HIS:NE2	3:D9:59:LYS:HB3	2.30	0.45
2:CO:78:ALA:HB1	2:CO:195:VAL:HG12	1.99	0.45
2:CO:75:HIS:HA	2:CO:198:ILE:O	2.17	0.45
1:AT:184:TYR:CE2	2:CU:139:ALA:HB2	2.51	0.45
1:AR:184:TYR:CE2	2:CR:139:ALA:HB2	2.51	0.45
2:C6:135:THR:HG23	2:C6:145:LEU:HD11	1.99	0.45
3:DM:56:ILE:CG1	3:DM:74:PHE:CE1	2.98	0.45
2:CD:75:HIS:HA	2:CD:198:ILE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:56:ILE:CG1	3:DD:74:PHE:CE1	2.98	0.45
2:CN:75:HIS:HA	2:CN:198:ILE:O	2.17	0.45
2:CL:75:HIS:HA	2:CL:198:ILE:O	2.17	0.45
3:DI:56:ILE:CG1	3:DI:74:PHE:CE1	2.98	0.45
1:AX:184:TYR:CE2	2:CY:139:ALA:HB2	2.51	0.45
1:AU:43:LEU:H	1:AU:43:LEU:HD23	1.81	0.45
1:BI:43:LEU:HD23	1:BI:43:LEU:H	1.81	0.45
3:D8:97:PHE:CD1	3:D8:216:LEU:HD23	2.51	0.45
3:DI:97:PHE:CD1	3:DI:216:LEU:HD23	2.51	0.45
3:DL:97:PHE:CD1	3:DL:216:LEU:HD23	2.51	0.45
3:DK:97:PHE:CD1	3:DK:216:LEU:HD23	2.51	0.45
1:AL:109:VAL:HG22	1:AL:191:HIS:HD2	1.82	0.45
1:AH:242:ASN:ND2	1:AL:110:GLY:H	267.68	0.45
1:AM:110:GLY:H	1:AN:242:ASN:ND2	2.12	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
2:CW:65:LYS:CB	3:DJ:135:ARG:HH21	2.29	0.45
2:CB:23:ILE:H	2:CB:23:ILE:HD12	1.80	0.45
2:CJ:23:ILE:HD12	2:CJ:23:ILE:H	1.80	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
2:CZ:36:TYR:HE2	2:CZ:130:PRO:HG2	1.81	0.45
3:DG:172:ALA:O	3:DG:178:ASN:OD1	2.34	0.45
3:DM:172:ALA:O	3:DM:178:ASN:OD1	2.35	0.45
3:EC:122:VAL:HA	3:EC:185:VAL:HA	1.97	0.45
3:DU:122:VAL:HA	3:DU:185:VAL:HA	1.97	0.45
3:DQ:172:ALA:O	3:DQ:178:ASN:OD1	2.35	0.45
3:EB:172:ALA:O	3:EB:178:ASN:OD1	2.34	0.45
3:DN:154:PHE:CG	3:DN:155:SER:N	2.84	0.45
3:DF:154:PHE:CG	3:DF:155:SER:N	2.84	0.45
2:C1:228:ASN:OD1	2:CN:92:GLY:HA3	2.16	0.45
2:CB:92:GLY:HA3	2:CE:228:ASN:OD1	130.17	0.45
2:CR:228:ASN:OD1	2:CW:92:GLY:HA3	228.10	0.45
1:AG:107:PHE:HB2	1:AG:194:SER:OG	2.17	0.45
2:C0:92:GLY:HA3	2:CP:228:ASN:OD1	2.16	0.45
3:DB:77:ASP:O	3:DB:79:SER:N	2.50	0.45
3:DI:77:ASP:O	3:DI:79:SER:N	2.50	0.45
3:DK:77:ASP:O	3:DK:79:SER:N	2.50	0.45
3:DS:77:ASP:O	3:DS:79:SER:N	2.50	0.45
3:D5:77:ASP:O	3:D5:79:SER:N	2.50	0.45
3:DZ:77:ASP:O	3:DZ:79:SER:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DR:77:ASP:O	3:DR:79:SER:N	2.50	0.45
1:AO:22:VAL:CG1	1:AO:23:ASP:N	2.79	0.45
1:A6:22:VAL:CG1	1:A6:23:ASP:N	2.79	0.45
3:DO:198:VAL:HG23	3:DO:199:ASN:H	1.82	0.45
1:BC:22:VAL:CG1	1:BC:23:ASP:N	2.79	0.45
3:DL:198:VAL:HG23	3:DL:199:ASN:H	1.82	0.45
3:DK:85:LEU:O	3:DK:91:ALA:CB	2.65	0.45
4:FO:16:GLY:O	4:FO:18:SER:N	2.50	0.45
1:AK:56:VAL:HG13	1:AK:193:GLY:O	2.17	0.45
1:A1:225:PRO:HA	1:A1:226:PRO:HD2	1.88	0.45
3:DL:85:LEU:O	3:DL:91:ALA:CB	2.65	0.45
4:FG:16:GLY:O	4:FG:18:SER:N	2.50	0.45
3:ED:85:LEU:O	3:ED:91:ALA:CB	2.65	0.45
1:AW:56:VAL:HG13	1:AW:193:GLY:O	2.17	0.45
3:DU:195:ASP:HB2	3:DU:198:VAL:HG22	1.98	0.45
4:FD:16:GLY:O	4:FD:18:SER:N	2.50	0.45
1:AZ:56:VAL:HG13	1:AZ:193:GLY:O	2.17	0.45
3:D9:120:PHE:HD2	3:D9:146:TRP:CH2	2.34	0.45
2:CW:63:THR:CG2	3:DJ:188:LEU:HD21	2.47	0.45
2:CI:212:THR:HG23	3:DJ:188:LEU:HD22	48.97	0.45
2:CK:212:THR:HG23	3:DA:188:LEU:HD22	267.69	0.45
2:CR:63:THR:CG2	3:EE:188:LEU:HD21	2.47	0.45
2:CL:212:THR:HG23	3:D8:188:LEU:HD22	119.63	0.45
3:D7:120:PHE:HD2	3:D7:146:TRP:CH2	2.34	0.45
2:C1:63:THR:CG2	3:DO:188:LEU:HD21	2.47	0.45
2:CG:212:THR:HG23	3:EB:188:LEU:HD22	1.96	0.45
2:C9:216:ALA:HA	2:C9:217:PRO:HD3	1.78	0.45
2:CN:63:THR:CG2	3:DE:188:LEU:HD21	253.98	0.45
3:DU:120:PHE:HD2	3:DU:146:TRP:CH2	2.34	0.45
3:DD:101:ARG:O	3:DD:101:ARG:HG2	2.17	0.45
3:DG:101:ARG:O	3:DG:101:ARG:HG2	2.17	0.45
3:DH:101:ARG:HG2	3:DH:101:ARG:O	2.17	0.45
3:DI:103:SER:HB2	3:DI:159:PRO:HA	1.95	0.45
3:DK:101:ARG:HG2	3:DK:101:ARG:O	2.17	0.45
3:EE:101:ARG:HG2	3:EE:101:ARG:O	2.17	0.45
1:AB:137:GLY:HA2	1:AC:38:PHE:CD1	2.49	0.45
1:AO:143:VAL:H	3:DK:14:PHE:CB	2.28	0.45
1:AO:143:VAL:H	3:DT:14:PHE:CB	117.64	0.45
1:AQ:139:SER:HA	1:AQ:140:PRO:HD3	1.62	0.45
1:AT:82:LEU:CD2	1:AT:84:LEU:HD11	2.46	0.45
3:DP:13:SER:OG	3:DP:15:MET:CE	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DS:19:PRO:HB3	4:FR:30:TYR:CD2	2.52	0.45
3:DY:13:SER:OG	3:DY:15:MET:CE	2.64	0.45
3:EB:19:PRO:HG3	4:FU:17:ASN:ND2	211.88	0.45
3:EC:13:SER:OG	3:EC:15:MET:CE	2.64	0.45
3:DB:19:PRO:HB3	4:FA:30:TYR:CD2	2.52	0.45
3:DW:13:SER:OG	3:DW:15:MET:CE	2.64	0.45
1:A4:82:LEU:CD2	1:A4:84:LEU:HD11	2.46	0.45
1:AA:112:PRO:HB2	3:DD:223:PRO:HB3	72.90	0.45
1:AB:112:PRO:HB2	3:D9:223:PRO:HB3	217.53	0.45
1:BB:112:PRO:HB2	3:DR:223:PRO:HB3	150.91	0.45
1:A0:45:LEU:HB2	1:A0:202:HIS:HA	1.98	0.45
1:A2:82:LEU:CD2	1:A2:84:LEU:HD11	2.46	0.45
3:D2:19:PRO:HB3	4:F1:30:TYR:CD2	2.52	0.45
1:BH:183:THR:HA	1:BH:186:TRP:HB3	1.98	0.45
1:BD:183:THR:HA	1:BD:186:TRP:HB3	1.98	0.45
1:A5:139:SER:HA	1:A5:140:PRO:HD3	1.62	0.45
1:AW:183:THR:HA	1:AW:186:TRP:HB3	1.98	0.45
1:AT:183:THR:HA	1:AT:186:TRP:HB3	1.98	0.45
2:CI:135:THR:HG23	2:CI:145:LEU:HD11	1.98	0.45
2:C7:135:THR:HG23	2:C7:145:LEU:HD11	1.98	0.45
1:AL:184:TYR:CE2	2:CL:139:ALA:HB2	2.51	0.45
1:AP:113:THR:O	1:AP:114:LYS:C	2.55	0.45
2:CM:160:HIS:HE2	3:DM:51:TYR:HE1	1.64	0.45
1:A5:49:THR:HG22	1:A5:50:GLY:H	1.82	0.45
2:CP:134:HIS:HB3	2:CP:135:THR:H	1.46	0.45
2:CV:160:HIS:HE2	3:DV:51:TYR:HE1	1.64	0.45
1:A4:113:THR:O	1:A4:114:LYS:C	2.55	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:CI:153:GLN:NE2	3:DI:55:SER:CB	2.80	0.45
2:CX:152:TYR:HB2	2:CX:197:LEU:HD22	1.97	0.45
2:CH:13:ARG:HA	2:CH:13:ARG:HD3	1.72	0.45
2:CE:153:GLN:NE2	3:DE:55:SER:CB	2.80	0.45
3:ED:108:PHE:O	3:ED:153:ALA:HA	2.16	0.45
2:CC:153:GLN:NE2	3:DC:55:SER:CB	2.80	0.45
2:CL:13:ARG:HA	2:CL:13:ARG:HD3	1.72	0.45
1:BC:30:VAL:HG13	1:BC:218:MET:HE2	1.99	0.45
1:AV:170:PHE:CD2	1:AV:222:ARG:CZ	2.87	0.45
2:CD:158:PHE:O	2:CD:159:PRO:C	2.55	0.45
2:CN:108:TRP:O	2:CN:218:ILE:HD12	2.17	0.45
1:AA:165:ARG:HG2	2:CA:180:PRO:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:78:ALA:HB1	2:CG:195:VAL:HG12	1.99	0.45
1:AU:219:TYR:HD2	3:DV:39:ARG:HB2	1.79	0.45
1:BH:165:ARG:HG2	2:CW:180:PRO:O	204.90	0.45
1:BH:219:TYR:HD2	3:ED:39:ARG:HB2	1.79	0.45
2:CR:75:HIS:HA	2:CR:198:ILE:O	2.17	0.45
2:C2:163:LEU:HD21	2:C2:169:SER:C	2.36	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
1:BE:165:ARG:HG2	2:CT:180:PRO:O	185.09	0.45
2:CH:75:HIS:HA	2:CH:198:ILE:O	2.17	0.45
2:C3:163:LEU:HD21	2:C3:169:SER:C	2.36	0.45
3:D7:56:ILE:CG1	3:D7:74:PHE:CE1	2.98	0.45
2:C3:108:TRP:O	2:C3:218:ILE:HD12	2.16	0.45
2:CC:78:ALA:HB1	2:CC:195:VAL:HG12	1.99	0.45
2:CJ:75:HIS:HA	2:CJ:198:ILE:O	2.17	0.45
2:CY:78:ALA:HB1	2:CY:195:VAL:HG12	1.99	0.45
2:CY:75:HIS:HA	2:CY:198:ILE:O	2.17	0.45
2:C0:135:THR:HG23	2:C0:145:LEU:HD11	1.99	0.45
1:A5:43:LEU:H	1:A5:43:LEU:HD23	1.81	0.45
1:AH:109:VAL:HG22	1:AH:191:HIS:HD2	1.82	0.45
2:CL:65:LYS:CB	3:DK:135:ARG:HH21	121.76	0.45
1:BH:110:GLY:H	1:BI:242:ASN:ND2	2.12	0.45
1:BB:109:VAL:HG22	1:BB:191:HIS:HD2	1.82	0.45
1:A6:110:GLY:H	1:A7:242:ASN:ND2	2.12	0.45
2:C0:65:LYS:CB	3:DQ:135:ARG:HH21	2.29	0.45
3:EE:110:PHE:HB3	3:EE:148:VAL:HG11	1.96	0.45
3:D4:110:PHE:HB3	3:D4:148:VAL:HG11	1.96	0.45
4:FA:22:VAL:HG11	4:FE:25:PHE:HZ	1.81	0.45
2:C6:129:VAL:HA	2:C6:130:PRO:HD3	1.78	0.45
3:D4:122:VAL:HA	3:D4:185:VAL:HA	1.97	0.45
3:DZ:172:ALA:O	3:DZ:178:ASN:OD1	2.34	0.45
3:D8:172:ALA:O	3:D8:178:ASN:OD1	2.34	0.45
3:EC:154:PHE:CG	3:EC:155:SER:N	2.84	0.45
2:CJ:92:GLY:HA3	2:CL:228:ASN:OD1	234.79	0.45
2:CS:92:GLY:HA3	2:CX:228:ASN:OD1	233.58	0.45
2:CO:92:GLY:HA3	2:CT:228:ASN:OD1	2.16	0.45
2:CQ:92:GLY:HA3	2:CX:228:ASN:OD1	130.29	0.45
1:AW:107:PHE:HB2	1:AW:194:SER:OG	2.16	0.45
1:BE:107:PHE:HB2	1:BE:194:SER:OG	2.17	0.45
1:AZ:107:PHE:HB2	1:AZ:194:SER:OG	2.16	0.45
2:CF:228:ASN:OD1	2:CU:92:GLY:HA3	228.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C5:228:ASN:OD1	2:CF:92:GLY:HA3	2.16	0.45
3:DW:154:PHE:CG	3:DW:155:SER:N	2.84	0.45
1:BH:107:PHE:HB2	1:BH:194:SER:OG	2.16	0.45
1:AS:107:PHE:HB2	1:AS:194:SER:OG	2.17	0.45
1:A3:107:PHE:HB2	1:A3:194:SER:OG	2.17	0.45
3:DJ:77:ASP:O	3:DJ:79:SER:N	2.50	0.45
3:DC:77:ASP:O	3:DC:79:SER:N	2.50	0.45
3:DM:77:ASP:O	3:DM:79:SER:N	2.50	0.45
3:DT:77:ASP:O	3:DT:79:SER:N	2.50	0.45
1:BB:22:VAL:CG1	1:BB:23:ASP:N	2.79	0.45
1:AU:22:VAL:CG1	1:AU:23:ASP:N	2.79	0.45
3:EE:198:VAL:HG23	3:EE:199:ASN:H	1.82	0.45
1:BF:22:VAL:CG1	1:BF:23:ASP:N	2.79	0.45
3:DJ:198:VAL:HG23	3:DJ:199:ASN:H	1.82	0.45
3:EA:198:VAL:HG23	3:EA:199:ASN:H	1.82	0.45
3:D3:198:VAL:HG23	3:D3:199:ASN:H	1.82	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:AB:56:VAL:HG13	1:AB:193:GLY:O	2.17	0.45
1:AJ:56:VAL:HG13	1:AJ:193:GLY:O	2.17	0.45
2:C2:42:ARG:HA	2:C2:43:PRO:HD2	1.64	0.45
1:AM:56:VAL:HG13	1:AM:193:GLY:O	2.17	0.45
1:BA:45:LEU:HB2	1:BA:202:HIS:HA	1.98	0.45
3:D4:85:LEU:O	3:D4:91:ALA:CB	2.64	0.45
4:FR:16:GLY:O	4:FR:18:SER:N	2.50	0.45
3:DX:85:LEU:O	3:DX:91:ALA:CB	2.65	0.45
4:FJ:16:GLY:O	4:FJ:18:SER:N	2.50	0.45
3:DZ:85:LEU:O	3:DZ:91:ALA:CB	2.64	0.45
4:F1:16:GLY:O	4:F1:18:SER:N	2.50	0.45
1:BH:171:TYR:N	1:BH:185:ASN:OD1	2.45	0.45
1:AI:56:VAL:HG13	1:AI:193:GLY:O	2.17	0.45
2:CX:42:ARG:HA	2:CX:43:PRO:HD2	1.64	0.45
2:CC:63:THR:CG2	3:ED:188:LEU:HD21	236.01	0.45
2:CL:63:THR:CG2	3:DK:188:LEU:HD21	117.66	0.45
2:CQ:216:ALA:HA	2:CQ:217:PRO:HD3	1.78	0.45
3:D1:120:PHE:HD2	3:D1:146:TRP:CH2	2.34	0.45
1:AH:13:THR:C	1:AH:14:GLU:HG3	2.38	0.45
3:DC:101:ARG:HG2	3:DC:101:ARG:O	2.17	0.45
3:DV:101:ARG:HG2	3:DV:101:ARG:O	2.17	0.45
3:DR:103:SER:HB2	3:DR:159:PRO:HA	1.95	0.45
3:D6:103:SER:HB3	3:D6:159:PRO:CA	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:121:LEU:HD13	1:A9:121:LEU:C	2.36	0.45
1:A9:143:VAL:H	3:DB:14:PHE:CB	242.96	0.45
1:AE:143:VAL:H	3:DH:14:PHE:CB	143.89	0.45
1:AG:101:PHE:CD2	1:AG:143:VAL:CG1	2.91	0.45
1:AL:121:LEU:HD21	1:AM:206:GLY:CA	2.47	0.45
1:AX:146:ILE:HG22	1:AX:146:ILE:O	2.17	0.45
1:BA:121:LEU:HD13	1:BA:121:LEU:C	2.36	0.45
1:BB:151:SER:C	1:BB:153:ALA:H	2.19	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:BH:101:PHE:CD2	1:BH:143:VAL:HG11	2.44	0.45
3:DK:19:PRO:HB3	4:FO:30:TYR:CD2	2.52	0.45
3:DP:19:PRO:HB3	4:FT:30:TYR:CD2	2.52	0.45
3:DC:7:SER:OG	3:DC:11:SER:HB3	2.17	0.45
1:A7:101:PHE:CD2	1:A7:143:VAL:HG11	2.44	0.45
3:D8:13:SER:OG	3:D8:15:MET:CE	2.64	0.45
1:AV:146:ILE:HG21	1:AV:146:ILE:HD13	1.74	0.45
3:DX:19:PRO:HB3	4:FW:30:TYR:CD2	2.52	0.45
3:D5:13:SER:OG	3:D5:15:MET:CE	2.64	0.45
1:A8:112:PRO:HB2	3:DA:223:PRO:HB3	242.26	0.45
3:D0:19:PRO:HB3	4:FZ:30:TYR:CD2	2.52	0.45
1:BA:112:PRO:HB2	3:DQ:223:PRO:HB3	123.76	0.45
1:AZ:183:THR:HA	1:AZ:186:TRP:HB3	1.98	0.45
1:AU:187:LEU:HD22	1:AU:188:PRO:N	2.30	0.45
1:AE:183:THR:HA	1:AE:186:TRP:HB3	1.98	0.45
1:AF:183:THR:HA	1:AF:186:TRP:HB3	1.98	0.45
1:AG:183:THR:HA	1:AG:186:TRP:HB3	1.98	0.45
1:BB:183:THR:HA	1:BB:186:TRP:HB3	1.98	0.45
1:AX:187:LEU:HD22	1:AX:188:PRO:N	2.30	0.45
2:CA:134:HIS:HB3	2:CA:135:THR:H	1.46	0.45
1:A7:184:TYR:CE2	2:C8:139:ALA:HB2	2.51	0.45
1:AR:113:THR:O	1:AR:114:LYS:C	2.54	0.45
1:AZ:113:THR:O	1:AZ:114:LYS:C	2.55	0.45
2:CK:58:LEU:HB3	2:CK:59:SER:H	1.65	0.45
1:AX:52:PRO:HD3	1:AX:115:THR:O	2.17	0.45
1:A2:113:THR:O	1:A2:114:LYS:C	2.54	0.45
2:CW:160:HIS:HE2	3:DW:51:TYR:HE1	1.64	0.45
2:CW:160:HIS:HE2	3:ED:51:TYR:HE1	231.39	0.45
2:C9:160:HIS:HE2	3:D9:51:TYR:HE1	1.64	0.45
1:BH:49:THR:HG22	1:BH:50:GLY:H	1.82	0.45
1:A5:113:THR:O	1:A5:114:LYS:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:103:TRP:HB2	1:BB:198:THR:HG23	1.96	0.45
1:AV:49:THR:HG22	1:AV:50:GLY:H	1.82	0.45
2:C1:160:HIS:HE2	3:D1:51:TYR:HE1	1.64	0.45
2:CI:226:LEU:CD2	3:DE:126:PRO:HG2	134.57	0.45
2:CH:153:GLN:NE2	3:DH:55:SER:CB	2.80	0.45
2:CN:153:GLN:NE2	3:DN:55:SER:CB	2.80	0.45
3:DV:108:PHE:O	3:DV:153:ALA:HA	2.16	0.45
2:CE:152:TYR:OH	3:DE:60:PRO:HD3	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:C8:108:TRP:O	2:C8:218:ILE:HD12	2.16	0.45
2:CX:108:TRP:O	2:CX:218:ILE:HD12	2.16	0.45
2:CO:158:PHE:O	2:CO:159:PRO:C	2.55	0.45
2:CH:157:VAL:HG23	3:DH:50:THR:HG21	1.99	0.45
2:CL:158:PHE:O	2:CL:159:PRO:C	2.55	0.45
1:BH:184:TYR:CE2	2:CW:139:ALA:HB2	238.96	0.45
1:AH:165:ARG:HG2	2:CJ:180:PRO:O	79.98	0.45
2:C9:84:PRO:HG3	2:C9:108:TRP:CH2	2.50	0.45
1:AM:165:ARG:HG2	2:CO:180:PRO:O	79.98	0.45
2:CV:158:PHE:O	2:CV:159:PRO:C	2.55	0.45
2:CP:78:ALA:HB1	2:CP:195:VAL:HG12	1.99	0.45
2:CV:75:HIS:HA	2:CV:198:ILE:O	2.17	0.45
2:C4:75:HIS:HA	2:C4:198:ILE:O	2.17	0.45
1:AV:165:ARG:HG2	2:CW:180:PRO:O	2.16	0.45
2:C8:75:HIS:HA	2:C8:198:ILE:O	2.17	0.45
2:C1:78:ALA:HB1	2:C1:195:VAL:HG12	1.99	0.45
2:CH:108:TRP:O	2:CH:218:ILE:HD12	2.17	0.45
2:C6:158:PHE:O	2:C6:159:PRO:C	2.55	0.45
2:C0:78:ALA:HB1	2:C0:195:VAL:HG12	1.99	0.45
2:CE:78:ALA:HB1	2:CE:195:VAL:HG12	1.99	0.45
3:DO:56:ILE:CG1	3:DO:74:PHE:CE1	2.98	0.45
2:CY:75:HIS:NE2	3:DY:59:LYS:HB3	2.30	0.45
2:CX:75:HIS:HA	2:CX:198:ILE:O	2.17	0.45
1:AY:184:TYR:CE2	2:CZ:139:ALA:HB2	2.51	0.45
2:CB:54:LEU:HD21	2:CB:97:VAL:HG11	1.99	0.45
1:AS:43:LEU:HD23	1:AS:43:LEU:H	1.81	0.45
3:DP:97:PHE:CD1	3:DP:216:LEU:HD23	2.51	0.45
1:BC:110:GLY:H	1:BD:242:ASN:ND2	2.12	0.45
3:EC:97:PHE:CD1	3:EC:216:LEU:HD23	2.51	0.45
1:AA:110:GLY:H	1:AB:242:ASN:ND2	2.12	0.45
1:AU:110:GLY:H	1:AV:242:ASN:ND2	2.12	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:109:VAL:HG22	1:AM:191:HIS:HD2	1.82	0.45
1:AW:110:GLY:H	1:AX:242:ASN:ND2	2.12	0.45
2:C9:65:LYS:CB	3:DL:135:ARG:HH21	88.95	0.45
2:CZ:65:LYS:CB	3:DQ:135:ARG:HH21	88.95	0.45
3:D0:110:PHE:HB3	3:D0:148:VAL:HG11	1.96	0.45
2:CE:23:ILE:H	2:CE:23:ILE:HD12	1.80	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
3:DZ:154:PHE:CG	3:DZ:155:SER:N	2.84	0.45
3:EB:154:PHE:CG	3:EB:155:SER:N	2.84	0.45
3:DP:154:PHE:CG	3:DP:155:SER:N	2.85	0.45
1:AV:107:PHE:HB2	1:AV:194:SER:OG	2.16	0.45
2:CC:228:ASN:OD1	2:CV:92:GLY:HA3	134.64	0.45
2:CI:228:ASN:OD1	2:CW:92:GLY:HA3	2.16	0.45
2:C9:92:GLY:HA3	2:CK:228:ASN:OD1	85.34	0.45
1:AJ:107:PHE:HB2	1:AJ:194:SER:OG	2.17	0.45
1:AC:107:PHE:HB2	1:AC:194:SER:OG	2.17	0.45
1:A5:107:PHE:HB2	1:A5:194:SER:OG	2.16	0.45
1:AX:107:PHE:HB2	1:AX:194:SER:OG	2.16	0.45
1:BI:22:VAL:CG1	1:BI:23:ASP:N	2.79	0.45
1:AV:22:VAL:CG1	1:AV:23:ASP:N	2.79	0.45
3:DQ:198:VAL:HG23	3:DQ:199:ASN:H	1.82	0.45
3:DP:198:VAL:HG23	3:DP:199:ASN:H	1.82	0.45
3:DZ:198:VAL:HG23	3:DZ:199:ASN:H	1.82	0.45
3:DI:198:VAL:HG23	3:DI:199:ASN:H	1.82	0.45
3:D4:198:VAL:HG23	3:D4:199:ASN:H	1.82	0.45
3:DO:36:VAL:HA	3:DO:37:PRO:HD3	1.53	0.45
1:A8:56:VAL:HG13	1:A8:193:GLY:O	2.17	0.45
1:AS:56:VAL:HG13	1:AS:193:GLY:O	2.17	0.45
4:FX:16:GLY:O	4:FX:18:SER:N	2.50	0.45
1:AB:45:LEU:HB2	1:AB:202:HIS:HA	1.98	0.45
3:EA:85:LEU:O	3:EA:91:ALA:CB	2.64	0.45
4:F0:16:GLY:O	4:F0:18:SER:N	2.50	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
1:AD:56:VAL:HG13	1:AD:193:GLY:O	2.17	0.45
2:CB:42:ARG:HA	2:CB:43:PRO:HD2	1.64	0.45
1:AE:56:VAL:HG13	1:AE:193:GLY:O	2.17	0.45
3:D8:198:VAL:HG23	3:D8:199:ASN:H	1.82	0.45
3:DG:85:LEU:O	3:DG:91:ALA:CB	2.64	0.45
1:AG:56:VAL:HG13	1:AG:193:GLY:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:56:VAL:HG13	1:AH:193:GLY:O	2.17	0.45
2:CC:63:THR:CG2	3:DN:188:LEU:HD21	158.01	0.45
2:CK:63:THR:CG2	3:DB:188:LEU:HD21	253.11	0.45
2:CL:63:THR:CG2	3:D8:188:LEU:HD21	119.27	0.45
2:CG:63:THR:CG2	3:D3:188:LEU:HD21	253.11	0.45
2:CA:63:THR:CG2	3:DL:188:LEU:HD21	253.11	0.45
2:CA:212:THR:HG23	3:DL:188:LEU:HD22	255.93	0.45
2:CS:63:THR:CG2	3:EA:188:LEU:HD21	157.31	0.45
3:D9:101:ARG:O	3:D9:101:ARG:HG2	2.17	0.45
3:DF:101:ARG:HG2	3:DF:101:ARG:O	2.17	0.45
3:DI:101:ARG:O	3:DI:101:ARG:HG2	2.17	0.45
3:DJ:101:ARG:O	3:DJ:101:ARG:HG2	2.17	0.45
3:DM:101:ARG:HG2	3:DM:101:ARG:O	2.17	0.45
3:DW:101:ARG:O	3:DW:101:ARG:HG2	2.17	0.45
1:A6:13:THR:C	1:A6:14:GLU:HG3	2.38	0.45
3:DP:7:SER:OG	3:DP:11:SER:HB3	2.17	0.45
1:A8:121:LEU:HD21	1:A9:206:GLY:CA	2.47	0.45
1:AA:143:VAL:H	3:DB:14:PHE:CB	2.28	0.45
1:AF:146:ILE:HG22	1:AF:146:ILE:O	2.17	0.45
1:AJ:143:VAL:H	3:DM:14:PHE:CB	269.52	0.45
1:AL:137:GLY:HA2	1:AM:38:PHE:CD1	2.48	0.45
1:AM:146:ILE:HG22	1:AM:146:ILE:O	2.17	0.45
1:AN:101:PHE:CD2	1:AN:143:VAL:CG1	2.90	0.45
1:BD:101:PHE:CD2	1:BD:143:VAL:CG1	2.91	0.45
1:BE:121:LEU:HD13	1:BE:121:LEU:C	2.36	0.45
1:BE:45:LEU:HB2	1:BE:202:HIS:HA	1.98	0.45
3:DB:13:SER:OG	3:DB:15:MET:CE	2.64	0.45
3:DG:19:PRO:HB3	4:FF:30:TYR:CD2	2.52	0.45
3:DX:13:SER:OG	3:DX:15:MET:CE	2.64	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:AU:137:GLY:HA2	1:AV:38:PHE:CD1	2.49	0.45
1:AV:151:SER:C	1:AV:153:ALA:H	2.19	0.45
1:AB:112:PRO:HB2	3:DC:223:PRO:HB3	1.98	0.45
1:BD:112:PRO:HB2	3:DO:223:PRO:HB3	217.53	0.45
1:A1:45:LEU:HB2	1:A1:202:HIS:HA	1.98	0.45
3:D0:13:SER:OG	3:D0:15:MET:CE	2.64	0.45
1:BH:112:PRO:HB2	3:EE:223:PRO:HB3	1.98	0.45
1:A5:183:THR:HA	1:A5:186:TRP:HB3	1.98	0.45
1:AY:183:THR:HA	1:AY:186:TRP:HB3	1.98	0.45
1:AI:174:TRP:HB2	2:CK:188:LEU:CD2	276.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:184:TYR:CE2	2:CA:139:ALA:HB2	2.51	0.45
2:CC:135:THR:HG23	2:CC:145:LEU:HD11	1.99	0.45
2:CK:134:HIS:HB3	2:CK:135:THR:H	1.46	0.45
2:CN:57:THR:HG22	2:CN:58:LEU:H	1.82	0.45
1:A3:113:THR:O	1:A3:114:LYS:C	2.55	0.45
1:A6:52:PRO:HD3	1:A6:115:THR:O	2.17	0.45
2:CO:58:LEU:HB3	2:CO:59:SER:H	1.65	0.45
1:A0:52:PRO:HD3	1:A0:115:THR:O	2.17	0.45
1:AM:113:THR:O	1:AM:114:LYS:C	2.55	0.45
2:C4:160:HIS:HE2	3:D4:51:TYR:HE1	1.64	0.45
2:CG:156:SER:HA	2:CG:160:HIS:CD2	2.52	0.45
2:CQ:58:LEU:HB3	2:CQ:59:SER:H	1.65	0.45
2:CT:156:SER:HA	2:CT:160:HIS:CD2	2.52	0.45
2:CT:160:HIS:HE2	3:DT:51:TYR:HE1	1.64	0.45
2:CL:125:CYS:SG	2:CL:160:HIS:HD2	2.40	0.45
2:CC:160:HIS:HE2	3:DC:51:TYR:HE1	1.64	0.45
2:CU:160:HIS:HE2	3:EB:51:TYR:HE1	234.11	0.45
2:CS:156:SER:HA	2:CS:160:HIS:CD2	2.52	0.45
2:CS:160:HIS:HE2	3:DS:51:TYR:HE1	1.64	0.45
2:CV:153:GLN:NE2	3:EC:55:SER:CB	263.30	0.45
2:CF:152:TYR:OH	3:DF:60:PRO:HD3	2.17	0.45
2:CL:153:GLN:NE2	3:DL:55:SER:CB	2.80	0.45
1:AP:170:PHE:CD2	1:AP:222:ARG:NH1	2.85	0.45
1:AU:170:PHE:CD2	1:AU:222:ARG:NH1	2.85	0.45
1:BI:170:PHE:CD2	1:BI:222:ARG:NH1	2.85	0.45
2:CT:83:LEU:HA	2:CT:84:PRO:HA	1.60	0.45
2:CC:157:VAL:HG23	3:DC:50:THR:HG21	1.99	0.45
2:CO:157:VAL:HG23	3:DO:50:THR:HG21	1.99	0.45
2:CS:158:PHE:O	2:CS:159:PRO:C	2.55	0.45
2:CB:158:PHE:O	2:CB:159:PRO:C	2.55	0.45
2:CT:158:PHE:O	2:CT:159:PRO:C	2.55	0.45
2:CR:158:PHE:O	2:CR:159:PRO:C	2.55	0.45
2:CT:135:THR:HG23	2:CT:145:LEU:HD11	1.99	0.45
2:CU:158:PHE:O	2:CU:159:PRO:C	2.55	0.45
1:AH:165:ARG:HG2	2:CH:180:PRO:O	2.16	0.45
2:CD:180:PRO:HD2	2:CD:189:HIS:HE1	1.76	0.45
1:AL:219:TYR:HD2	3:DN:39:ARG:HB2	74.53	0.45
1:AC:165:ARG:HG2	2:CC:180:PRO:O	2.16	0.45
2:CV:157:VAL:HG23	3:EC:50:THR:HG21	238.91	0.45
2:CK:75:HIS:HA	2:CK:198:ILE:O	2.17	0.45
2:C5:84:PRO:HG3	2:C5:108:TRP:CH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:163:LEU:HD21	2:C8:169:SER:C	2.36	0.45
2:C9:163:LEU:HD21	2:C9:169:SER:C	2.36	0.45
2:CJ:69:TRP:CZ3	2:CJ:124:LEU:HD11	2.52	0.45
2:CT:75:HIS:HA	2:CT:198:ILE:O	2.17	0.45
2:CS:78:ALA:HB1	2:CS:195:VAL:HG12	1.99	0.45
1:AS:86:ILE:HD12	1:AS:86:ILE:H	1.72	0.45
1:BF:165:ARG:HG2	2:CU:180:PRO:O	231.63	0.45
1:BI:139:SER:HA	1:BI:140:PRO:HD3	1.62	0.45
2:CS:54:LEU:HD21	2:CS:97:VAL:HG11	1.99	0.45
2:CC:54:LEU:HD21	2:CC:97:VAL:HG11	1.99	0.45
3:D9:97:PHE:CD1	3:D9:216:LEU:HD23	2.51	0.45
1:BD:43:LEU:N	1:BD:43:LEU:CD2	2.74	0.45
3:D7:97:PHE:HB3	3:D7:218:HIS:O	2.17	0.45
1:A3:43:LEU:HD23	1:A3:43:LEU:H	1.81	0.45
3:DX:97:PHE:CD1	3:DX:216:LEU:HD23	2.51	0.45
3:DA:97:PHE:CD1	3:DA:216:LEU:HD23	2.51	0.45
3:DB:97:PHE:HB3	3:DB:218:HIS:O	2.17	0.45
1:A8:242:ASN:ND2	1:AB:110:GLY:H	216.56	0.45
1:BD:109:VAL:HG22	1:BD:191:HIS:HD2	1.82	0.45
1:A8:109:VAL:HG22	1:A8:191:HIS:HD2	1.82	0.45
3:EC:110:PHE:HB3	3:EC:148:VAL:HG11	1.97	0.45
2:CS:23:ILE:HD12	2:CS:23:ILE:H	1.80	0.45
4:FO:25:PHE:HZ	4:FP:22:VAL:HG11	113.99	0.45
1:BG:224:ILE:HA	1:BG:225:PRO:HD2	1.86	0.45
2:CT:39:PRO:HB3	2:CT:176:PRO:HA	1.99	0.45
3:D2:172:ALA:O	3:D2:178:ASN:OD1	2.35	0.45
3:DY:154:PHE:CG	3:DY:155:SER:N	2.85	0.45
3:D1:154:PHE:CG	3:D1:155:SER:N	2.84	0.45
3:DA:154:PHE:CG	3:DA:155:SER:N	2.84	0.45
1:BI:107:PHE:HB2	1:BI:194:SER:OG	2.17	0.45
1:A0:107:PHE:HB2	1:A0:194:SER:OG	2.17	0.45
2:C2:92:GLY:HA3	2:CG:228:ASN:OD1	258.20	0.45
2:CG:228:ASN:OD1	2:CT:92:GLY:HA3	233.58	0.45
2:CJ:228:ASN:OD1	2:CL:92:GLY:HA3	234.79	0.45
3:DN:77:ASP:O	3:DN:79:SER:N	2.50	0.45
3:DQ:77:ASP:O	3:DQ:79:SER:N	2.50	0.45
3:DA:77:ASP:O	3:DA:79:SER:N	2.50	0.45
3:DY:77:ASP:O	3:DY:79:SER:N	2.50	0.45
3:EC:77:ASP:O	3:EC:79:SER:N	2.50	0.45
1:BI:26:VAL:HG12	1:BI:27:HIS:N	2.32	0.45
1:AM:22:VAL:CG1	1:AM:23:ASP:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DN:198:VAL:HG23	3:DN:199:ASN:H	1.82	0.45
3:DB:198:VAL:HG23	3:DB:199:ASN:H	1.82	0.45
1:A1:22:VAL:CG1	1:A1:23:ASP:N	2.79	0.45
3:DA:198:VAL:HG23	3:DA:199:ASN:H	1.82	0.45
3:D9:134:THR:OG1	3:D9:137:GLU:HG3	2.17	0.45
3:D1:85:LEU:O	3:D1:91:ALA:CB	2.64	0.45
1:A1:56:VAL:HG13	1:A1:193:GLY:O	2.17	0.45
3:DV:134:THR:OG1	3:DV:137:GLU:HG3	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
4:F8:16:GLY:O	4:F8:18:SER:N	2.50	0.45
1:AR:56:VAL:HG13	1:AR:193:GLY:O	2.17	0.45
1:BE:56:VAL:HG13	1:BE:193:GLY:O	2.17	0.45
3:DA:134:THR:OG1	3:DA:137:GLU:HG3	2.17	0.45
2:C5:212:THR:HG23	3:DG:188:LEU:HD22	1.96	0.45
2:CZ:212:THR:HG23	3:DQ:188:LEU:HD22	86.35	0.45
2:CY:63:THR:CG2	3:DZ:188:LEU:HD21	2.47	0.45
2:CP:63:THR:CG2	3:D1:188:LEU:HD21	2.47	0.45
1:AA:13:THR:C	1:AA:14:GLU:HG3	2.38	0.45
1:AD:13:THR:C	1:AD:14:GLU:HG3	2.38	0.45
1:AF:13:THR:C	1:AF:14:GLU:HG3	2.38	0.45
3:DA:101:ARG:HG2	3:DA:101:ARG:O	2.17	0.45
3:EB:101:ARG:O	3:EB:101:ARG:HG2	2.17	0.45
1:AE:101:PHE:CD2	1:AE:143:VAL:CG1	2.91	0.45
1:AN:146:ILE:O	1:AN:146:ILE:HG22	2.17	0.45
1:AP:87:GLN:O	1:AP:88:PHE:CB	2.62	0.45
3:DD:7:SER:OG	3:DD:11:SER:HB3	2.17	0.45
3:DU:19:PRO:HB3	4:FY:30:TYR:CD2	2.52	0.45
1:A6:143:VAL:H	3:D8:14:PHE:CB	2.28	0.45
3:D2:7:SER:OG	3:D2:11:SER:HB3	2.17	0.45
3:D8:7:SER:OG	3:D8:11:SER:HB3	2.17	0.45
3:D6:19:PRO:HB3	4:F5:30:TYR:CD2	2.52	0.45
1:AL:112:PRO:HB2	3:DJ:223:PRO:HB3	273.50	0.45
1:AJ:112:PRO:HB2	3:DM:223:PRO:HB3	270.34	0.45
1:AO:112:PRO:HB2	3:DT:223:PRO:HB3	92.28	0.45
3:D1:19:PRO:HB3	4:F0:30:TYR:CD2	2.52	0.45
3:DX:7:SER:OG	3:DX:11:SER:HB3	2.17	0.45
1:BB:187:LEU:HD22	1:BB:188:PRO:N	2.30	0.45
1:AV:183:THR:HA	1:AV:186:TRP:HB3	1.98	0.45
1:BG:184:TYR:CE2	2:CV:139:ALA:HB2	266.62	0.45
2:CH:135:THR:HG23	2:CH:145:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:103:TRP:HB2	1:BD:198:THR:HG23	1.96	0.45
2:C9:57:THR:HG22	2:C9:58:LEU:H	1.82	0.45
2:CF:57:THR:HG22	2:CF:58:LEU:H	1.82	0.45
1:AE:49:THR:HG22	1:AE:50:GLY:H	1.82	0.45
1:AJ:52:PRO:HD3	1:AJ:115:THR:O	2.17	0.45
2:CO:57:THR:HG22	2:CO:58:LEU:H	1.82	0.45
1:BI:52:PRO:HD3	1:BI:115:THR:O	2.17	0.45
2:CE:156:SER:HA	2:CE:160:HIS:CD2	2.52	0.45
2:CK:156:SER:HA	2:CK:160:HIS:CD2	2.52	0.45
2:CQ:156:SER:HA	2:CQ:160:HIS:CD2	2.52	0.45
2:CQ:160:HIS:HE2	3:DQ:51:TYR:HE1	1.64	0.45
1:A9:113:THR:O	1:A9:114:LYS:C	2.55	0.45
1:A9:49:THR:HG22	1:A9:50:GLY:H	1.82	0.45
2:CH:160:HIS:HE2	3:DH:51:TYR:HE1	1.64	0.45
1:A7:52:PRO:HD3	1:A7:115:THR:O	2.17	0.45
1:BB:49:THR:HG22	1:BB:50:GLY:H	1.82	0.45
2:CP:125:CYS:SG	2:CP:160:HIS:HD2	2.40	0.45
1:AH:49:THR:HG22	1:AH:50:GLY:H	1.82	0.45
1:BC:113:THR:O	1:BC:114:LYS:C	2.55	0.45
2:C6:156:SER:HA	2:C6:160:HIS:CD2	2.52	0.45
2:CM:153:GLN:NE2	3:DM:55:SER:CB	2.80	0.45
2:CY:153:GLN:NE2	3:DY:55:SER:CB	2.80	0.45
2:CH:152:TYR:OH	3:DH:60:PRO:HD3	2.17	0.45
2:C8:156:SER:HA	2:C8:160:HIS:CD2	2.52	0.45
2:CT:152:TYR:OH	3:EA:60:PRO:HD3	198.79	0.45
1:AI:170:PHE:CD2	1:AI:222:ARG:NH1	2.85	0.45
1:AK:170:PHE:CD2	1:AK:222:ARG:NH1	2.85	0.45
1:AM:170:PHE:CD2	1:AM:222:ARG:NH1	2.85	0.45
2:CK:153:GLN:NE2	3:DK:55:SER:CB	2.80	0.45
2:C5:153:GLN:NE2	3:D5:55:SER:CB	2.80	0.45
1:AD:170:PHE:CD2	1:AD:222:ARG:NH1	2.85	0.45
1:AJ:170:PHE:CD2	1:AJ:222:ARG:NH1	2.85	0.45
1:AL:170:PHE:CD2	1:AL:222:ARG:NH1	2.85	0.45
1:AN:170:PHE:CD2	1:AN:222:ARG:NH1	2.85	0.45
2:CD:152:TYR:OH	3:DD:60:PRO:HD3	2.17	0.45
1:BH:170:PHE:CD2	1:BH:222:ARG:NH1	2.85	0.45
1:A7:220:CYS:HA	1:A7:221:PRO:HD2	1.82	0.45
1:AW:170:PHE:CD2	1:AW:222:ARG:NH1	2.85	0.45
2:C8:152:TYR:HB2	2:C8:197:LEU:HD22	1.98	0.45
1:AX:170:PHE:CD2	1:AX:222:ARG:CZ	2.87	0.45
1:AQ:170:PHE:CD2	1:AQ:222:ARG:CZ	2.87	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:108:TRP:O	2:C6:218:ILE:HD12	2.17	0.45
2:CA:158:PHE:O	2:CA:159:PRO:C	2.55	0.45
2:CG:158:PHE:O	2:CG:159:PRO:C	2.56	0.45
2:CB:157:VAL:HG23	3:DB:50:THR:HG21	1.99	0.45
2:CN:158:PHE:O	2:CN:159:PRO:C	2.55	0.45
2:CG:83:LEU:HA	2:CG:84:PRO:HA	1.60	0.45
2:CY:108:TRP:O	2:CY:218:ILE:HD12	2.17	0.45
2:CR:157:VAL:HG23	3:DR:50:THR:HG21	1.99	0.45
2:CQ:108:TRP:O	2:CQ:218:ILE:HD12	2.17	0.45
2:C9:108:TRP:O	2:C9:218:ILE:HD12	2.16	0.45
2:CP:180:PRO:HD2	2:CP:189:HIS:HE1	1.76	0.45
2:CF:69:TRP:CZ3	2:CF:124:LEU:HD11	2.52	0.45
2:C2:135:THR:HG23	2:C2:145:LEU:HD11	1.99	0.45
3:DR:75:GLN:NE2	3:DR:184:GLN:OE1	2.49	0.45
2:C9:157:VAL:HG23	3:D9:50:THR:HG21	1.99	0.45
3:D3:56:ILE:CG1	3:D3:74:PHE:CE1	2.98	0.45
2:C0:69:TRP:CZ3	2:C0:124:LEU:HD11	2.52	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:CO:69:TRP:CZ3	2:CO:124:LEU:HD11	2.52	0.45
2:CT:78:ALA:HB1	2:CT:195:VAL:HG12	1.99	0.45
2:CW:75:HIS:HA	2:CW:198:ILE:O	2.17	0.45
3:ED:56:ILE:CG1	3:ED:74:PHE:CE1	2.98	0.45
2:CQ:75:HIS:HA	2:CQ:198:ILE:O	2.17	0.45
2:CL:69:TRP:CZ3	2:CL:124:LEU:HD11	2.52	0.45
2:CB:54:LEU:HB2	2:CB:220:ALA:HB3	1.99	0.45
2:C2:54:LEU:HB2	2:C2:220:ALA:HB3	1.99	0.45
2:CI:54:LEU:HB2	2:CI:220:ALA:HB3	1.99	0.45
2:CI:54:LEU:HD21	2:CI:97:VAL:HG11	1.99	0.45
2:C8:54:LEU:HB2	2:C8:220:ALA:HB3	1.99	0.45
2:CH:54:LEU:HB2	2:CH:220:ALA:HB3	1.99	0.45
2:CM:54:LEU:HB2	2:CM:220:ALA:HB3	1.99	0.45
2:CU:54:LEU:HD21	2:CU:97:VAL:HG11	1.99	0.45
2:CE:54:LEU:HB2	2:CE:220:ALA:HB3	1.99	0.45
1:AL:43:LEU:H	1:AL:43:LEU:HD23	1.81	0.45
2:CC:54:LEU:HB2	2:CC:220:ALA:HB3	1.99	0.45
2:CP:54:LEU:HD21	2:CP:97:VAL:HG11	1.99	0.45
3:DG:97:PHE:HB3	3:DG:218:HIS:O	2.17	0.45
3:DM:97:PHE:HB3	3:DM:218:HIS:O	2.17	0.45
3:DU:97:PHE:HB3	3:DU:218:HIS:O	2.17	0.45
3:DU:97:PHE:CD1	3:DU:216:LEU:HD23	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:109:VAL:HG22	1:AG:191:HIS:HD2	1.82	0.45
2:CJ:65:LYS:CB	3:DA:135:ARG:HH21	2.29	0.45
1:AS:109:VAL:HG22	1:AS:191:HIS:HD2	1.82	0.45
3:D5:110:PHE:HB3	3:D5:148:VAL:HG11	1.96	0.45
2:CQ:23:ILE:HD12	2:CQ:23:ILE:H	1.80	0.45
4:FI:25:PHE:HZ	4:FJ:22:VAL:HG11	1.81	0.45
4:FT:22:VAL:HG11	4:FX:25:PHE:HZ	203.82	0.45
4:FQ:25:PHE:HZ	4:FR:22:VAL:HG11	1.81	0.45
1:AE:224:ILE:HA	1:AE:225:PRO:HD2	1.86	0.45
2:C2:39:PRO:HB3	2:C2:176:PRO:HA	1.99	0.45
2:CW:39:PRO:HB3	2:CW:176:PRO:HA	1.99	0.45
3:ED:122:VAL:HG22	3:ED:123:ALA:N	2.30	0.45
3:DE:179:VAL:HG12	3:DE:181:GLY:N	2.32	0.45
3:EC:172:ALA:O	3:EC:178:ASN:OD1	2.34	0.45
3:DO:77:ASP:O	3:DO:79:SER:N	2.50	0.45
1:AN:26:VAL:HG12	1:AN:27:HIS:N	2.32	0.45
1:AA:26:VAL:HG12	1:AA:27:HIS:N	2.32	0.45
1:BA:26:VAL:HG12	1:BA:27:HIS:N	2.32	0.45
1:AC:22:VAL:CG1	1:AC:23:ASP:N	2.79	0.45
1:AI:22:VAL:CG1	1:AI:23:ASP:N	2.79	0.45
1:BG:22:VAL:CG1	1:BG:23:ASP:N	2.79	0.45
1:AS:22:VAL:CG1	1:AS:23:ASP:N	2.79	0.45
3:D9:198:VAL:HG23	3:D9:199:ASN:H	1.82	0.45
1:AY:22:VAL:CG1	1:AY:23:ASP:N	2.79	0.45
3:D3:195:ASP:HB2	3:D3:198:VAL:HG22	1.98	0.45
3:D8:195:ASP:HB2	3:D8:198:VAL:HG22	1.98	0.45
1:BH:56:VAL:HG13	1:BH:193:GLY:O	2.17	0.45
3:D9:85:LEU:O	3:D9:91:ALA:CB	2.64	0.45
3:D0:85:LEU:O	3:D0:91:ALA:CB	2.65	0.45
4:FN:16:GLY:O	4:FN:18:SER:N	2.50	0.45
4:FF:16:GLY:O	4:FF:18:SER:N	2.50	0.45
3:EB:134:THR:OG1	3:EB:137:GLU:HG3	2.17	0.45
1:AU:56:VAL:HG13	1:AU:193:GLY:O	2.17	0.45
3:DD:134:THR:OG1	3:DD:137:GLU:HG3	2.17	0.45
3:DM:134:THR:OG1	3:DM:137:GLU:HG3	2.17	0.45
1:A3:45:LEU:HB2	1:A3:202:HIS:HA	1.98	0.45
1:AN:56:VAL:HG13	1:AN:193:GLY:O	2.17	0.45
1:AW:45:LEU:HB2	1:AW:202:HIS:HA	1.98	0.45
3:D1:198:VAL:HG23	3:D1:199:ASN:H	1.82	0.45
3:DH:134:THR:OG1	3:DH:137:GLU:HG3	2.17	0.45
3:DG:134:THR:OG1	3:DG:137:GLU:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:77:ASP:O	3:D8:79:SER:N	2.50	0.45
4:FM:16:GLY:O	4:FM:18:SER:N	2.50	0.45
2:CI:63:THR:CG2	3:DX:188:LEU:HD21	2.47	0.45
2:CT:63:THR:CG2	3:DK:188:LEU:HD21	2.47	0.45
2:CO:63:THR:CG2	3:DR:188:LEU:HD21	140.18	0.45
2:C3:212:THR:HG23	3:DU:188:LEU:HD22	1.96	0.45
2:CF:63:THR:CG2	3:DV:188:LEU:HD21	191.36	0.45
1:AC:13:THR:C	1:AC:14:GLU:HG3	2.38	0.45
1:AJ:13:THR:C	1:AJ:14:GLU:HG3	2.38	0.45
1:AO:13:THR:C	1:AO:14:GLU:HG3	2.38	0.45
2:CJ:46:THR:CG2	3:DF:165:ASP:HA	2.38	0.45
3:DV:103:SER:HB2	3:DV:159:PRO:HA	1.95	0.45
3:DZ:103:SER:HB3	3:DZ:159:PRO:CA	2.35	0.45
3:DY:103:SER:HB3	3:DY:159:PRO:CA	2.35	0.45
1:BC:13:THR:C	1:BC:14:GLU:HG3	2.38	0.45
3:D8:101:ARG:HG2	3:D8:101:ARG:O	2.17	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:AE:121:LEU:HD21	1:AF:206:GLY:CA	136.06	0.45
1:AG:146:ILE:HG22	1:AG:146:ILE:O	2.17	0.45
1:AW:137:GLY:HA2	1:AX:38:PHE:CD1	2.49	0.45
1:BC:146:ILE:O	1:BC:146:ILE:HG22	2.17	0.45
1:BC:82:LEU:CD2	1:BC:84:LEU:HD11	2.46	0.45
3:DB:7:SER:OG	3:DB:11:SER:HB3	2.17	0.45
3:EA:19:PRO:HB3	4:FX:30:TYR:CD2	187.49	0.45
3:DH:19:PRO:HB3	4:FG:30:TYR:CD2	2.52	0.45
3:DI:19:PRO:HB3	4:FH:30:TYR:CD2	2.52	0.45
3:DK:19:PRO:HB3	4:FJ:30:TYR:CD2	239.60	0.45
3:DU:7:SER:OG	3:DU:11:SER:HB3	2.17	0.45
3:D5:7:SER:OG	3:D5:11:SER:HB3	2.17	0.45
3:D1:7:SER:OG	3:D1:11:SER:HB3	2.17	0.45
1:AC:112:PRO:HB2	3:DD:223:PRO:HB3	1.98	0.45
1:AH:112:PRO:HB2	3:DK:223:PRO:HB3	274.52	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:HG22	1:A2:146:ILE:O	2.17	0.45
1:AY:121:LEU:HD21	1:AZ:206:GLY:CA	2.47	0.45
1:AR:112:PRO:HB2	3:DS:223:PRO:HB3	1.97	0.45
1:A5:137:GLY:HA2	1:A6:38:PHE:CD1	2.49	0.45
1:A5:101:PHE:CD2	1:A5:143:VAL:CG1	2.91	0.45
2:CE:135:THR:HG23	2:CE:145:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:52:PRO:HD3	1:AG:115:THR:O	2.17	0.45
1:BF:52:PRO:HD3	1:BF:115:THR:O	2.17	0.45
2:CC:57:THR:HG22	2:CC:58:LEU:H	1.82	0.45
2:CW:57:THR:HG22	2:CW:58:LEU:H	1.82	0.45
1:AD:52:PRO:HD3	1:AD:115:THR:O	2.17	0.45
2:CU:57:THR:HG22	2:CU:58:LEU:H	1.82	0.45
2:CJ:57:THR:HG22	2:CJ:58:LEU:H	1.82	0.45
2:CO:156:SER:HA	2:CO:160:HIS:CD2	2.52	0.45
2:CO:160:HIS:HE2	3:DO:51:TYR:HE1	1.64	0.45
2:CM:125:CYS:SG	2:CM:160:HIS:HD2	2.40	0.45
1:AI:52:PRO:HD3	1:AI:115:THR:O	2.17	0.45
2:CB:156:SER:HA	2:CB:160:HIS:CD2	2.52	0.45
2:CB:125:CYS:SG	2:CB:160:HIS:HD2	2.40	0.45
2:CS:57:THR:HG22	2:CS:58:LEU:H	1.82	0.45
2:CT:57:THR:HG22	2:CT:58:LEU:H	1.83	0.45
2:CJ:156:SER:HA	2:CJ:160:HIS:CD2	2.52	0.45
2:CZ:57:THR:HG22	2:CZ:58:LEU:H	1.82	0.45
2:CC:156:SER:HA	2:CC:160:HIS:CD2	2.52	0.45
2:CR:156:SER:HA	2:CR:160:HIS:CD2	2.52	0.45
1:AV:52:PRO:HD3	1:AV:115:THR:O	2.17	0.45
2:CI:125:CYS:SG	2:CI:160:HIS:HD2	2.40	0.45
2:CJ:153:GLN:NE2	3:DJ:55:SER:CB	2.80	0.45
3:DT:108:PHE:O	3:DT:153:ALA:HA	2.15	0.45
1:AC:170:PHE:CD2	1:AC:222:ARG:NH1	2.85	0.45
2:CR:153:GLN:NE2	3:DR:55:SER:CB	2.80	0.45
2:CA:152:TYR:OH	3:DA:60:PRO:HD3	2.17	0.45
2:CS:153:GLN:NE2	3:DS:55:SER:CB	2.80	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:CC:152:TYR:OH	3:DC:60:PRO:HD3	2.17	0.45
1:AR:170:PHE:CD2	1:AR:222:ARG:NH1	2.85	0.45
1:AR:30:VAL:HG13	1:AR:218:MET:HE2	1.99	0.45
2:CV:13:ARG:HD3	2:CV:13:ARG:HA	1.72	0.45
2:CD:153:GLN:NE2	3:DD:55:SER:CB	2.80	0.45
2:CT:108:TRP:O	2:CT:218:ILE:HD12	2.17	0.45
2:C1:108:TRP:O	2:C1:218:ILE:HD12	2.16	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:CC:158:PHE:O	2:CC:159:PRO:C	2.55	0.45
2:CI:158:PHE:O	2:CI:159:PRO:C	2.55	0.45
2:CF:158:PHE:O	2:CF:159:PRO:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:157:VAL:HG23	3:DL:50:THR:HG21	1.99	0.45
2:CP:158:PHE:O	2:CP:159:PRO:C	2.55	0.45
2:CZ:84:PRO:HD3	2:CZ:108:TRP:CZ2	2.49	0.45
2:CY:158:PHE:O	2:CY:159:PRO:C	2.55	0.45
1:AH:219:TYR:HD2	3:DH:39:ARG:HB2	1.79	0.45
1:AI:219:TYR:HD2	3:DI:39:ARG:HB2	1.79	0.45
2:C8:158:PHE:O	2:C8:159:PRO:C	2.55	0.45
2:CF:75:HIS:HA	2:CF:198:ILE:O	2.17	0.45
3:EB:56:ILE:CG1	3:EB:74:PHE:CE1	2.98	0.45
2:CV:69:TRP:CZ3	2:CV:124:LEU:HD11	2.52	0.45
2:CV:78:ALA:HB1	2:CV:195:VAL:HG12	1.99	0.45
2:CV:75:HIS:NE2	3:EC:59:LYS:HB3	272.31	0.45
2:C0:158:PHE:O	2:C0:159:PRO:C	2.55	0.45
2:C9:158:PHE:O	2:C9:159:PRO:C	2.55	0.45
2:C1:75:HIS:HA	2:C1:198:ILE:O	2.17	0.45
2:CH:69:TRP:CZ3	2:CH:124:LEU:HD11	2.52	0.45
2:CD:78:ALA:HB1	2:CD:195:VAL:HG12	1.99	0.45
2:CL:78:ALA:HB1	2:CL:195:VAL:HG12	1.99	0.45
2:CS:54:LEU:HB2	2:CS:220:ALA:HB3	1.99	0.45
2:CO:54:LEU:HB2	2:CO:220:ALA:HB3	1.99	0.45
2:C4:54:LEU:HB2	2:C4:220:ALA:HB3	1.99	0.45
2:CV:54:LEU:HB2	2:CV:220:ALA:HB3	1.99	0.45
2:CD:54:LEU:HD21	2:CD:97:VAL:HG11	1.99	0.45
2:C1:54:LEU:HB2	2:C1:220:ALA:HB3	1.99	0.45
2:CT:54:LEU:HB2	2:CT:220:ALA:HB3	1.99	0.45
2:CP:54:LEU:HB2	2:CP:220:ALA:HB3	1.99	0.45
3:DP:97:PHE:HB3	3:DP:218:HIS:O	2.17	0.45
1:BF:43:LEU:CD2	1:BF:43:LEU:N	2.74	0.45
3:DX:97:PHE:HB3	3:DX:218:HIS:O	2.17	0.45
3:DL:97:PHE:HB3	3:DL:218:HIS:O	2.17	0.45
3:DT:97:PHE:CD1	3:DT:216:LEU:HD23	2.51	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:AK:109:VAL:HG22	1:AK:191:HIS:HD2	1.82	0.45
2:CM:65:LYS:CB	3:DD:135:ARG:HH21	164.35	0.45
2:CF:65:LYS:CB	3:DV:135:ARG:HH21	199.15	0.45
2:CK:39:PRO:HB3	2:CK:176:PRO:HA	1.99	0.45
2:CP:36:TYR:CE2	2:CP:130:PRO:CG	2.98	0.45
2:CB:129:VAL:HA	2:CB:130:PRO:HD3	1.78	0.45
2:CX:39:PRO:HB3	2:CX:176:PRO:HA	1.99	0.45
2:CE:39:PRO:HB3	2:CE:176:PRO:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:39:PRO:HB3	2:C4:176:PRO:HA	1.99	0.45
2:CI:39:PRO:HB3	2:CI:176:PRO:HA	1.99	0.45
3:DY:179:VAL:HG12	3:DY:181:GLY:N	2.32	0.45
3:D3:179:VAL:HG12	3:D3:181:GLY:N	2.32	0.45
3:EB:179:VAL:HG12	3:EB:181:GLY:N	2.33	0.45
3:D7:122:VAL:HG22	3:D7:123:ALA:N	2.30	0.45
2:C7:216:ALA:HA	2:C7:217:PRO:HD3	1.78	0.45
3:D3:154:PHE:CG	3:D3:155:SER:N	2.84	0.45
3:DV:154:PHE:CG	3:DV:155:SER:N	2.84	0.45
3:D5:154:PHE:CG	3:D5:155:SER:N	2.84	0.45
2:CI:92:GLY:HA3	2:CN:228:ASN:OD1	235.07	0.45
2:CO:92:GLY:HA3	2:CQ:228:ASN:OD1	134.64	0.45
1:AH:55:HIS:O	1:AH:194:SER:HB2	2.17	0.45
1:AY:107:PHE:HB2	1:AY:194:SER:OG	2.17	0.45
1:AP:107:PHE:HB2	1:AP:194:SER:OG	2.16	0.45
1:BC:107:PHE:HB2	1:BC:194:SER:OG	2.17	0.45
2:CP:228:ASN:OD1	2:CZ:92:GLY:HA3	85.34	0.45
3:DL:77:ASP:O	3:DL:79:SER:N	2.50	0.45
3:DV:77:ASP:O	3:DV:79:SER:N	2.50	0.45
1:AF:26:VAL:HG12	1:AF:27:HIS:N	2.32	0.45
1:AO:26:VAL:HG12	1:AO:27:HIS:N	2.32	0.45
1:AH:26:VAL:HG12	1:AH:27:HIS:N	2.32	0.45
1:A6:26:VAL:HG12	1:A6:27:HIS:N	2.32	0.45
3:DQ:84:GLU:H	3:DQ:84:GLU:CD	2.20	0.45
3:EB:84:GLU:H	3:EB:84:GLU:CD	2.21	0.45
3:DU:198:VAL:HG23	3:DU:199:ASN:H	1.82	0.45
3:DJ:134:THR:OG1	3:DJ:137:GLU:HG3	2.17	0.45
3:DS:134:THR:OG1	3:DS:137:GLU:HG3	2.17	0.45
3:DK:134:THR:OG1	3:DK:137:GLU:HG3	2.17	0.45
1:AF:92:THR:HB	1:AF:93:THR:H	1.62	0.45
4:FN:32:ASN:HB3	4:FN:33:SER:H	1.58	0.45
3:DU:85:LEU:O	3:DU:91:ALA:CB	2.64	0.45
3:DM:85:LEU:O	3:DM:91:ALA:CB	2.64	0.45
3:EC:85:LEU:O	3:EC:91:ALA:CB	2.65	0.45
4:F6:16:GLY:O	4:F6:18:SER:N	2.50	0.45
4:FZ:16:GLY:O	4:FZ:18:SER:N	2.50	0.45
1:A3:56:VAL:HG13	1:A3:193:GLY:O	2.17	0.45
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
1:BG:56:VAL:HG13	1:BG:193:GLY:O	2.17	0.45
4:FT:32:ASN:HB3	4:FT:33:SER:H	1.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:63:THR:CG2	3:DS:188:LEU:HD21	158.01	0.44
3:DX:120:PHE:HD2	3:DX:146:TRP:CH2	2.34	0.44
2:CJ:63:THR:CG2	3:DM:188:LEU:HD21	229.46	0.44
2:CV:63:THR:CG2	3:DD:188:LEU:HD21	140.18	0.44
2:CU:63:THR:CG2	3:DG:188:LEU:HD21	235.39	0.44
2:CG:115:ASN:CA	3:EB:119:LYS:HZ3	2.30	0.44
2:CA:63:THR:CG2	3:DW:188:LEU:HD21	2.47	0.44
1:AB:13:THR:C	1:AB:14:GLU:HG3	2.38	0.44
1:BF:13:THR:C	1:BF:14:GLU:HG3	2.38	0.44
3:DU:101:ARG:HG2	3:DU:101:ARG:O	2.17	0.44
1:AV:13:THR:C	1:AV:14:GLU:HG3	2.37	0.44
1:A8:143:VAL:H	3:DA:14:PHE:CB	233.73	0.44
1:A9:101:PHE:CD2	1:A9:143:VAL:CG1	2.91	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
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:HG22	1:AH:146:ILE:O	2.17	0.44
1:AK:146:ILE:HG22	1:AK:146:ILE:O	2.17	0.44
1:AM:121:LEU:HD21	1:AN:206:GLY:CA	2.47	0.44
1:AN:137:GLY:HA2	1:AO:38:PHE:CD1	2.48	0.44
1:AS:139:SER:HA	1:AS:140:PRO:HD3	1.62	0.44
1:AX:139:SER:HA	1:AX:140:PRO:HD3	1.62	0.44
1:BA:137:GLY:HA2	1:BB:38:PHE:CD1	2.48	0.44
1:BG:82:LEU:CD2	1:BG:84:LEU:HD11	2.46	0.44
1:BE:206:GLY:CA	1:BI:121:LEU:HD21	2.47	0.44
3:DA:8:VAL:CG1	3:DA:9:PRO:HD2	2.39	0.44
3:DE:7:SER:OG	3:DE:11:SER:HB3	2.17	0.44
3:DI:7:SER:OG	3:DI:11:SER:HB3	2.17	0.44
3:DA:19:PRO:HB3	4:F9:30:TYR:CD2	206.07	0.44
3:DR:19:PRO:HB3	4:FQ:30:TYR:CD2	2.52	0.44
3:DW:19:PRO:HB3	4:FV:30:TYR:CD2	2.52	0.44
3:DH:7:SER:OG	3:DH:11:SER:HB3	2.17	0.44
1:A6:101:PHE:CD2	1:A6:143:VAL:CG1	2.91	0.44
3:D5:19:PRO:HB3	4:F4:30:TYR:CD2	2.52	0.44
3:EE:7:SER:OG	3:EE:11:SER:HB3	2.17	0.44
1:A0:121:LEU:HD21	1:A1:206:GLY:CA	2.47	0.44
3:D7:7:SER:OG	3:D7:11:SER:HB3	2.17	0.44
2:CV:135:THR:HG23	2:CV:145:LEU:HD11	1.99	0.44
2:CM:135:THR:HG23	2:CM:145:LEU:HD11	1.98	0.44
2:CS:134:HIS:HB3	2:CS:135:THR:H	1.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:135:THR:HG23	2:CB:145:LEU:HD11	1.98	0.44
2:C4:135:THR:HG23	2:C4:145:LEU:HD11	1.99	0.44
1:BD:52:PRO:HD3	1:BD:115:THR:O	2.17	0.44
1:AT:52:PRO:HD3	1:AT:115:THR:O	2.17	0.44
2:CA:57:THR:HG22	2:CA:58:LEU:H	1.82	0.44
1:BG:113:THR:O	1:BG:114:LYS:C	2.55	0.44
1:BG:49:THR:HG22	1:BG:50:GLY:H	1.82	0.44
1:AZ:49:THR:HG22	1:AZ:50:GLY:H	1.82	0.44
2:CX:57:THR:HG22	2:CX:58:LEU:H	1.82	0.44
1:AA:52:PRO:HD3	1:AA:115:THR:O	2.17	0.44
2:CM:57:THR:HG22	2:CM:58:LEU:H	1.82	0.44
2:CR:57:THR:HG22	2:CR:58:LEU:H	1.82	0.44
2:CO:125:CYS:SG	2:CO:160:HIS:HD2	2.41	0.44
2:CM:156:SER:HA	2:CM:160:HIS:CD2	2.52	0.44
2:CQ:125:CYS:SG	2:CQ:160:HIS:HD2	2.40	0.44
1:AM:52:PRO:HD3	1:AM:115:THR:O	2.17	0.44
2:CV:125:CYS:SG	2:CV:160:HIS:HD2	2.40	0.44
2:C7:156:SER:HA	2:C7:160:HIS:CD2	2.52	0.44
1:AQ:113:THR:O	1:AQ:114:LYS:C	2.55	0.44
2:C3:156:SER:HA	2:C3:160:HIS:CD2	2.52	0.44
1:AU:52:PRO:HD3	1:AU:115:THR:O	2.17	0.44
1:AS:103:TRP:HB2	1:AS:198:THR:HG23	1.96	0.44
2:CX:125:CYS:SG	2:CX:160:HIS:HD2	2.40	0.44
2:CI:156:SER:HA	2:CI:160:HIS:CD2	2.52	0.44
2:CZ:156:SER:HA	2:CZ:160:HIS:CD2	2.52	0.44
2:CY:156:SER:HA	2:CY:160:HIS:CD2	2.52	0.44
2:CY:125:CYS:SG	2:CY:160:HIS:HD2	2.40	0.44
2:C6:125:CYS:SG	2:C6:160:HIS:HD2	2.41	0.44
2:CI:152:TYR:OH	3:DI:60:PRO:HD3	2.17	0.44
2:CN:152:TYR:OH	3:DN:60:PRO:HD3	2.17	0.44
2:CJ:152:TYR:OH	3:DJ:60:PRO:HD3	2.17	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:CG:153:GLN:NE2	3:DG:55:SER:CB	2.80	0.44
2:CA:153:GLN:NE2	3:DA:55:SER:CB	2.80	0.44
1:BC:220:CYS:HA	1:BC:221:PRO:HD2	1.82	0.44
1:BF:170:PHE:CD2	1:BF:222:ARG:CZ	2.87	0.44
1:A4:170:PHE:CD2	1:A4:222:ARG:NH1	2.85	0.44
2:C8:153:GLN:NE2	3:D8:55:SER:CB	2.80	0.44
1:AQ:170:PHE:CD2	1:AQ:222:ARG:NH1	2.85	0.44
1:A6:170:PHE:CD2	1:A6:222:ARG:NH1	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:170:PHE:CD2	1:AS:222:ARG:NH1	2.85	0.44
2:C1:84:PRO:HG3	2:C1:108:TRP:CH2	2.50	0.44
2:CK:108:TRP:O	2:CK:218:ILE:HD12	2.16	0.44
2:CE:157:VAL:HG23	3:DE:50:THR:HG21	1.99	0.44
2:CM:158:PHE:O	2:CM:159:PRO:C	2.55	0.44
2:CN:157:VAL:HG23	3:DN:50:THR:HG21	1.99	0.44
2:CT:157:VAL:HG23	3:DT:50:THR:HG21	1.99	0.44
2:C1:180:PRO:HD2	2:C1:189:HIS:HE1	1.77	0.44
1:AW:165:ARG:HG2	2:CX:180:PRO:O	2.16	0.44
2:CG:75:HIS:HA	2:CG:198:ILE:O	2.17	0.44
2:CA:78:ALA:HB1	2:CA:195:VAL:HG12	1.99	0.44
2:CK:69:TRP:CZ3	2:CK:124:LEU:HD11	2.52	0.44
2:CP:69:TRP:CZ3	2:CP:124:LEU:HD11	2.52	0.44
3:DA:75:GLN:NE2	3:DA:184:GLN:OE1	2.49	0.44
3:DF:75:GLN:NE2	3:DF:184:GLN:OE1	2.49	0.44
3:DP:56:ILE:CG1	3:DP:74:PHE:CE1	2.98	0.44
3:EC:56:ILE:CG1	3:EC:74:PHE:CE1	2.98	0.44
2:CZ:69:TRP:CZ3	2:CZ:124:LEU:HD11	2.52	0.44
2:C4:69:TRP:CZ3	2:C4:124:LEU:HD11	2.52	0.44
1:AK:62:SER:HB2	1:AK:73:ASN:ND2	2.27	0.44
2:C5:78:ALA:HB1	2:C5:195:VAL:HG12	1.99	0.44
2:C8:69:TRP:CZ3	2:C8:124:LEU:HD11	2.52	0.44
2:CW:69:TRP:CZ3	2:CW:124:LEU:HD11	2.52	0.44
2:C6:134:HIS:HB3	2:C6:135:THR:H	1.46	0.44
2:CX:69:TRP:CZ3	2:CX:124:LEU:HD11	2.52	0.44
2:CN:69:TRP:CZ3	2:CN:124:LEU:HD11	2.52	0.44
2:C2:54:LEU:HD21	2:C2:97:VAL:HG11	1.99	0.44
2:CW:54:LEU:HD21	2:CW:97:VAL:HG11	1.99	0.44
2:C4:54:LEU:HD21	2:C4:97:VAL:HG11	1.99	0.44
2:C8:54:LEU:HD21	2:C8:97:VAL:HG11	1.99	0.44
2:CG:54:LEU:HD21	2:CG:97:VAL:HG11	1.99	0.44
2:CJ:54:LEU:HD21	2:CJ:97:VAL:HG11	1.99	0.44
2:CL:54:LEU:HD21	2:CL:97:VAL:HG11	1.99	0.44
2:CK:54:LEU:HB2	2:CK:220:ALA:HB3	1.99	0.44
3:ED:97:PHE:CD1	3:ED:216:LEU:HD23	2.51	0.44
3:D1:97:PHE:HB3	3:D1:218:HIS:O	2.17	0.44
3:DV:97:PHE:HB3	3:DV:218:HIS:O	2.17	0.44
3:DC:97:PHE:HB3	3:DC:218:HIS:O	2.17	0.44
3:DJ:97:PHE:HB3	3:DJ:218:HIS:O	2.17	0.44
3:DQ:97:PHE:HB3	3:DQ:218:HIS:O	2.17	0.44
3:DS:97:PHE:HB3	3:DS:218:HIS:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:242:ASN:ND2	1:AN:110:GLY:H	250.04	0.44
1:AT:109:VAL:HG22	1:AT:191:HIS:HD2	1.82	0.44
2:CS:65:LYS:CB	3:DC:135:ARG:HH21	265.98	0.44
1:AZ:109:VAL:HG22	1:AZ:191:HIS:HD2	1.82	0.44
2:C2:23:ILE:HD12	2:C2:23:ILE:H	1.80	0.44
4:F4:22:VAL:HG11	4:F8:25:PHE:HZ	1.81	0.44
2:CS:39:PRO:HB3	2:CS:176:PRO:HA	1.99	0.44
2:CM:39:PRO:HB3	2:CM:176:PRO:HA	1.99	0.44
2:CC:39:PRO:HB3	2:CC:176:PRO:HA	1.99	0.44
3:DS:179:VAL:HG12	3:DS:181:GLY:N	2.32	0.44
3:DU:172:ALA:O	3:DU:178:ASN:OD1	2.35	0.44
3:D4:179:VAL:HG12	3:D4:181:GLY:N	2.32	0.44
3:D1:175:THR:OG1	3:D1:178:ASN:ND2	2.51	0.44
3:D6:154:PHE:CG	3:D6:155:SER:N	2.84	0.44
2:CI:92:GLY:HA3	2:CW:228:ASN:OD1	2.16	0.44
1:A9:107:PHE:HB2	1:A9:194:SER:OG	2.16	0.44
1:BF:26:VAL:HG12	1:BF:27:HIS:N	2.32	0.44
1:BH:26:VAL:HG12	1:BH:27:HIS:N	2.32	0.44
3:DX:84:GLU:CD	3:DX:84:GLU:H	2.21	0.44
1:AE:22:VAL:HG12	1:AE:23:ASP:N	2.33	0.44
1:A2:22:VAL:HG12	1:A2:23:ASP:N	2.33	0.44
1:A6:45:LEU:HB2	1:A6:202:HIS:HA	1.98	0.44
3:DB:134:THR:OG1	3:DB:137:GLU:HG3	2.17	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:D2:85:LEU:O	3:D2:91:ALA:CB	2.64	0.44
2:CA:42:ARG:HA	2:CA:43:PRO:HD2	1.64	0.44
3:ED:134:THR:OG1	3:ED:137:GLU:HG3	2.17	0.44
3:EE:134:THR:OG1	3:EE:137:GLU:HG3	2.17	0.44
4:FA:16:GLY:O	4:FA:18:SER:N	2.50	0.44
3:DY:85:LEU:O	3:DY:91:ALA:CB	2.65	0.44
1:A9:234:LYS:HA	1:A9:234:LYS:HD3	1.89	0.44
2:CN:42:ARG:HA	2:CN:43:PRO:HD2	1.64	0.44
3:DI:134:THR:OG1	3:DI:137:GLU:HG3	2.17	0.44
3:D8:134:THR:OG1	3:D8:137:GLU:HG3	2.17	0.44
2:CH:63:THR:CG2	3:DN:188:LEU:HD21	253.65	0.44
2:CJ:63:THR:CG2	3:DA:188:LEU:HD21	2.47	0.44
2:CR:63:THR:CG2	3:DI:188:LEU:HD21	158.01	0.44
2:C6:63:THR:CG2	3:DE:188:LEU:HD21	2.47	0.44
1:AE:13:THR:C	1:AE:14:GLU:HG3	2.38	0.44
1:AG:13:THR:C	1:AG:14:GLU:HG3	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:13:THR:C	1:AL:14:GLU:HG3	2.38	0.44
3:DT:101:ARG:HG2	3:DT:101:ARG:O	2.17	0.44
3:D3:101:ARG:O	3:D3:101:ARG:HG2	2.17	0.44
1:BI:13:THR:C	1:BI:14:GLU:HG3	2.38	0.44
2:C8:46:THR:CG2	3:D4:165:ASP:HA	2.38	0.44
2:CY:49:ASP:HA	2:CY:50:PRO:HD2	1.81	0.44
1:A0:13:THR:C	1:A0:14:GLU:HG3	2.38	0.44
1:A1:13:THR:C	1:A1:14:GLU:HG3	2.38	0.44
3:D2:101:ARG:HG2	3:D2:101:ARG:O	2.17	0.44
1:A8:101:PHE:CD2	1:A8:143:VAL:HG11	2.44	0.44
1:AA:121:LEU:HD21	1:AB:206:GLY:CA	2.47	0.44
1:AB:143:VAL:H	3:D9:14:PHE:CB	220.37	0.44
1:AE:146:ILE:HG22	1:AE:146:ILE:O	2.17	0.44
1:AI:146:ILE:O	1:AI:146:ILE:HG22	2.17	0.44
1:AJ:146:ILE:O	1:AJ:146:ILE:HG22	2.18	0.44
1:AO:137:GLY:HA2	1:AS:38:PHE:CD1	97.16	0.44
1:AO:146:ILE:HG22	1:AO:146:ILE:O	2.17	0.44
1:AP:38:PHE:CD1	1:AS:137:GLY:HA2	2.48	0.44
1:AU:146:ILE:O	1:AU:146:ILE:HG22	2.17	0.44
1:AV:137:GLY:HA2	1:AW:38:PHE:CD1	2.49	0.44
1:BA:146:ILE:HG22	1:BA:146:ILE:O	2.17	0.44
1:BC:121:LEU:HD13	1:BC:121:LEU:C	2.36	0.44
3:DR:7:SER:OG	3:DR:11:SER:HB3	2.17	0.44
3:DT:7:SER:OG	3:DT:11:SER:HB3	2.17	0.44
3:EB:19:PRO:HB3	4:FT:30:TYR:CD2	156.71	0.44
3:DE:19:PRO:HB3	4:FD:30:TYR:CD2	2.52	0.44
3:ED:19:PRO:HB3	4:FV:30:TYR:CD2	211.70	0.44
3:DG:7:SER:OG	3:DG:11:SER:HB3	2.17	0.44
3:D3:7:SER:OG	3:D3:11:SER:HB3	2.17	0.44
3:D0:7:SER:OG	3:D0:11:SER:HB3	2.17	0.44
1:AU:121:LEU:HD21	1:AV:206:GLY:CA	2.47	0.44
1:AN:112:PRO:HB2	3:DO:223:PRO:HB3	1.98	0.44
3:D0:19:PRO:HG3	4:F0:17:ASN:ND2	2.26	0.44
1:A5:143:VAL:H	3:D7:14:PHE:CB	2.28	0.44
1:BF:183:THR:HA	1:BF:186:TRP:HB3	1.98	0.44
1:AG:174:TRP:HB2	2:CI:188:LEU:CD2	102.19	0.44
1:AB:52:PRO:HD3	1:AB:115:THR:O	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
2:C7:57:THR:HG22	2:C7:58:LEU:H	1.82	0.44
1:BI:113:THR:O	1:BI:114:LYS:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:125:CYS:SG	2:CD:160:HIS:HD2	2.40	0.44
1:A8:52:PRO:HD3	1:A8:115:THR:O	2.17	0.44
1:A9:52:PRO:HD3	1:A9:115:THR:O	2.17	0.44
2:C9:125:CYS:SG	2:C9:160:HIS:HD2	2.40	0.44
2:C4:156:SER:HA	2:C4:160:HIS:CD2	2.52	0.44
2:CH:156:SER:HA	2:CH:160:HIS:CD2	2.52	0.44
1:AI:49:THR:HG22	1:AI:50:GLY:H	1.82	0.44
1:BH:52:PRO:HD3	1:BH:115:THR:O	2.17	0.44
2:CL:57:THR:HG22	2:CL:58:LEU:H	1.82	0.44
2:CF:156:SER:HA	2:CF:160:HIS:CD2	2.52	0.44
2:CL:156:SER:HA	2:CL:160:HIS:CD2	2.52	0.44
2:CU:156:SER:HA	2:CU:160:HIS:CD2	2.52	0.44
2:CU:125:CYS:SG	2:CU:160:HIS:HD2	2.40	0.44
2:C7:125:CYS:SG	2:C7:160:HIS:HD2	2.40	0.44
1:AY:103:TRP:HB2	1:AY:198:THR:HG23	1.96	0.44
2:C0:156:SER:HA	2:C0:160:HIS:CD2	2.52	0.44
2:CP:156:SER:HA	2:CP:160:HIS:CD2	2.52	0.44
2:CH:152:TYR:HB3	2:CH:197:LEU:HD22	2.00	0.44
2:CU:153:GLN:NE2	3:EB:55:SER:CB	249.34	0.44
2:CT:152:TYR:OH	3:DT:60:PRO:HD3	2.17	0.44
2:CG:152:TYR:HB3	2:CG:197:LEU:HD22	2.00	0.44
1:AA:170:PHE:CD2	1:AA:222:ARG:NH1	2.85	0.44
1:AG:170:PHE:CD2	1:AG:222:ARG:NH1	2.85	0.44
1:BD:170:PHE:CD2	1:BD:222:ARG:NH1	2.85	0.44
2:CW:153:GLN:NE2	3:DW:55:SER:CB	2.80	0.44
2:C5:152:TYR:OH	3:D5:60:PRO:HD3	2.17	0.44
2:CZ:152:TYR:OH	3:DZ:60:PRO:HD3	2.17	0.44
2:C4:153:GLN:NE2	3:D4:55:SER:CB	2.80	0.44
1:AB:170:PHE:CD2	1:AB:222:ARG:NH1	2.85	0.44
2:C1:152:TYR:OH	3:D1:60:PRO:HD3	2.17	0.44
2:C7:153:GLN:NE2	3:D7:55:SER:CB	2.80	0.44
1:AV:170:PHE:CD2	1:AV:222:ARG:NH1	2.85	0.44
1:A1:170:PHE:CD2	1:A1:222:ARG:CZ	2.87	0.44
2:CP:108:TRP:O	2:CP:218:ILE:HD12	2.16	0.44
2:CA:157:VAL:HG23	3:DA:50:THR:HG21	1.99	0.44
2:CG:157:VAL:HG23	3:DG:50:THR:HG21	1.99	0.44
2:CY:84:PRO:HD2	2:CY:186:LEU:CD2	2.48	0.44
2:CU:157:VAL:HG23	3:DU:50:THR:HG21	1.99	0.44
2:CW:158:PHE:O	2:CW:159:PRO:C	2.55	0.44
2:CQ:157:VAL:HG23	3:DQ:50:THR:HG21	1.99	0.44
2:CQ:84:PRO:HD2	2:CQ:186:LEU:CD2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:165:ARG:HG2	2:CJ:180:PRO:O	2.16	0.44
1:A0:219:TYR:HD2	3:D1:39:ARG:HB2	1.79	0.44
2:CQ:135:THR:HG23	2:CQ:145:LEU:HD11	1.99	0.44
1:AP:219:TYR:HD2	3:DP:39:ARG:HB2	1.79	0.44
2:CG:69:TRP:CZ3	2:CG:124:LEU:HD11	2.53	0.44
2:CZ:158:PHE:O	2:CZ:159:PRO:C	2.55	0.44
2:CV:157:VAL:HG23	3:DV:50:THR:HG21	1.99	0.44
2:CA:75:HIS:HA	2:CA:198:ILE:O	2.17	0.44
2:CU:75:HIS:HA	2:CU:198:ILE:O	2.17	0.44
2:C4:163:LEU:HD21	2:C4:169:SER:C	2.36	0.44
2:C2:69:TRP:CZ3	2:C2:124:LEU:HD11	2.52	0.44
3:D2:75:GLN:NE2	3:D2:184:GLN:OE1	2.49	0.44
1:A8:184:TYR:CE2	2:C9:139:ALA:HB2	2.51	0.44
1:AC:62:SER:HB2	1:AC:73:ASN:ND2	2.27	0.44
2:C0:75:HIS:HA	2:C0:198:ILE:O	2.17	0.44
2:CT:69:TRP:CZ3	2:CT:124:LEU:HD11	2.52	0.44
2:CQ:69:TRP:CZ3	2:CQ:124:LEU:HD11	2.52	0.44
2:CD:69:TRP:CZ3	2:CD:124:LEU:HD11	2.52	0.44
2:CS:69:TRP:CZ3	2:CS:124:LEU:HD11	2.52	0.44
2:CX:78:ALA:HB1	2:CX:195:VAL:HG12	1.99	0.44
2:CI:69:TRP:CZ3	2:CI:124:LEU:HD11	2.52	0.44
2:CZ:135:THR:HG23	2:CZ:145:LEU:HD11	1.99	0.44
2:CU:54:LEU:HB2	2:CU:220:ALA:HB3	1.99	0.44
2:CA:54:LEU:HD21	2:CA:97:VAL:HG11	1.99	0.44
2:CR:54:LEU:HB2	2:CR:220:ALA:HB3	1.99	0.44
1:AC:43:LEU:HD23	1:AC:43:LEU:H	1.81	0.44
3:DF:97:PHE:HB3	3:DF:218:HIS:O	2.17	0.44
3:ED:97:PHE:HB3	3:ED:218:HIS:O	2.17	0.44
3:D9:97:PHE:HB3	3:D9:218:HIS:O	2.17	0.44
3:DI:97:PHE:HB3	3:DI:218:HIS:O	2.17	0.44
3:D6:97:PHE:HB3	3:D6:218:HIS:O	2.17	0.44
1:AF:109:VAL:HG22	1:AF:191:HIS:HD2	1.82	0.44
1:AO:109:VAL:HG22	1:AO:191:HIS:HD2	1.82	0.44
2:CW:65:LYS:CB	3:DS:135:ARG:HH21	247.50	0.44
4:FJ:25:PHE:HZ	4:FK:22:VAL:HG11	240.51	0.44
4:F7:25:PHE:HZ	4:F8:22:VAL:HG11	1.81	0.44
2:CG:39:PRO:HB3	2:CG:176:PRO:HA	1.99	0.44
2:CU:39:PRO:HB3	2:CU:176:PRO:HA	1.99	0.44
2:C8:39:PRO:HB3	2:C8:176:PRO:HA	1.99	0.44
3:DF:179:VAL:HG12	3:DF:181:GLY:N	2.32	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:EE:179:VAL:HG12	3:EE:181:GLY:N	2.32	0.44
3:DQ:179:VAL:HG12	3:DQ:181:GLY:N	2.33	0.44
3:DG:179:VAL:HG12	3:DG:181:GLY:N	2.33	0.44
3:D0:179:VAL:HG12	3:D0:181:GLY:N	2.32	0.44
3:DQ:175:THR:OG1	3:DQ:178:ASN:ND2	2.51	0.44
3:D8:175:THR:OG1	3:D8:178:ASN:ND2	2.51	0.44
3:D9:154:PHE:CG	3:D9:155:SER:N	2.84	0.44
1:AR:107:PHE:HB2	1:AR:194:SER:OG	2.17	0.44
2:CA:228:ASN:OD1	2:CV:92:GLY:HA3	2.16	0.44
1:AK:55:HIS:O	1:AK:194:SER:HB2	2.17	0.44
1:AI:55:HIS:O	1:AI:194:SER:HB2	2.18	0.44
3:DF:77:ASP:O	3:DF:79:SER:N	2.50	0.44
3:EE:77:ASP:O	3:EE:79:SER:N	2.50	0.44
3:DX:77:ASP:O	3:DX:79:SER:N	2.50	0.44
3:DW:77:ASP:O	3:DW:79:SER:N	2.50	0.44
3:D6:77:ASP:O	3:D6:79:SER:N	2.50	0.44
3:D7:77:ASP:O	3:D7:79:SER:N	2.50	0.44
1:AG:26:VAL:HG12	1:AG:27:HIS:N	2.32	0.44
1:AM:22:VAL:HG12	1:AM:23:ASP:N	2.33	0.44
1:AC:22:VAL:HG12	1:AC:23:ASP:N	2.33	0.44
1:AA:22:VAL:HG12	1:AA:23:ASP:N	2.33	0.44
1:BD:22:VAL:CG1	1:BD:23:ASP:N	2.79	0.44
3:DW:84:GLU:H	3:DW:84:GLU:CD	2.21	0.44
1:AL:22:VAL:HG12	1:AL:23:ASP:N	2.33	0.44
1:AH:22:VAL:HG12	1:AH:23:ASP:N	2.33	0.44
1:A4:22:VAL:CG1	1:A4:23:ASP:N	2.79	0.44
1:AJ:22:VAL:HG12	1:AJ:23:ASP:N	2.33	0.44
1:A9:22:VAL:CG1	1:A9:23:ASP:N	2.79	0.44
1:AS:22:VAL:HG12	1:AS:23:ASP:N	2.33	0.44
3:DD:198:VAL:HG23	3:DD:199:ASN:H	1.82	0.44
1:AY:22:VAL:HG12	1:AY:23:ASP:N	2.33	0.44
4:FW:16:GLY:O	4:FW:18:SER:N	2.50	0.44
3:DX:195:ASP:HB2	3:DX:198:VAL:HG22	1.98	0.44
3:EA:134:THR:OG1	3:EA:137:GLU:HG3	2.17	0.44
1:A7:45:LEU:HB2	1:A7:202:HIS:HA	1.98	0.44
4:F5:16:GLY:O	4:F5:18:SER:N	2.50	0.44
1:AC:56:VAL:HG13	1:AC:193:GLY:O	2.17	0.44
1:AL:56:VAL:HG13	1:AL:193:GLY:O	2.17	0.44
3:DP:85:LEU:O	3:DP:91:ALA:CB	2.64	0.44
1:AY:56:VAL:HG13	1:AY:193:GLY:O	2.17	0.44
3:DQ:134:THR:OG1	3:DQ:137:GLU:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:45:LEU:HB2	1:BD:202:HIS:HA	1.98	0.44
3:EC:36:VAL:HA	3:EC:37:PRO:HD3	1.53	0.44
2:CH:117:SER:HB3	3:DN:192:THR:CG2	264.08	0.44
2:CQ:117:SER:HB3	3:DY:192:THR:CG2	109.97	0.44
2:CZ:63:THR:CG2	3:DQ:188:LEU:HD21	84.17	0.44
2:CB:212:THR:HG23	3:DF:188:LEU:HD22	138.74	0.44
1:AM:13:THR:C	1:AM:14:GLU:HG3	2.38	0.44
3:DN:101:ARG:O	3:DN:101:ARG:HG2	2.17	0.44
2:CO:46:THR:CG2	3:DP:165:ASP:HA	48.60	0.44
3:DY:101:ARG:HG2	3:DY:101:ARG:O	2.17	0.44
3:DL:7:SER:OG	3:DL:11:SER:HB3	2.17	0.44
1:AB:146:ILE:O	1:AB:146:ILE:HG22	2.17	0.44
1:AD:146:ILE:HG22	1:AD:146:ILE:O	2.17	0.44
1:AK:101:PHE:O	1:AK:199:SER:OG	2.33	0.44
1:AL:146:ILE:HG22	1:AL:146:ILE:O	2.17	0.44
1:AN:201:ALA:O	1:AN:202:HIS:HD2	2.01	0.44
1:AQ:146:ILE:HG22	1:AQ:146:ILE:O	2.17	0.44
1:AR:143:VAL:H	3:DS:14:PHE:CB	2.28	0.44
1:BB:146:ILE:HG22	1:BB:146:ILE:O	2.18	0.44
3:DA:19:PRO:HB3	4:FE:30:TYR:CD2	2.52	0.44
3:DJ:19:PRO:HB3	4:FI:30:TYR:CD2	2.52	0.44
3:DM:7:SER:OG	3:DM:11:SER:HB3	2.17	0.44
3:DK:7:SER:OG	3:DK:11:SER:HB3	2.17	0.44
3:D4:7:SER:OG	3:D4:11:SER:HB3	2.17	0.44
1:BH:146:ILE:O	1:BH:146:ILE:HG22	2.17	0.44
1:AJ:112:PRO:HB2	3:DF:223:PRO:HB3	1.98	0.44
1:AU:112:PRO:HB2	3:DW:223:PRO:HB3	1.98	0.44
1:BI:183:THR:HA	1:BI:186:TRP:HB3	1.99	0.44
1:AX:183:THR:HA	1:AX:186:TRP:HB3	1.98	0.44
1:BE:183:THR:HA	1:BE:186:TRP:HB3	1.98	0.44
2:CH:57:THR:HG22	2:CH:58:LEU:H	1.82	0.44
1:AC:52:PRO:HD3	1:AC:115:THR:O	2.17	0.44
1:AR:103:TRP:HB2	1:AR:198:THR:HG23	1.96	0.44
2:CG:57:THR:HG22	2:CG:58:LEU:H	1.82	0.44
2:CN:125:CYS:SG	2:CN:160:HIS:HD2	2.41	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
1:AF:52:PRO:HD3	1:AF:115:THR:O	2.17	0.44
2:CJ:125:CYS:SG	2:CJ:160:HIS:HD2	2.40	0.44
2:CT:125:CYS:SG	2:CT:160:HIS:HD2	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:160:HIS:HE2	3:EA:51:TYR:HE1	185.35	0.44
2:C7:160:HIS:HE2	3:D7:51:TYR:HE1	1.64	0.44
1:A4:49:THR:HG22	1:A4:50:GLY:H	1.82	0.44
1:AQ:103:TRP:HB2	1:AQ:198:THR:HG23	1.96	0.44
1:AK:52:PRO:HD3	1:AK:115:THR:O	2.17	0.44
2:C1:156:SER:HA	2:C1:160:HIS:CD2	2.52	0.44
2:C1:125:CYS:SG	2:C1:160:HIS:HD2	2.41	0.44
2:CZ:125:CYS:SG	2:CZ:160:HIS:HD2	2.40	0.44
2:CJ:226:LEU:CD2	3:DF:126:PRO:HG2	2.36	0.44
2:CQ:152:TYR:OH	3:DQ:60:PRO:HD3	2.17	0.44
2:CU:152:TYR:OH	3:DU:60:PRO:HD3	2.17	0.44
2:CX:153:GLN:NE2	3:DX:55:SER:CB	2.80	0.44
2:CG:152:TYR:OH	3:DG:60:PRO:HD3	2.17	0.44
1:AE:170:PHE:CD2	1:AE:222:ARG:CZ	2.87	0.44
1:AO:220:CYS:HA	1:AO:221:PRO:HD2	1.82	0.44
2:CW:152:TYR:OH	3:DW:60:PRO:HD3	2.17	0.44
2:C8:13:ARG:HD3	2:C8:13:ARG:HA	1.72	0.44
2:C1:13:ARG:HD3	2:C1:13:ARG:HA	1.72	0.44
1:AH:170:PHE:CD2	1:AH:222:ARG:NH1	2.85	0.44
2:C1:152:TYR:HB3	2:C1:197:LEU:HD22	2.00	0.44
2:C8:152:TYR:HB3	2:C8:197:LEU:HD22	2.00	0.44
1:AU:220:CYS:HA	1:AU:221:PRO:HD2	1.82	0.44
1:AT:170:PHE:CD2	1:AT:222:ARG:NH1	2.85	0.44
2:CD:108:TRP:O	2:CD:218:ILE:HD12	2.17	0.44
2:CK:84:PRO:HD2	2:CK:186:LEU:CD2	2.48	0.44
2:CC:108:TRP:O	2:CC:218:ILE:HD12	2.16	0.44
2:CM:84:PRO:HD2	2:CM:186:LEU:CD2	2.48	0.44
2:CK:157:VAL:HG23	3:DK:50:THR:HG21	1.99	0.44
2:CM:157:VAL:HG23	3:DM:50:THR:HG21	1.99	0.44
2:CN:84:PRO:HD2	2:CN:186:LEU:CD2	2.48	0.44
2:CS:84:PRO:HD2	2:CS:186:LEU:CD2	2.48	0.44
1:AN:165:ARG:HG2	2:CN:180:PRO:O	2.16	0.44
2:C4:108:TRP:O	2:C4:218:ILE:HD12	2.17	0.44
2:CU:69:TRP:CZ3	2:CU:124:LEU:HD11	2.52	0.44
2:C5:84:PRO:HD2	2:C5:186:LEU:CD2	2.48	0.44
1:AU:165:ARG:HG2	2:CV:180:PRO:O	2.16	0.44
2:CE:84:PRO:HD2	2:CE:186:LEU:CD2	2.48	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
2:C3:158:PHE:O	2:C3:159:PRO:C	2.55	0.44
2:C3:157:VAL:HG23	3:D3:50:THR:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:69:TRP:CZ3	2:CY:124:LEU:HD11	2.52	0.44
2:CI:75:HIS:HA	2:CI:198:ILE:O	2.17	0.44
2:CV:54:LEU:HD21	2:CV:97:VAL:HG11	1.99	0.44
2:CM:54:LEU:HD21	2:CM:97:VAL:HG11	1.99	0.44
2:C3:54:LEU:HD21	2:C3:97:VAL:HG11	1.99	0.44
2:CD:54:LEU:HB2	2:CD:220:ALA:HB3	1.99	0.44
1:AK:43:LEU:H	1:AK:43:LEU:HD23	1.81	0.44
1:BC:43:LEU:HD23	1:BC:43:LEU:H	1.81	0.44
1:AV:43:LEU:HD23	1:AV:43:LEU:H	1.81	0.44
2:C7:54:LEU:HB2	2:C7:220:ALA:HB3	1.99	0.44
3:DH:97:PHE:HB3	3:DH:218:HIS:O	2.17	0.44
3:DA:97:PHE:HB3	3:DA:218:HIS:O	2.17	0.44
3:EE:97:PHE:CD1	3:EE:216:LEU:HD23	2.51	0.44
1:AV:109:VAL:HG22	1:AV:191:HIS:HD2	1.82	0.44
1:BA:109:VAL:HG22	1:BA:191:HIS:HD2	1.82	0.44
1:AW:109:VAL:HG22	1:AW:191:HIS:HD2	1.82	0.44
2:CN:65:LYS:CB	3:DE:135:ARG:HH21	265.02	0.44
2:CF:65:LYS:CB	3:D6:135:ARG:HH21	2.29	0.44
1:A6:109:VAL:HG22	1:A6:191:HIS:HD2	1.82	0.44
4:FT:25:PHE:HZ	4:FU:22:VAL:HG11	201.97	0.44
1:AE:225:PRO:HA	1:AE:226:PRO:HD2	1.88	0.44
2:CD:39:PRO:HB3	2:CD:176:PRO:HA	1.99	0.44
2:C1:39:PRO:HB3	2:C1:176:PRO:HA	1.99	0.44
3:DA:175:THR:OG1	3:DA:178:ASN:ND2	2.51	0.44
3:DI:175:THR:OG1	3:DI:178:ASN:ND2	2.51	0.44
3:DD:179:VAL:HG12	3:DD:181:GLY:N	2.32	0.44
3:EA:175:THR:OG1	3:EA:178:ASN:ND2	2.51	0.44
3:EA:172:ALA:O	3:EA:178:ASN:OD1	2.34	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:D4:154:PHE:CG	3:D4:155:SER:N	2.84	0.44
1:BI:55:HIS:O	1:BI:194:SER:HB2	2.18	0.44
2:CS:228:ASN:OD1	2:CX:92:GLY:HA3	237.32	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:AM:55:HIS:O	1:AM:194:SER:HB2	2.18	0.44
3:DU:154:PHE:CG	3:DU:155:SER:N	2.85	0.44
1:AS:55:HIS:O	1:AS:194:SER:HB2	2.18	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
3:D0:77:ASP:O	3:D0:79:SER:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:77:ASP:O	3:D9:79:SER:N	2.50	0.44
3:D4:77:ASP:O	3:D4:79:SER:N	2.50	0.44
1:AQ:26:VAL:HG12	1:AQ:27:HIS:N	2.32	0.44
1:AV:26:VAL:HG12	1:AV:27:HIS:N	2.32	0.44
1:AO:22:VAL:HG12	1:AO:23:ASP:N	2.33	0.44
1:AB:22:VAL:HG12	1:AB:23:ASP:N	2.33	0.44
3:DR:198:VAL:HG23	3:DR:199:ASN:H	1.82	0.44
1:AZ:22:VAL:HG12	1:AZ:23:ASP:N	2.33	0.44
3:EC:195:ASP:HB2	3:EC:198:VAL:HG22	1.98	0.44
1:BI:56:VAL:HG13	1:BI:193:GLY:O	2.17	0.44
4:F4:16:GLY:O	4:F4:18:SER:N	2.50	0.44
3:DL:134:THR:OG1	3:DL:137:GLU:HG3	2.17	0.44
3:DL:36:VAL:HA	3:DL:37:PRO:HD3	1.53	0.44
4:FY:16:GLY:O	4:FY:18:SER:N	2.50	0.44
1:AV:56:VAL:HG13	1:AV:193:GLY:O	2.17	0.44
3:DR:134:THR:OG1	3:DR:137:GLU:HG3	2.17	0.44
4:F2:16:GLY:O	4:F2:18:SER:N	2.50	0.44
2:CO:42:ARG:HA	2:CO:43:PRO:HD2	1.64	0.44
2:CM:63:THR:CG2	3:DD:188:LEU:HD21	158.01	0.44
2:CT:216:ALA:HA	2:CT:217:PRO:HD3	1.78	0.44
2:C9:63:THR:CG2	3:DL:188:LEU:HD21	84.17	0.44
2:CY:117:SER:HB3	3:DZ:192:THR:CG2	2.47	0.44
2:C3:63:THR:CG2	3:DU:188:LEU:HD21	2.47	0.44
2:CP:63:THR:CG2	3:D0:188:LEU:HD21	85.20	0.44
2:CF:117:SER:HB3	3:DV:192:THR:CG2	176.95	0.44
2:C4:63:THR:CG2	3:EC:188:LEU:HD21	2.47	0.44
1:AQ:13:THR:C	1:AQ:14:GLU:HG3	2.38	0.44
3:DZ:101:ARG:HG2	3:DZ:101:ARG:O	2.17	0.44
3:ED:101:ARG:O	3:ED:101:ARG:HG2	2.17	0.44
1:A7:13:THR:C	1:A7:14:GLU:HG3	2.38	0.44
1:AZ:13:THR:C	1:AZ:14:GLU:HG3	2.38	0.44
3:DV:7:SER:OG	3:DV:11:SER:HB3	2.17	0.44
1:AA:146:ILE:HG22	1:AA:146:ILE:O	2.17	0.44
1:AG:139:SER:HA	1:AG:140:PRO:HD3	1.62	0.44
1:AG:201:ALA:O	1:AG:202:HIS:HD2	2.01	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:201:ALA:O	1:AO:202:HIS:HD2	2.01	0.44
1:AX:143:VAL:H	3:DU:14:PHE:CB	2.28	0.44
3:D9:19:PRO:HB3	4:FD:30:TYR:CD2	187.49	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: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: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:EA:7:SER:OG	3:EA:11:SER:HB3	2.17	0.44
3:DF:19:PRO:HB3	4:FE:30:TYR:CD2	96.38	0.44
3:DO:19:PRO:HB3	4:FN:30:TYR:CD2	2.52	0.44
1:A3:146:ILE:HG22	1:A3:146:ILE:O	2.17	0.44
1:A6:121:LEU:HD21	1:A7:206:GLY:CA	2.47	0.44
1:A7:146:ILE:O	1:A7:146:ILE:HG22	2.17	0.44
3:D6:7:SER:OG	3:D6:11:SER:HB3	2.17	0.44
1:AS:183:THR:HA	1:AS:186:TRP:HB3	1.98	0.44
1:A8:183:THR:HA	1:A8:186:TRP:HB3	1.98	0.44
3:D8:19:PRO:HB3	4:F7:30:TYR:CD2	2.52	0.44
1:BA:183:THR:HA	1:BA:186:TRP:HB3	1.98	0.44
2:C1:209:VAL:N	2:C1:210:PRO:CD	2.68	0.44
2:C8:135:THR:HG23	2:C8:145:LEU:HD11	1.99	0.44
1:AL:49:THR:HG22	1:AL:50:GLY:H	1.82	0.44
1:AC:49:THR:HG22	1:AC:50:GLY:H	1.82	0.44
2:CD:57:THR:HG22	2:CD:58:LEU:H	1.82	0.44
1:BG:52:PRO:HD3	1:BG:115:THR:O	2.17	0.44
1:AZ:103:TRP:HB2	1:AZ:198:THR:HG23	1.96	0.44
2:CB:57:THR:HG22	2:CB:58:LEU:H	1.82	0.44
1:A1:52:PRO:HD3	1:A1:115:THR:O	2.17	0.44
2:CE:125:CYS:SG	2:CE:160:HIS:HD2	2.40	0.44
1:A2:49:THR:HG22	1:A2:50:GLY:H	1.82	0.44
2:CW:125:CYS:SG	2:CW:160:HIS:HD2	2.40	0.44
1:AM:49:THR:HG22	1:AM:50:GLY:H	1.82	0.44
2:CB:160:HIS:HE2	3:DB:51:TYR:HE1	1.64	0.44
2:CA:156:SER:HA	2:CA:160:HIS:CD2	2.52	0.44
2:CA:125:CYS:SG	2:CA:160:HIS:HD2	2.40	0.44
1:BA:52:PRO:HD3	1:BA:115:THR:O	2.17	0.44
2:C3:160:HIS:HE2	3:D3:51:TYR:HE1	1.64	0.44
2:CX:156:SER:HA	2:CX:160:HIS:CD2	2.52	0.44
2:CX:160:HIS:HE2	3:DX:51:TYR:HE1	1.64	0.44
1:AH:52:PRO:HD3	1:AH:115:THR:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:52:PRO:HD3	1:BC:115:THR:O	2.17	0.44
2:CV:152:TYR:HB3	2:CV:197:LEU:HD22	2.00	0.44
2:CX:153:GLN:NE2	3:EE:55:SER:CB	193.35	0.44
1:AE:170:PHE:CD2	1:AE:222:ARG:NH1	2.85	0.44
2:C3:152:TYR:OH	3:D3:60:PRO:HD3	2.17	0.44
2:CW:153:GLN:NE2	3:ED:55:SER:CB	254.02	0.44
2:CK:152:TYR:OH	3:DK:60:PRO:HD3	2.17	0.44
1:AF:220:CYS:HA	1:AF:221:PRO:HD2	1.82	0.44
2:CO:153:GLN:NE2	3:DO:55:SER:CB	2.80	0.44
1:A5:170:PHE:CD2	1:A5:222:ARG:NH1	2.85	0.44
2:CD:152:TYR:HB3	2:CD:197:LEU:HD22	2.00	0.44
1:AZ:170:PHE:CD2	1:AZ:222:ARG:NH1	2.85	0.44
2:C0:152:TYR:OH	3:D0:60:PRO:HD3	2.17	0.44
2:CT:84:PRO:HD2	2:CT:186:LEU:CD2	2.48	0.44
2:CF:84:PRO:HD2	2:CF:186:LEU:CD2	2.48	0.44
2:CP:84:PRO:HD2	2:CP:186:LEU:CD2	2.48	0.44
2:CJ:157:VAL:HG23	3:DJ:50:THR:HG21	1.99	0.44
2:C1:158:PHE:O	2:C1:159:PRO:C	2.55	0.44
1:AV:181:LYS:O	1:AV:182:ALA:CB	2.66	0.44
2:CV:84:PRO:HD2	2:CV:186:LEU:CD2	2.48	0.44
2:CW:84:PRO:HD2	2:CW:186:LEU:CD2	2.48	0.44
2:CA:69:TRP:CZ3	2:CA:124:LEU:HD11	2.52	0.44
2:C1:135:THR:HG23	2:C1:145:LEU:HD11	1.98	0.44
2:CR:69:TRP:CZ3	2:CR:124:LEU:HD11	2.52	0.44
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:C1:69:TRP:CZ3	2:C1:124:LEU:HD11	2.52	0.44
3:DH:75:GLN:NE2	3:DH:184:GLN:OE1	2.49	0.44
2:C3:75:HIS:HA	2:C3:198:ILE:O	2.17	0.44
2:C3:69:TRP:CZ3	2:C3:124:LEU:HD11	2.52	0.44
2:C7:69:TRP:CZ3	2:C7:124:LEU:HD11	2.52	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:C9:69:TRP:CZ3	2:C9:124:LEU:HD11	2.52	0.44
1:AT:181:LYS:O	1:AT:182:ALA:CB	2.66	0.44
2:CM:69:TRP:CZ3	2:CM:124:LEU:HD11	2.52	0.44
2:CS:75:HIS:HA	2:CS:198:ILE:O	2.17	0.44
1:AX:181:LYS:O	1:AX:182:ALA:CB	2.66	0.44
2:CB:69:TRP:CZ3	2:CB:124:LEU:HD11	2.52	0.44
3:DB:75:GLN:NE2	3:DB:184:GLN:OE1	2.49	0.44
2:CH:54:LEU:HD21	2:CH:97:VAL:HG11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:54:LEU:HB2	2:CF:220:ALA:HB3	1.99	0.44
2:CF:54:LEU:HD21	2:CF:97:VAL:HG11	1.99	0.44
3:DZ:97:PHE:HB3	3:DZ:218:HIS:O	2.17	0.44
3:DE:97:PHE:HB3	3:DE:218:HIS:O	2.17	0.44
4:FU:25:PHE:HZ	4:FV:22:VAL:HG11	1.81	0.44
2:CA:39:PRO:HB3	2:CA:176:PRO:HA	1.99	0.44
2:CR:39:PRO:HB3	2:CR:176:PRO:HA	2.00	0.44
2:CC:129:VAL:HA	2:CC:130:PRO:HD3	1.78	0.44
2:C7:39:PRO:HB3	2:C7:176:PRO:HA	1.99	0.44
3:DB:179:VAL:HG12	3:DB:181:GLY:N	2.32	0.44
3:D2:179:VAL:HG12	3:D2:181:GLY:N	2.33	0.44
3:DJ:175:THR:OG1	3:DJ:178:ASN:ND2	2.51	0.44
3:DO:175:THR:OG1	3:DO:178:ASN:ND2	2.51	0.44
3:D4:175:THR:OG1	3:D4:178:ASN:ND2	2.51	0.44
3:D4:172:ALA:O	3:D4:178:ASN:OD1	2.35	0.44
3:EA:179:VAL:HG12	3:EA:181:GLY:N	2.32	0.44
3:DI:179:VAL:HG12	3:DI:181:GLY:N	2.32	0.44
3:DW:175:THR:OG1	3:DW:178:ASN:ND2	2.51	0.44
3:DW:172:ALA:O	3:DW:178:ASN:OD1	2.34	0.44
3:D7:175:THR:OG1	3:D7:178:ASN:ND2	2.51	0.44
3:DT:172:ALA:O	3:DT:178:ASN:OD1	2.34	0.44
1:AL:55:HIS:O	1:AL:194:SER:HB2	2.18	0.44
1:AJ:55:HIS:O	1:AJ:194:SER:HB2	2.18	0.44
1:A1:107:PHE:HB2	1:A1:194:SER:OG	2.17	0.44
1:AR:109:VAL:HG22	1:AR:191:HIS:HD2	1.82	0.44
3:DH:77:ASP:O	3:DH:79:SER:N	2.50	0.44
3:D3:77:ASP:O	3:D3:79:SER:N	2.50	0.44
1:AZ:26:VAL:HG12	1:AZ:27:HIS:N	2.32	0.44
1:AM:26:VAL:HG12	1:AM:27:HIS:N	2.32	0.44
1:AL:26:VAL:HG12	1:AL:27:HIS:N	2.32	0.44
1:AN:22:VAL:HG12	1:AN:23:ASP:N	2.33	0.44
1:AT:201:ALA:O	1:AT:202:HIS:HD2	2.01	0.44
1:BB:22:VAL:HG12	1:BB:23:ASP:N	2.33	0.44
1:AA:201:ALA:O	1:AA:202:HIS:CD2	2.71	0.44
1:A1:22:VAL:HG12	1:A1:23:ASP:N	2.33	0.44
3:DT:84:GLU:H	3:DT:84:GLU:CD	2.20	0.44
3:DT:198:VAL:HG23	3:DT:199:ASN:H	1.82	0.44
3:D2:198:VAL:HG23	3:D2:199:ASN:H	1.82	0.44
3:D0:195:ASP:HB2	3:D0:198:VAL:HG22	1.98	0.44
1:BA:201:ALA:O	1:BA:202:HIS:HD2	2.01	0.44
1:AW:201:ALA:O	1:AW:202:HIS:HD2	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D1:195:ASP:HB2	3:D1:198:VAL:HG22	1.98	0.44
3:DX:198:VAL:HG23	3:DX:199:ASN:H	1.82	0.44
4:F3:16:GLY:O	4:F3:18:SER:N	2.50	0.44
1:A0:56:VAL:HG13	1:A0:193:GLY:O	2.17	0.44
3:EC:134:THR:OG1	3:EC:137:GLU:HG3	2.17	0.44
4:FK:16:GLY:O	4:FK:18:SER:N	2.50	0.44
2:C2:34:TYR:HA	2:C2:174:VAL:O	2.18	0.44
3:DK:36:VAL:HA	3:DK:37:PRO:HD3	1.53	0.44
3:D5:85:LEU:O	3:D5:91:ALA:CB	2.64	0.44
1:A0:56:VAL:HG13	1:A0:193:GLY:O	2.17	0.44
2:CX:34:TYR:HA	2:CX:174:VAL:O	2.18	0.44
2:CM:34:TYR:HA	2:CM:174:VAL:O	2.18	0.44
1:A7:56:VAL:HG13	1:A7:193:GLY:O	2.17	0.44
2:CR:116:ALA:N	3:EE:119:LYS:NZ	2.66	0.44
2:CV:63:THR:CG2	3:DB:188:LEU:HD21	2.47	0.44
2:C2:63:THR:CG2	3:DH:188:LEU:HD21	253.11	0.44
2:CU:63:THR:CG2	3:D5:188:LEU:HD21	253.11	0.44
2:CG:212:THR:HG23	3:D3:188:LEU:HD22	255.93	0.44
2:CA:116:ALA:N	3:DW:119:LYS:NZ	2.66	0.44
2:C6:116:ALA:N	3:DE:119:LYS:NZ	2.66	0.44
2:CE:63:THR:CG2	3:DF:188:LEU:HD21	2.47	0.44
1:AN:13:THR:C	1:AN:14:GLU:HG3	2.38	0.44
1:AS:13:THR:C	1:AS:14:GLU:HG3	2.38	0.44
3:DP:101:ARG:HG2	3:DP:101:ARG:O	2.17	0.44
2:CP:49:ASP:HA	2:CP:50:PRO:HD2	1.80	0.44
3:DQ:101:ARG:O	3:DQ:101:ARG:HG2	2.17	0.44
1:BG:13:THR:C	1:BG:14:GLU:HG3	2.38	0.44
3:DR:103:SER:HB3	3:DR:159:PRO:CA	2.35	0.44
3:D0:103:SER:HB3	3:D0:159:PRO:CA	2.35	0.44
1:A8:201:ALA:O	1:A8:202:HIS:CD2	2.71	0.44
1:A9:201:ALA:O	1:A9:202:HIS:HD2	2.01	0.44
1:AC:146:ILE:HD13	1:AC:146:ILE:HG21	1.74	0.44
1:AF:201:ALA:O	1:AF:202:HIS:CD2	2.71	0.44
1:AF:38:PHE:CD1	1:AJ:137:GLY:HA2	2.48	0.44
1:AJ:201:ALA:O	1:AJ:202:HIS:HD2	2.01	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:AV:139:SER:HA	1:AV:140:PRO:HD3	1.62	0.44
1:BE:201:ALA:O	1:BE:202:HIS:HD2	2.01	0.44
3:DJ:7:SER:OG	3:DJ:11:SER:HB3	2.17	0.44
3:DC:19:PRO:HB3	4:FB:30:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DT:19:PRO:HB3	4:FS:30:TYR:CD2	2.52	0.44
1:AZ:201:ALA:O	1:AZ:202:HIS:HD2	2.01	0.44
1:AG:181:LYS:O	1:AG:182:ALA:CB	2.66	0.44
1:AF:181:LYS:O	1:AF:182:ALA:CB	2.66	0.44
1:AN:181:LYS:O	1:AN:182:ALA:CB	2.66	0.44
1:AB:49:THR:HG22	1:AB:50:GLY:H	1.82	0.44
2:CW:58:LEU:HB3	2:CW:59:SER:H	1.65	0.44
1:AD:49:THR:HG22	1:AD:50:GLY:H	1.82	0.44
2:C5:57:THR:HG22	2:C5:58:LEU:H	1.82	0.44
1:AW:181:LYS:O	1:AW:182:ALA:CB	2.66	0.44
1:AE:52:PRO:HD3	1:AE:115:THR:O	2.17	0.44
2:CI:57:THR:HG22	2:CI:58:LEU:H	1.82	0.44
2:CW:156:SER:HA	2:CW:160:HIS:CD2	2.52	0.44
2:CR:125:CYS:SG	2:CR:160:HIS:HD2	2.40	0.44
2:CM:152:TYR:OH	3:DM:60:PRO:HD3	2.17	0.44
2:CF:153:GLN:NE2	3:DF:55:SER:CB	2.80	0.44
2:CP:13:ARG:HD3	2:CP:13:ARG:HA	1.72	0.44
1:A9:170:PHE:CD2	1:A9:222:ARG:NH1	2.85	0.44
2:CE:152:TYR:HB3	2:CE:197:LEU:HD22	2.00	0.44
2:CR:152:TYR:HB3	2:CR:197:LEU:HD22	2.00	0.44
2:CZ:153:GLN:NE2	3:DZ:55:SER:CB	2.80	0.44
2:C4:152:TYR:OH	3:D4:60:PRO:HD3	2.17	0.44
1:AF:170:PHE:CD2	1:AF:222:ARG:NH1	2.85	0.44
2:C1:153:GLN:NE2	3:D1:55:SER:CB	2.80	0.44
1:BC:170:PHE:CD2	1:BC:222:ARG:NH1	2.85	0.44
1:AY:170:PHE:CD2	1:AY:222:ARG:NH1	2.85	0.44
2:C2:152:TYR:HB3	2:C2:197:LEU:HD22	2.00	0.44
1:AS:220:CYS:HA	1:AS:221:PRO:HD2	1.82	0.44
2:CU:84:PRO:HD2	2:CU:186:LEU:CD2	2.48	0.44
2:C6:83:LEU:HA	2:C6:84:PRO:HA	1.60	0.44
2:CJ:158:PHE:O	2:CJ:159:PRO:C	2.55	0.44
2:CI:84:PRO:HD2	2:CI:186:LEU:CD2	2.48	0.44
2:CI:180:PRO:HD2	2:CI:189:HIS:HE1	1.77	0.44
2:C9:180:PRO:HD2	2:C9:189:HIS:HE1	1.77	0.44
2:C5:158:PHE:O	2:C5:159:PRO:C	2.55	0.44
2:CK:78:ALA:HB1	2:CK:195:VAL:HG12	1.99	0.44
2:CZ:75:HIS:HA	2:CZ:198:ILE:O	2.17	0.44
2:CZ:180:PRO:HD2	2:CZ:189:HIS:HE1	1.76	0.44
1:AS:165:ARG:HG2	2:CT:180:PRO:O	2.16	0.44
2:C6:75:HIS:HA	2:C6:198:ILE:O	2.17	0.44
2:C6:69:TRP:CZ3	2:C6:124:LEU:HD11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:158:PHE:O	2:C4:159:PRO:C	2.55	0.44
2:C7:75:HIS:HA	2:C7:198:ILE:O	2.17	0.44
2:CC:69:TRP:CZ3	2:CC:124:LEU:HD11	2.52	0.44
1:BF:181:LYS:O	1:BF:182:ALA:CB	2.66	0.44
1:BC:181:LYS:O	1:BC:182:ALA:CB	2.66	0.44
2:CI:78:ALA:HB1	2:CI:195:VAL:HG12	1.99	0.44
1:AZ:62:SER:HB2	1:AZ:73:ASN:ND2	2.27	0.44
1:A7:62:SER:HB2	1:A7:73:ASN:ND2	2.27	0.44
2:C1:54:LEU:HD21	2:C1:97:VAL:HG11	1.99	0.44
2:CN:54:LEU:HD21	2:CN:97:VAL:HG11	1.99	0.44
3:DN:97:PHE:HB3	3:DN:218:HIS:O	2.17	0.44
3:DD:97:PHE:HB3	3:DD:218:HIS:O	2.17	0.44
3:DT:97:PHE:HB3	3:DT:218:HIS:O	2.17	0.44
1:AD:109:VAL:HG22	1:AD:191:HIS:HD2	1.82	0.44
2:C7:65:LYS:CB	3:DM:135:ARG:HH21	154.28	0.44
4:FU:22:VAL:HG11	4:FY:25:PHE:HZ	1.81	0.44
1:BI:224:ILE:HA	1:BI:225:PRO:HD2	1.86	0.44
2:CQ:39:PRO:HB3	2:CQ:176:PRO:HA	1.99	0.44
2:CB:39:PRO:HB3	2:CB:176:PRO:HA	1.99	0.44
2:CO:39:PRO:HB3	2:CO:176:PRO:HA	1.99	0.44
2:CL:36:TYR:CE2	2:CL:130:PRO:CG	2.98	0.44
3:DM:179:VAL:HG12	3:DM:181:GLY:N	2.33	0.44
3:DS:175:THR:OG1	3:DS:178:ASN:ND2	2.51	0.44
3:D3:172:ALA:O	3:D3:178:ASN:OD1	2.35	0.44
1:A6:55:HIS:O	1:A6:194:SER:HB2	2.17	0.44
2:CC:92:GLY:HA3	2:CM:228:ASN:OD1	160.04	0.44
1:AN:55:HIS:O	1:AN:194:SER:HB2	2.17	0.44
1:AY:55:HIS:O	1:AY:194:SER:HB2	2.18	0.44
3:D1:77:ASP:O	3:D1:79:SER:N	2.50	0.44
1:AD:26:VAL:HG12	1:AD:27:HIS:N	2.32	0.44
1:A8:26:VAL:HG12	1:A8:27:HIS:N	2.32	0.44
1:AY:26:VAL:HG12	1:AY:27:HIS:N	2.32	0.44
3:DF:84:GLU:CD	3:DF:84:GLU:H	2.21	0.44
1:AT:201:ALA:O	1:AT:202:HIS:CD2	2.71	0.44
1:AH:201:ALA:O	1:AH:202:HIS:HD2	2.01	0.44
1:BG:22:VAL:HG12	1:BG:23:ASP:N	2.33	0.44
1:AY:201:ALA:O	1:AY:202:HIS:CD2	2.71	0.44
1:A4:201:ALA:O	1:A4:202:HIS:HD2	2.01	0.44
1:BG:201:ALA:O	1:BG:202:HIS:CD2	2.71	0.44
1:AM:201:ALA:O	1:AM:202:HIS:CD2	2.71	0.44
3:DG:198:VAL:HG23	3:DG:199:ASN:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:198:VAL:HG23	3:DC:199:ASN:H	1.82	0.44
1:BF:201:ALA:O	1:BF:202:HIS:HD2	2.01	0.44
3:DY:198:VAL:HG23	3:DY:199:ASN:H	1.82	0.44
2:CQ:34:TYR:HA	2:CQ:174:VAL:O	2.18	0.44
2:CA:34:TYR:HA	2:CA:174:VAL:O	2.18	0.44
3:DC:134:THR:OG1	3:DC:137:GLU:HG3	2.17	0.44
2:C7:42:ARG:HA	2:C7:43:PRO:HD2	1.64	0.44
1:AT:56:VAL:HG13	1:AT:193:GLY:O	2.17	0.44
2:CJ:34:TYR:HA	2:CJ:174:VAL:O	2.18	0.44
2:CK:34:TYR:HA	2:CK:174:VAL:O	2.18	0.44
1:BB:56:VAL:HG13	1:BB:193:GLY:O	2.17	0.44
3:DE:134:THR:OG1	3:DE:137:GLU:HG3	2.17	0.44
1:A2:56:VAL:HG13	1:A2:193:GLY:O	2.17	0.44
3:D4:134:THR:OG1	3:D4:137:GLU:HG3	2.17	0.44
2:CD:34:TYR:HA	2:CD:174:VAL:O	2.18	0.44
3:DX:134:THR:OG1	3:DX:137:GLU:HG3	2.17	0.44
2:CV:34:TYR:HA	2:CV:174:VAL:O	2.18	0.44
1:AB:234:LYS:HD3	1:AB:234:LYS:HA	1.89	0.44
2:CN:34:TYR:HA	2:CN:174:VAL:O	2.18	0.44
4:F9:16:GLY:O	4:F9:18:SER:N	2.50	0.44
3:D7:134:THR:OG1	3:D7:137:GLU:HG3	2.17	0.44
3:DY:134:THR:OG1	3:DY:137:GLU:HG3	2.17	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:CV:116:ALA:N	3:DB:119:LYS:NZ	2.66	0.44
2:CR:212:THR:HG23	3:DI:188:LEU:HD22	159.11	0.44
2:CX:63:THR:CG2	3:DR:188:LEU:HD21	146.49	0.44
2:CX:116:ALA:N	3:DO:119:LYS:NZ	216.56	0.44
2:CE:116:ALA:N	3:DC:119:LYS:NZ	151.92	0.44
2:CB:116:ALA:N	3:DF:119:LYS:NZ	145.31	0.44
2:CP:116:ALA:N	3:D0:119:LYS:NZ	92.71	0.44
1:A9:13:THR:C	1:A9:14:GLU:HG3	2.38	0.44
1:AI:13:THR:C	1:AI:14:GLU:HG3	2.38	0.44
2:CO:46:THR:CG2	3:DK:165:ASP:HA	2.38	0.44
3:DS:101:ARG:O	3:DS:101:ARG:HG2	2.17	0.44
1:BB:13:THR:C	1:BB:14:GLU:HG3	2.38	0.44
1:BE:13:THR:C	1:BE:14:GLU:HG3	2.38	0.44
1:BH:13:THR:C	1:BH:14:GLU:HG3	2.37	0.44
1:A9:146:ILE:O	1:A9:146:ILE:HG22	2.17	0.44
1:AC:201:ALA:O	1:AC:202:HIS:CD2	2.71	0.44
1:AC:201:ALA:O	1:AC:202:HIS:HD2	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:121:LEU:HD21	1:AE:206:GLY:CA	2.47	0.44
1:AJ:201:ALA:O	1:AJ:202:HIS:CD2	2.71	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: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:AT:146:ILE:HG22	1:AT:146:ILE:O	2.17	0.44
3:D9:7:SER:OG	3:D9:11:SER:HB3	2.17	0.44
3:DQ:19:PRO:HB3	4:FP:30:TYR:CD2	2.52	0.44
3:DF:7:SER:OG	3:DF:11:SER:HB3	2.17	0.44
1:A3:101:PHE:CD2	1:A3:143:VAL:HG11	2.44	0.44
1:AI:112:PRO:HB2	3:DJ:223:PRO:HB3	1.98	0.44
1:A0:206:GLY:CA	1:AZ:121:LEU:HD21	2.47	0.44
1:AZ:143:VAL:H	3:D1:14:PHE:CB	2.28	0.44
3:DZ:19:PRO:HB3	4:F3:30:TYR:CD2	2.52	0.44
1:AY:146:ILE:O	1:AY:146:ILE:HG22	2.17	0.44
1:BG:174:TRP:HB2	2:CV:188:LEU:CD2	260.33	0.44
1:AC:181:LYS:O	1:AC:182:ALA:CB	2.66	0.44
2:CI:140:LEU:HD22	2:CI:190:ASN:CG	2.38	0.44
2:CO:135:THR:HG23	2:CO:145:LEU:HD11	1.99	0.44
2:CO:140:LEU:HD22	2:CO:190:ASN:CG	2.38	0.44
1:AL:181:LYS:O	1:AL:182:ALA:CB	2.66	0.44
2:CH:140:LEU:HD22	2:CH:190:ASN:CG	2.39	0.44
2:CJ:135:THR:HG23	2:CJ:145:LEU:HD11	1.99	0.44
1:A7:181:LYS:O	1:A7:182:ALA:CB	2.66	0.44
2:C4:134:HIS:HB3	2:C4:135:THR:H	1.47	0.44
1:BE:52:PRO:HD3	1:BE:115:THR:O	2.17	0.44
1:AZ:52:PRO:HD3	1:AZ:115:THR:O	2.17	0.44
2:C1:57:THR:HG22	2:C1:58:LEU:H	1.82	0.44
2:CN:156:SER:HA	2:CN:160:HIS:CD2	2.52	0.44
2:C2:57:THR:HG22	2:C2:58:LEU:H	1.82	0.44
2:CJ:160:HIS:HE2	3:DJ:51:TYR:HE1	1.64	0.44
2:CF:125:CYS:SG	2:CF:160:HIS:HD2	2.40	0.44
1:BA:181:LYS:O	1:BA:182:ALA:CB	2.66	0.44
1:A4:52:PRO:HD3	1:A4:115:THR:O	2.17	0.44
1:AY:49:THR:HG22	1:AY:50:GLY:H	1.82	0.44
1:AQ:52:PRO:HD3	1:AQ:115:THR:O	2.17	0.44
2:C0:125:CYS:SG	2:C0:160:HIS:HD2	2.40	0.44
2:C5:156:SER:HA	2:C5:160:HIS:CD2	2.52	0.44
2:CY:152:TYR:HB3	2:CY:197:LEU:HD22	2.00	0.44
2:CU:152:TYR:HB3	2:CU:197:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:152:TYR:OH	3:DX:60:PRO:HD3	2.17	0.44
2:CO:152:TYR:OH	3:DO:60:PRO:HD3	2.17	0.44
2:C7:152:TYR:HB3	2:C7:197:LEU:HD22	2.00	0.44
1:A8:30:VAL:HG13	1:A8:218:MET:HE2	1.99	0.44
1:A8:170:PHE:CD2	1:A8:222:ARG:NH1	2.85	0.44
2:CF:25:ASN:O	2:CF:26:SER:HB3	2.18	0.44
1:A3:170:PHE:CD2	1:A3:222:ARG:NH1	2.85	0.44
2:C0:153:GLN:NE2	3:D0:55:SER:CB	2.80	0.44
2:CL:84:PRO:HD2	2:CL:186:LEU:CD2	2.48	0.44
2:CK:158:PHE:O	2:CK:159:PRO:C	2.55	0.44
2:CX:157:VAL:HG23	3:EE:50:THR:HG21	172.56	0.44
2:CW:157:VAL:HG23	3:ED:50:THR:HG21	226.99	0.44
2:CQ:158:PHE:O	2:CQ:159:PRO:C	2.55	0.44
1:AB:219:TYR:HD2	3:DB:39:ARG:HB2	1.79	0.44
2:C5:157:VAL:HG23	3:D5:50:THR:HG21	1.99	0.44
2:C4:84:PRO:HD2	2:C4:186:LEU:CD2	2.48	0.44
2:C2:134:HIS:HB3	2:C2:135:THR:H	1.46	0.44
2:C4:78:ALA:HB1	2:C4:195:VAL:HG12	1.99	0.44
1:BC:62:SER:HB2	1:BC:73:ASN:ND2	2.27	0.44
2:C6:157:VAL:HG23	3:D6:50:THR:HG21	1.99	0.44
2:C7:78:ALA:HB1	2:C7:195:VAL:HG12	1.99	0.44
2:C2:158:PHE:O	2:C2:159:PRO:C	2.55	0.44
2:C6:180:PRO:HD2	2:C6:189:HIS:HE1	1.77	0.44
2:CM:78:ALA:HB1	2:CM:195:VAL:HG12	1.99	0.44
2:CB:78:ALA:HB1	2:CB:195:VAL:HG12	1.99	0.44
2:CW:54:LEU:HB2	2:CW:220:ALA:HB3	1.99	0.44
2:CX:54:LEU:HD21	2:CX:97:VAL:HG11	1.99	0.44
2:C9:54:LEU:HB2	2:C9:220:ALA:HB3	1.99	0.44
2:C3:54:LEU:HB2	2:C3:220:ALA:HB3	1.99	0.44
2:CJ:54:LEU:HB2	2:CJ:220:ALA:HB3	1.99	0.44
1:AJ:109:VAL:HG22	1:AJ:191:HIS:HD2	1.82	0.44
1:BI:109:VAL:HG22	1:BI:191:HIS:HD2	1.82	0.44
2:CL:65:LYS:CB	3:D8:135:ARG:HH21	125.22	0.44
2:CX:65:LYS:CB	3:DR:135:ARG:HH21	154.28	0.44
2:C3:39:PRO:HB3	2:C3:176:PRO:HA	1.99	0.44
2:CZ:36:TYR:CE2	2:CZ:130:PRO:CG	2.98	0.44
2:CJ:36:TYR:CE2	2:CJ:130:PRO:CG	2.98	0.44
2:CY:39:PRO:HB3	2:CY:176:PRO:HA	1.99	0.44
3:DF:175:THR:OG1	3:DF:178:ASN:ND2	2.51	0.44
3:DH:175:THR:OG1	3:DH:178:ASN:ND2	2.51	0.44
3:DC:175:THR:OG1	3:DC:178:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DE:175:THR:OG1	3:DE:178:ASN:ND2	2.51	0.44
3:DG:175:THR:OG1	3:DG:178:ASN:ND2	2.51	0.44
3:DK:175:THR:OG1	3:DK:178:ASN:ND2	2.51	0.44
3:DM:175:THR:OG1	3:DM:178:ASN:ND2	2.51	0.44
3:DC:179:VAL:HG12	3:DC:181:GLY:N	2.32	0.44
3:DP:175:THR:OG1	3:DP:178:ASN:ND2	2.51	0.44
3:DQ:175:THR:HG1	3:DQ:178:ASN:ND2	2.16	0.44
1:A4:55:HIS:O	1:A4:194:SER:HB2	2.18	0.44
1:AG:55:HIS:O	1:AG:194:SER:HB2	2.17	0.44
1:BA:55:HIS:O	1:BA:194:SER:HB2	2.18	0.44
1:A9:55:HIS:O	1:A9:194:SER:HB2	2.18	0.44
3:EA:77:ASP:O	3:EA:79:SER:N	2.50	0.44
3:DU:77:ASP:O	3:DU:79:SER:N	2.50	0.44
1:AS:26:VAL:HG12	1:AS:27:HIS:N	2.32	0.44
1:A7:26:VAL:HG12	1:A7:27:HIS:N	2.32	0.44
1:A5:26:VAL:HG12	1:A5:27:HIS:N	2.32	0.44
1:AG:22:VAL:HG12	1:AG:23:ASP:N	2.32	0.44
1:AF:22:VAL:HG12	1:AF:23:ASP:N	2.33	0.44
3:D8:84:GLU:CD	3:D8:84:GLU:H	2.21	0.44
1:AU:26:VAL:HG12	1:AU:27:HIS:N	2.32	0.44
3:DW:198:VAL:HG23	3:DW:199:ASN:H	1.82	0.44
3:DF:198:VAL:HG23	3:DF:199:ASN:H	1.82	0.44
3:DM:198:VAL:HG23	3:DM:199:ASN:H	1.82	0.44
1:A5:201:ALA:O	1:A5:202:HIS:CD2	2.71	0.44
1:AQ:201:ALA:O	1:AQ:202:HIS:CD2	2.71	0.44
1:BD:201:ALA:O	1:BD:202:HIS:HD2	2.01	0.44
1:BD:92:THR:HB	1:BD:93:THR:H	1.62	0.44
2:CT:34:TYR:HA	2:CT:174:VAL:O	2.18	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:DW:134:THR:OG1	3:DW:137:GLU:HG3	2.17	0.44
2:CT:42:ARG:HA	2:CT:43:PRO:HD2	1.64	0.44
1:AP:56:VAL:HG13	1:AP:193:GLY:O	2.17	0.44
3:D5:134:THR:OG1	3:D5:137:GLU:HG3	2.17	0.44
4:FL:16:GLY:O	4:FL:18:SER:N	2.50	0.44
2:CE:34:TYR:HA	2:CE:174:VAL:O	2.18	0.44
3:DP:134:THR:OG1	3:DP:137:GLU:HG3	2.17	0.44
2:CI:116:ALA:N	3:DX:119:LYS:NZ	2.66	0.44
2:CW:116:ALA:N	3:DJ:119:LYS:NZ	2.66	0.44
2:CH:116:ALA:N	3:DS:119:LYS:NZ	159.95	0.44
2:C7:116:ALA:N	3:DM:119:LYS:NZ	156.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:216:ALA:HA	2:CV:217:PRO:HD3	1.78	0.44
2:CK:116:ALA:N	3:DA:119:LYS:NZ	272.60	0.44
2:CM:116:ALA:N	3:DI:119:LYS:NZ	258.53	0.44
2:CT:116:ALA:N	3:DK:119:LYS:NZ	2.66	0.44
2:CD:116:ALA:N	3:D4:119:LYS:NZ	151.32	0.44
2:CD:212:THR:HG23	3:D4:188:LEU:HD22	143.39	0.44
2:CX:212:THR:HG23	3:DO:188:LEU:HD22	207.83	0.44
2:CO:63:THR:CG2	3:DP:188:LEU:HD21	2.47	0.44
2:C0:116:ALA:N	3:DQ:119:LYS:NZ	2.66	0.44
2:CZ:116:ALA:N	3:DQ:119:LYS:NZ	91.02	0.44
2:CY:116:ALA:N	3:DZ:119:LYS:NZ	2.66	0.44
2:CB:116:ALA:N	3:DT:119:LYS:NZ	258.53	0.44
2:CP:116:ALA:N	3:D1:119:LYS:NZ	2.66	0.44
3:D5:103:SER:HB3	3:D5:159:PRO:CA	2.35	0.44
1:AX:13:THR:C	1:AX:14:GLU:HG3	2.38	0.44
3:D7:101:ARG:O	3:D7:101:ARG:HG2	2.17	0.44
2:C7:49:ASP:HA	2:C7:50:PRO:HD2	1.80	0.44
1:A8:87:GLN:O	1:A8:88:PHE:CB	2.62	0.44
1:AB:146:ILE:HD13	1:AB:146:ILE:HG21	1.74	0.44
1:AC:121:LEU:HD21	1:AD:206:GLY:CA	2.47	0.44
1:AD:201:ALA:O	1:AD:202:HIS:CD2	2.71	0.44
1:AN:201:ALA:O	1:AN:202:HIS:CD2	2.71	0.44
1:AR:201:ALA:O	1:AR:202:HIS:HD2	2.01	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
3:DM:19:PRO:HB3	4:FL:30:TYR:CD2	2.52	0.44
3:DY:19:PRO:HB3	4:FX:30:TYR:CD2	2.52	0.44
3:EB:7:SER:OG	3:EB:11:SER:HB3	2.17	0.44
1:A0:146:ILE:O	1:A0:146:ILE:HG22	2.17	0.44
1:A0:201:ALA:O	1:A0:202:HIS:HD2	2.01	0.44
1:AZ:201:ALA:O	1:AZ:202:HIS:CD2	2.71	0.44
3:D1:8:VAL:CG1	3:D1:9:PRO:HD2	2.39	0.44
1:AG:164:TRP:HE1	1:AG:187:LEU:CD1	2.28	0.44
2:CI:209:VAL:O	2:CI:209:VAL:CG1	2.65	0.44
1:AA:181:LYS:O	1:AA:182:ALA:CB	2.66	0.44
1:AK:181:LYS:O	1:AK:182:ALA:CB	2.66	0.44
1:AM:181:LYS:O	1:AM:182:ALA:CB	2.66	0.44
2:CA:140:LEU:HD22	2:CA:190:ASN:CG	2.38	0.44
2:CS:135:THR:HG23	2:CS:145:LEU:HD11	1.99	0.44
1:BF:49:THR:HG22	1:BF:50:GLY:H	1.82	0.44
1:A3:49:THR:HG22	1:A3:50:GLY:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:140:LEU:HD22	2:CX:190:ASN:CG	2.38	0.44
2:CK:57:THR:HG22	2:CK:58:LEU:H	1.82	0.44
1:AX:49:THR:HG22	1:AX:50:GLY:H	1.82	0.44
2:CP:57:THR:HG22	2:CP:58:LEU:H	1.82	0.44
2:CV:156:SER:HA	2:CV:160:HIS:CD2	2.52	0.44
2:C3:125:CYS:SG	2:C3:160:HIS:HD2	2.40	0.44
1:AS:52:PRO:HD3	1:AS:115:THR:O	2.17	0.44
2:CS:125:CYS:SG	2:CS:160:HIS:HD2	2.40	0.44
2:C3:57:THR:HG22	2:C3:58:LEU:H	1.82	0.44
1:AH:115:THR:HG23	1:AH:133:LEU:N	2.25	0.44
2:CQ:152:TYR:HB3	2:CQ:197:LEU:HD22	2.00	0.44
2:CQ:153:GLN:NE2	3:DQ:55:SER:CB	2.80	0.44
2:CL:152:TYR:OH	3:DL:60:PRO:HD3	2.17	0.44
1:AO:170:PHE:CD2	1:AO:222:ARG:NH1	2.85	0.44
2:C3:152:TYR:HB3	2:C3:197:LEU:HD22	2.00	0.44
2:C9:152:TYR:OH	3:D9:60:PRO:HD3	2.17	0.44
2:CW:152:TYR:HB3	2:CW:197:LEU:HD22	2.00	0.44
2:C4:152:TYR:HB3	2:C4:197:LEU:HD22	2.00	0.44
2:CQ:25:ASN:O	2:CQ:26:SER:HB3	2.18	0.44
2:CS:25:ASN:O	2:CS:26:SER:HB3	2.18	0.44
2:C6:152:TYR:OH	3:D6:60:PRO:HD3	2.17	0.44
1:BE:170:PHE:CD2	1:BE:222:ARG:NH1	2.85	0.44
1:A2:170:PHE:CD2	1:A2:222:ARG:NH1	2.85	0.44
2:C3:25:ASN:O	2:C3:26:SER:HB3	2.18	0.44
2:CD:84:PRO:HD2	2:CD:186:LEU:CD2	2.48	0.44
2:CI:157:VAL:HG23	3:DI:50:THR:HG21	1.99	0.44
2:CS:157:VAL:HG23	3:DS:50:THR:HG21	1.99	0.44
2:CD:157:VAL:HG23	3:DD:50:THR:HG21	1.99	0.44
2:CG:84:PRO:HD2	2:CG:186:LEU:CD2	2.48	0.44
2:CO:84:PRO:HD2	2:CO:186:LEU:CD2	2.48	0.44
2:CW:140:LEU:HD22	2:CW:190:ASN:CG	2.38	0.44
2:CX:158:PHE:O	2:CX:159:PRO:C	2.55	0.44
2:CW:83:LEU:HA	2:CW:84:PRO:HA	1.59	0.44
2:C1:140:LEU:HD22	2:C1:190:ASN:CG	2.38	0.44
3:D4:56:ILE:CG1	3:D4:74:PHE:CE1	2.98	0.44
1:A1:62:SER:HB2	1:A1:73:ASN:ND2	2.27	0.44
2:CH:84:PRO:HD2	2:CH:186:LEU:CD2	2.48	0.44
1:AD:62:SER:O	1:AD:63:THR:CB	2.66	0.44
2:CX:75:HIS:NE2	3:DX:59:LYS:HB3	2.31	0.44
2:CN:78:ALA:HB1	2:CN:195:VAL:HG12	1.99	0.44
1:AT:219:TYR:HD2	3:DU:39:ARG:HB2	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:62:SER:O	1:BA:63:THR:CB	2.66	0.44
1:AW:62:SER:O	1:AW:63:THR:CB	2.66	0.44
2:CX:54:LEU:HB2	2:CX:220:ALA:HB3	1.99	0.44
2:CL:54:LEU:HB2	2:CL:220:ALA:HB3	1.99	0.44
2:CQ:54:LEU:HD21	2:CQ:97:VAL:HG11	1.99	0.44
2:CY:54:LEU:HD21	2:CY:97:VAL:HG11	1.99	0.44
3:DR:97:PHE:HB3	3:DR:218:HIS:O	2.17	0.44
3:D8:97:PHE:HB3	3:D8:218:HIS:O	2.17	0.44
1:BA:110:GLY:H	1:BB:242:ASN:ND2	2.12	0.44
2:CV:65:LYS:CB	3:DD:135:ARG:HH21	147.67	0.44
2:C6:65:LYS:CB	3:DE:135:ARG:HH21	2.29	0.44
2:CL:39:PRO:HB3	2:CL:176:PRO:HA	1.99	0.44
2:CV:39:PRO:HB3	2:CV:176:PRO:HA	2.00	0.44
3:DD:175:THR:OG1	3:DD:178:ASN:ND2	2.51	0.44
3:DR:175:THR:OG1	3:DR:178:ASN:ND2	2.51	0.44
3:D8:179:VAL:HG12	3:D8:181:GLY:N	2.33	0.44
3:ED:175:THR:OG1	3:ED:178:ASN:ND2	2.51	0.44
3:EB:175:THR:OG1	3:EB:178:ASN:ND2	2.51	0.44
3:EE:175:THR:OG1	3:EE:178:ASN:ND2	2.51	0.44
3:DL:79:SER:O	3:DL:81:SER:N	2.51	0.44
2:C4:140:LEU:HD22	2:C4:190:ASN:CG	2.38	0.44
1:AE:26:VAL:HG12	1:AE:27:HIS:N	2.32	0.44
1:AI:22:VAL:HG12	1:AI:23:ASP:N	2.33	0.44
1:BH:22:VAL:HG12	1:BH:23:ASP:N	2.32	0.44
1:BC:201:ALA:O	1:BC:202:HIS:CD2	2.71	0.44
1:AH:201:ALA:O	1:AH:202:HIS:CD2	2.71	0.44
3:D2:84:GLU:H	3:D2:84:GLU:CD	2.21	0.44
1:A4:201:ALA:O	1:A4:202:HIS:CD2	2.71	0.44
3:EB:198:VAL:HG23	3:EB:199:ASN:H	1.82	0.44
1:AX:201:ALA:O	1:AX:202:HIS:HD2	2.01	0.44
2:CR:34:TYR:HA	2:CR:174:VAL:O	2.18	0.44
1:BA:56:VAL:HG13	1:BA:193:GLY:O	2.17	0.44
1:A6:225:PRO:HA	1:A6:226:PRO:HD2	1.88	0.44
2:C9:34:TYR:HA	2:C9:174:VAL:O	2.18	0.44
3:D3:134:THR:OG1	3:D3:137:GLU:HG3	2.17	0.44
2:CO:34:TYR:HA	2:CO:174:VAL:O	2.18	0.44
1:A6:56:VAL:HG13	1:A6:193:GLY:O	2.17	0.44
2:CW:34:TYR:HA	2:CW:174:VAL:O	2.18	0.44
2:CF:42:ARG:HA	2:CF:43:PRO:HD2	1.64	0.44
2:C5:116:ALA:N	3:DG:119:LYS:NZ	2.66	0.44
2:CO:116:ALA:N	3:DP:119:LYS:NZ	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CQ:63:THR:CG2	3:DP:188:LEU:HD21	117.67	0.44
2:CE:117:SER:HB3	3:DC:192:THR:CG2	158.24	0.44
2:CF:63:THR:CG2	3:D6:188:LEU:HD21	2.47	0.44
3:DA:103:SER:HB2	3:DA:159:PRO:HA	1.95	0.44
3:D5:101:ARG:HG2	3:D5:101:ARG:O	2.17	0.44
3:EC:101:ARG:HG2	3:EC:101:ARG:O	2.17	0.44
1:AR:13:THR:C	1:AR:14:GLU:HG3	2.38	0.44
3:D6:101:ARG:HG2	3:D6:101:ARG:O	2.17	0.44
1:AI:201:ALA:O	1:AI:202:HIS:CD2	2.71	0.44
1:AI:201:ALA:O	1:AI:202:HIS:HD2	2.01	0.44
1:AJ:101:PHE:O	1:AJ:199:SER:OG	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:AX:101:PHE:CD2	1:AX:143:VAL:HG11	2.44	0.44
1:BI:201:ALA:O	1:BI:202:HIS:CD2	2.71	0.44
3:DH:8:VAL:CG1	3:DH:9:PRO:HD2	2.39	0.44
3:DY:7:SER:OG	3:DY:11:SER:HB3	2.17	0.44
1:AV:40:VAL:HB	1:AV:68:TRP:CH2	2.53	0.44
2:CW:209:VAL:O	2:CW:209:VAL:CG1	2.65	0.44
1:AE:181:LYS:O	1:AE:182:ALA:CB	2.66	0.44
1:AO:181:LYS:O	1:AO:182:ALA:CB	2.66	0.44
2:CM:140:LEU:HD22	2:CM:190:ASN:CG	2.38	0.44
1:AF:174:TRP:HB2	2:CF:188:LEU:CD2	2.44	0.44
2:CD:140:LEU:HD22	2:CD:190:ASN:CG	2.38	0.44
2:CC:57:THR:O	2:CC:58:LEU:CB	2.66	0.44
2:C4:57:THR:HG22	2:C4:58:LEU:H	1.82	0.44
2:C4:57:THR:O	2:C4:58:LEU:CB	2.66	0.44
1:AN:49:THR:HG22	1:AN:50:GLY:H	1.82	0.44
2:CG:57:THR:O	2:CG:58:LEU:CB	2.66	0.44
1:AA:49:THR:HG22	1:AA:50:GLY:H	1.82	0.44
2:C8:57:THR:O	2:C8:58:LEU:CB	2.66	0.44
2:CP:57:THR:O	2:CP:58:LEU:CB	2.66	0.44
2:CD:156:SER:HA	2:CD:160:HIS:CD2	2.52	0.44
2:CK:125:CYS:SG	2:CK:160:HIS:HD2	2.40	0.44
1:AF:49:THR:HG22	1:AF:50:GLY:H	1.82	0.44
1:BA:49:THR:HG22	1:BA:50:GLY:H	1.82	0.44
2:CV:160:HIS:HE2	3:EC:51:TYR:HE1	242.60	0.44
2:C5:160:HIS:HE2	3:D5:51:TYR:HE1	1.64	0.44
2:CI:160:HIS:HE2	3:DI:51:TYR:HE1	1.64	0.44
2:CV:152:TYR:CE1	3:EC:60:PRO:CG	262.33	0.44
2:CV:153:GLN:NE2	3:DV:55:SER:CB	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:25:ASN:O	2:CD:26:SER:HB3	2.18	0.44
2:CX:152:TYR:HB3	2:CX:197:LEU:HD22	2.00	0.44
2:CC:25:ASN:O	2:CC:26:SER:HB3	2.18	0.44
2:CO:25:ASN:O	2:CO:26:SER:HB3	2.18	0.44
2:C9:153:GLN:NE2	3:D9:55:SER:CB	2.80	0.44
2:C9:152:TYR:CE1	3:D9:60:PRO:CG	3.01	0.44
2:CA:152:TYR:CE1	3:DA:60:PRO:CG	3.01	0.44
2:CW:152:TYR:OH	3:ED:60:PRO:HD3	256.47	0.44
2:CX:25:ASN:O	2:CX:26:SER:HB3	2.18	0.44
2:CB:25:ASN:O	2:CB:26:SER:HB3	2.18	0.44
1:A8:72:LEU:O	1:A8:75:CYS:SG	2.76	0.44
1:A7:170:PHE:CD2	1:A7:222:ARG:NH1	2.85	0.44
1:A7:72:LEU:O	1:A7:75:CYS:SG	2.76	0.44
2:C6:153:GLN:NE2	3:D6:55:SER:CB	2.80	0.44
1:AX:170:PHE:CD2	1:AX:222:ARG:NH1	2.85	0.44
1:A0:170:PHE:CD2	1:A0:222:ARG:NH1	2.85	0.44
2:CD:83:LEU:HA	2:CD:84:PRO:HA	1.60	0.44
2:CC:84:PRO:HD2	2:CC:186:LEU:CD2	2.48	0.44
2:CQ:140:LEU:HD22	2:CQ:190:ASN:CG	2.38	0.44
1:A4:219:TYR:HD2	3:D5:39:ARG:HB2	1.79	0.44
2:C7:180:PRO:HD2	2:C7:189:HIS:HE1	1.76	0.44
1:AF:62:SER:O	1:AF:63:THR:CB	2.66	0.44
1:A0:62:SER:O	1:A0:63:THR:CB	2.66	0.44
1:A4:181:LYS:O	1:A4:182:ALA:CB	2.66	0.44
2:C3:135:THR:HG23	2:C3:145:LEU:HD11	1.99	0.44
2:CU:140:LEU:HD22	2:CU:190:ASN:CG	2.38	0.44
2:CW:78:ALA:HB1	2:CW:195:VAL:HG12	1.99	0.44
1:AM:62:SER:O	1:AM:63:THR:CB	2.66	0.44
1:AP:62:SER:O	1:AP:63:THR:CB	2.66	0.44
1:BG:62:SER:O	1:BG:63:THR:CB	2.66	0.44
1:AX:43:LEU:CD2	1:AX:43:LEU:N	2.74	0.44
2:C5:54:LEU:HD21	2:C5:97:VAL:HG11	1.99	0.44
1:AJ:43:LEU:N	1:AJ:43:LEU:CD2	2.74	0.44
2:C0:54:LEU:HB2	2:C0:220:ALA:HB3	1.99	0.44
3:DO:97:PHE:HB3	3:DO:218:HIS:O	2.17	0.44
1:BC:109:VAL:HG22	1:BC:191:HIS:HD2	1.82	0.44
3:EB:97:PHE:HB3	3:EB:218:HIS:O	2.17	0.44
2:CC:65:LYS:CB	3:DN:135:ARG:HH21	164.35	0.44
1:AY:109:VAL:HG22	1:AY:191:HIS:HD2	1.82	0.44
2:CN:39:PRO:HB3	2:CN:176:PRO:HA	1.99	0.44
2:CE:129:VAL:HA	2:CE:130:PRO:HD3	1.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DO:179:VAL:HG12	3:DO:181:GLY:N	2.32	0.44
3:DN:175:THR:OG1	3:DN:178:ASN:ND2	2.51	0.44
3:DR:179:VAL:HG12	3:DR:181:GLY:N	2.32	0.44
3:DA:179:VAL:HG12	3:DA:181:GLY:N	2.32	0.44
3:DU:175:THR:OG1	3:DU:178:ASN:ND2	2.51	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
1:BG:107:PHE:HB2	1:BG:194:SER:OG	2.17	0.44
1:A6:107:PHE:HB2	1:A6:194:SER:OG	2.16	0.44
1:BB:107:PHE:HB2	1:BB:194:SER:OG	2.17	0.44
3:DO:79:SER:O	3:DO:81:SER:N	2.51	0.44
2:CY:140:LEU:HD22	2:CY:190:ASN:CG	2.38	0.44
1:BG:26:VAL:HG12	1:BG:27:HIS:N	2.32	0.44
1:AK:26:VAL:HG12	1:AK:27:HIS:N	2.32	0.44
1:A6:22:VAL:HG12	1:A6:23:ASP:N	2.33	0.44
3:D1:84:GLU:CD	3:D1:84:GLU:H	2.21	0.44
1:BG:201:ALA:O	1:BG:202:HIS:HD2	2.01	0.44
1:AR:22:VAL:HG12	1:AR:23:ASP:N	2.33	0.44
1:BF:22:VAL:HG12	1:BF:23:ASP:N	2.33	0.44
1:A2:201:ALA:O	1:A2:202:HIS:CD2	2.71	0.44
1:A7:201:ALA:O	1:A7:202:HIS:HD2	2.01	0.44
4:FL:32:ASN:HB3	4:FL:33:SER:H	1.58	0.44
2:CI:34:TYR:HA	2:CI:174:VAL:O	2.18	0.44
1:AX:56:VAL:HG13	1:AX:193:GLY:O	2.17	0.44
2:C4:34:TYR:HA	2:C4:174:VAL:O	2.18	0.44
1:AD:234:LYS:HD3	1:AD:234:LYS:HA	1.89	0.44
2:CP:34:TYR:HA	2:CP:174:VAL:O	2.18	0.44
2:CI:63:THR:CG2	3:DJ:188:LEU:HD21	44.11	0.44
2:CW:63:THR:CG2	3:DS:188:LEU:HD21	236.01	0.44
2:CT:63:THR:CG2	3:DH:188:LEU:HD21	223.87	0.44
2:CQ:116:ALA:N	3:DY:119:LYS:NZ	112.17	0.44
2:CN:116:ALA:N	3:D2:119:LYS:NZ	2.66	0.44
2:CE:116:ALA:N	3:DF:119:LYS:NZ	2.66	0.44
2:CS:116:ALA:N	3:EA:119:LYS:NZ	158.30	0.44
1:AK:13:THR:C	1:AK:14:GLU:HG3	2.38	0.44
1:A3:13:THR:C	1:A3:14:GLU:HG3	2.38	0.44
1:A8:146:ILE:O	1:A8:146:ILE:HG22	2.18	0.44
1:AE:40:VAL:HB	1:AE:68:TRP:CH2	2.53	0.44
1:AP:206:GLY:CA	1:AS:121:LEU:HD21	2.47	0.44
1:AT:101:PHE:CD2	1:AT:143:VAL:CG1	2.91	0.44
1:AT:38:PHE:CD1	1:AX:137:GLY:HA2	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:146:ILE:O	1:BE:146:ILE:HG22	2.17	0.44
1:BF:146:ILE:HG22	1:BF:146:ILE:O	2.17	0.44
3:DF:19:PRO:HB3	4:FJ:30:TYR:CD2	2.52	0.44
3:DO:19:PRO:HB3	4:FS:30:TYR:CD2	106.41	0.44
3:EC:7:SER:OG	3:EC:11:SER:HB3	2.17	0.44
1:BG:121:LEU:HD21	1:BH:206:GLY:CA	2.47	0.44
3:DZ:7:SER:OG	3:DZ:11:SER:HB3	2.17	0.44
1:AD:181:LYS:O	1:AD:182:ALA:CB	2.66	0.44
1:AH:181:LYS:O	1:AH:182:ALA:CB	2.66	0.44
1:AJ:181:LYS:O	1:AJ:182:ALA:CB	2.66	0.44
1:AL:52:PRO:HD3	1:AL:115:THR:O	2.17	0.44
1:AP:49:THR:HG22	1:AP:50:GLY:H	1.82	0.44
2:CN:57:THR:O	2:CN:58:LEU:CB	2.66	0.44
2:CD:58:LEU:HB3	2:CD:59:SER:H	1.65	0.44
2:C6:57:THR:HG22	2:C6:58:LEU:H	1.82	0.44
2:CM:57:THR:O	2:CM:58:LEU:CB	2.66	0.44
2:CR:57:THR:O	2:CR:58:LEU:CB	2.66	0.44
2:CE:160:HIS:HE2	3:DE:51:TYR:HE1	1.64	0.44
1:A8:49:THR:HG22	1:A8:50:GLY:H	1.82	0.44
1:AM:115:THR:HG23	1:AM:133:LEU:N	2.25	0.44
2:C2:57:THR:O	2:C2:58:LEU:CB	2.66	0.44
2:C0:57:THR:HG22	2:C0:58:LEU:H	1.82	0.44
2:C2:156:SER:HA	2:C2:160:HIS:CD2	2.52	0.44
2:C5:125:CYS:SG	2:C5:160:HIS:HD2	2.41	0.44
1:BC:49:THR:HG22	1:BC:50:GLY:H	1.82	0.44
2:C6:160:HIS:HE2	3:D6:51:TYR:HE1	1.64	0.44
2:CY:152:TYR:OH	3:DY:60:PRO:HD3	2.17	0.44
2:CI:152:TYR:CE1	3:DI:60:PRO:CG	3.01	0.44
2:CV:152:TYR:OH	3:DV:60:PRO:HD3	2.17	0.44
2:CT:152:TYR:HB3	2:CT:197:LEU:HD22	2.00	0.44
2:C5:25:ASN:O	2:C5:26:SER:HB3	2.18	0.44
2:CT:25:ASN:O	2:CT:26:SER:HB3	2.18	0.44
2:CA:152:TYR:HB3	2:CA:197:LEU:HD22	2.00	0.44
2:C5:152:TYR:HB3	2:C5:197:LEU:HD22	2.00	0.44
2:CZ:152:TYR:HB3	2:CZ:197:LEU:HD22	2.00	0.44
2:C4:152:TYR:CE1	3:D4:60:PRO:CG	3.01	0.44
2:CG:25:ASN:O	2:CG:26:SER:HB3	2.18	0.44
2:CM:13:ARG:HA	2:CM:13:ARG:HD3	1.72	0.44
2:CM:25:ASN:O	2:CM:26:SER:HB3	2.18	0.44
2:C0:25:ASN:O	2:C0:26:SER:HB3	2.18	0.44
2:CE:25:ASN:O	2:CE:26:SER:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:25:ASN:O	2:C7:26:SER:HB3	2.18	0.44
1:A3:72:LEU:O	1:A3:75:CYS:SG	2.76	0.44
2:C2:152:TYR:CE1	3:D2:60:PRO:CG	3.01	0.44
1:A1:170:PHE:CD2	1:A1:222:ARG:NH1	2.85	0.44
1:BB:170:PHE:CD2	1:BB:222:ARG:NH1	2.85	0.44
1:A6:72:LEU:O	1:A6:75:CYS:SG	2.76	0.44
2:CE:158:PHE:O	2:CE:159:PRO:C	2.55	0.44
2:CF:157:VAL:HG23	3:DF:50:THR:HG21	1.99	0.44
2:C1:157:VAL:HG23	3:D1:50:THR:HG21	1.99	0.44
1:BH:181:LYS:O	1:BH:182:ALA:CB	2.66	0.44
2:CT:140:LEU:HD22	2:CT:190:ASN:CG	2.38	0.44
2:CJ:84:PRO:HD2	2:CJ:186:LEU:CD2	2.48	0.44
2:CY:157:VAL:HG23	3:DY:50:THR:HG21	1.99	0.44
2:CW:157:VAL:HG23	3:DW:50:THR:HG21	1.99	0.44
1:BB:181:LYS:O	1:BB:182:ALA:CB	2.66	0.44
2:CB:84:PRO:HD2	2:CB:186:LEU:CD2	2.48	0.44
1:AN:62:SER:O	1:AN:63:THR:CB	2.66	0.44
2:C0:157:VAL:HG23	3:D0:50:THR:HG21	1.99	0.44
2:C2:140:LEU:HD22	2:C2:190:ASN:CG	2.38	0.44
1:AB:62:SER:O	1:AB:63:THR:CB	2.66	0.44
1:A2:181:LYS:O	1:A2:182:ALA:CB	2.66	0.44
1:AL:62:SER:O	1:AL:63:THR:CB	2.66	0.44
3:EA:75:GLN:NE2	3:EA:184:GLN:OE1	2.49	0.44
1:AX:62:SER:O	1:AX:63:THR:CB	2.66	0.44
1:A8:62:SER:HB2	1:A8:73:ASN:ND2	2.27	0.44
2:CE:54:LEU:HD21	2:CE:97:VAL:HG11	1.99	0.44
2:CQ:54:LEU:HB2	2:CQ:220:ALA:HB3	1.99	0.44
1:A2:43:LEU:HD23	1:A2:43:LEU:H	1.81	0.44
3:EA:97:PHE:HB3	3:EA:218:HIS:O	2.17	0.44
2:C6:54:LEU:HD21	2:C6:97:VAL:HG11	1.99	0.44
3:D4:97:PHE:HB3	3:D4:218:HIS:O	2.17	0.44
3:EE:97:PHE:HB3	3:EE:218:HIS:O	2.17	0.44
3:DW:97:PHE:HB3	3:DW:218:HIS:O	2.17	0.44
3:DK:97:PHE:HB3	3:DK:218:HIS:O	2.17	0.44
1:AC:110:GLY:H	1:AD:242:ASN:ND2	2.12	0.44
1:BA:224:ILE:HA	1:BA:225:PRO:HD2	1.86	0.44
2:CR:36:TYR:CE2	2:CR:130:PRO:CG	2.98	0.44
2:CJ:39:PRO:HB3	2:CJ:176:PRO:HA	1.99	0.44
2:CH:39:PRO:HB3	2:CH:176:PRO:HA	1.99	0.44
3:DH:179:VAL:HG12	3:DH:181:GLY:N	2.32	0.44
3:DL:175:THR:OG1	3:DL:178:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:175:THR:OG1	3:D2:178:ASN:ND2	2.51	0.44
3:EC:175:THR:OG1	3:EC:178:ASN:ND2	2.51	0.44
3:EE:172:ALA:O	3:EE:178:ASN:OD1	2.34	0.44
1:BE:55:HIS:O	1:BE:194:SER:HB2	2.18	0.44
1:AU:55:HIS:O	1:AU:194:SER:HB2	2.18	0.44
1:A5:55:HIS:O	1:A5:194:SER:HB2	2.18	0.44
1:AX:26:VAL:HG12	1:AX:27:HIS:N	2.32	0.44
1:BB:26:VAL:HG12	1:BB:27:HIS:N	2.32	0.44
1:A7:22:VAL:HG12	1:A7:23:ASP:N	2.33	0.44
3:DC:84:GLU:CD	3:DC:84:GLU:H	2.21	0.44
1:AW:22:VAL:HG12	1:AW:23:ASP:N	2.32	0.44
1:BB:201:ALA:O	1:BB:202:HIS:HD2	2.01	0.44
1:AU:201:ALA:O	1:AU:202:HIS:HD2	2.01	0.44
1:AM:201:ALA:O	1:AM:202:HIS:HD2	2.01	0.44
1:A5:201:ALA:O	1:A5:202:HIS:HD2	2.01	0.44
1:AE:201:ALA:O	1:AE:202:HIS:CD2	2.71	0.44
1:AV:201:ALA:O	1:AV:202:HIS:HD2	2.01	0.44
1:A6:201:ALA:O	1:A6:202:HIS:CD2	2.71	0.44
2:C7:34:TYR:HA	2:C7:174:VAL:O	2.18	0.44
3:D1:134:THR:OG1	3:D1:137:GLU:HG3	2.17	0.44
3:DU:134:THR:OG1	3:DU:137:GLU:HG3	2.17	0.44
2:C8:34:TYR:HA	2:C8:174:VAL:O	2.18	0.44
2:C0:34:TYR:HA	2:C0:174:VAL:O	2.18	0.44
2:CL:34:TYR:HA	2:CL:174:VAL:O	2.18	0.44
2:CC:34:TYR:HA	2:CC:174:VAL:O	2.18	0.44
2:CN:22:THR:HG23	2:CN:22:THR:O	2.18	0.44
2:CJ:22:THR:HG23	2:CJ:22:THR:O	2.19	0.44
3:D6:134:THR:OG1	3:D6:137:GLU:HG3	2.17	0.44
2:CL:22:THR:O	2:CL:22:THR:HG23	2.18	0.44
2:CF:34:TYR:HA	2:CF:174:VAL:O	2.18	0.44
1:AQ:56:VAL:HG13	1:AQ:193:GLY:O	2.17	0.44
2:CC:116:ALA:N	3:DN:119:LYS:NZ	159.96	0.43
2:C7:207:GLN:HB3	3:DM:196:ILE:HG21	166.96	0.43
2:CR:207:GLN:HB3	3:EE:196:ILE:HG21	2.00	0.43
2:CL:116:ALA:N	3:D8:119:LYS:NZ	112.17	0.43
2:CO:117:SER:HB3	3:DR:192:THR:CG2	155.57	0.43
2:CB:117:SER:HB3	3:DT:192:THR:CG2	264.08	0.43
2:CS:117:SER:HB3	3:DC:192:THR:CG2	264.08	0.43
1:BD:13:THR:C	1:BD:14:GLU:HG3	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:101:PHE:CD2	1:AC:143:VAL:CG1	2.91	0.43
1:AD:201:ALA:O	1:AD:202:HIS:HD2	2.01	0.43
1:AD:40:VAL:HB	1:AD:68:TRP:CH2	2.53	0.43
1:AE:146:ILE:HD13	1:AE:146:ILE:HG21	1.74	0.43
1:AG:201:ALA:O	1:AG:202:HIS:CD2	2.71	0.43
1:AJ:40:VAL:HB	1:AJ:68:TRP:CH2	2.53	0.43
1:AK:40:VAL:HB	1:AK:68:TRP:CH2	2.53	0.43
1:AM:101:PHE:O	1:AM:199:SER:OG	2.33	0.43
1:AN:143:VAL:H	3:DO:14:PHE:CB	2.28	0.43
1:AQ:146:ILE:HG21	1:AQ:146:ILE:HD13	1.74	0.43
1:AS:201:ALA:O	1:AS:202:HIS:HD2	2.01	0.43
1:BE:40:VAL:HB	1:BE:68:TRP:CH2	2.53	0.43
3:DA:7:SER:OG	3:DA:11:SER:HB3	2.17	0.43
3:DP:19:PRO:HB3	4:FO:30:TYR:CD2	96.38	0.43
1:A4:121:LEU:HD21	1:A5:206:GLY:CA	2.47	0.43
1:A0:201:ALA:O	1:A0:202:HIS:CD2	2.71	0.43
1:A2:139:SER:HA	1:A2:140:PRO:HD3	1.62	0.43
2:CV:140:LEU:HD22	2:CV:190:ASN:CG	2.38	0.43
1:AI:181:LYS:O	1:AI:182:ALA:CB	2.66	0.43
1:AB:181:LYS:O	1:AB:182:ALA:CB	2.66	0.43
2:CF:140:LEU:HD22	2:CF:190:ASN:CG	2.38	0.43
2:CJ:140:LEU:HD22	2:CJ:190:ASN:CG	2.38	0.43
1:BI:181:LYS:O	1:BI:182:ALA:CB	2.66	0.43
1:A6:49:THR:HG22	1:A6:50:GLY:H	1.82	0.43
2:CV:58:LEU:HB3	2:CV:59:SER:H	1.65	0.43
1:A7:49:THR:HG22	1:A7:50:GLY:H	1.82	0.43
1:AW:52:PRO:HD3	1:AW:115:THR:O	2.17	0.43
2:CC:125:CYS:SG	2:CC:160:HIS:HD2	2.41	0.43
2:C2:125:CYS:SG	2:C2:160:HIS:HD2	2.40	0.43
2:C0:160:HIS:HE2	3:D0:51:TYR:HE1	1.64	0.43
2:CY:57:THR:HG22	2:CY:58:LEU:H	1.82	0.43
2:CH:152:TYR:CE1	3:DH:60:PRO:CG	3.01	0.43
2:CF:152:TYR:CE1	3:DF:60:PRO:CG	3.01	0.43
2:CU:152:TYR:CE1	3:DU:60:PRO:CG	3.01	0.43
2:CL:152:TYR:HB3	2:CL:197:LEU:HD22	2.00	0.43
2:CD:13:ARG:HD3	2:CD:13:ARG:HA	1.72	0.43
1:AI:72:LEU:O	1:AI:75:CYS:SG	2.76	0.43
1:AO:72:LEU:O	1:AO:75:CYS:SG	2.76	0.43
2:C3:153:GLN:NE2	3:D3:55:SER:CB	2.80	0.43
2:CK:152:TYR:CE1	3:DK:60:PRO:CG	3.01	0.43
2:C5:152:TYR:CE1	3:D5:60:PRO:CG	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CN:25:ASN:O	2:CN:26:SER:HB3	2.18	0.43
2:CK:13:ARG:HD3	2:CK:13:ARG:HA	1.72	0.43
2:CK:25:ASN:O	2:CK:26:SER:HB3	2.18	0.43
2:CW:25:ASN:O	2:CW:26:SER:HB3	2.18	0.43
1:AB:72:LEU:O	1:AB:75:CYS:SG	2.76	0.43
1:AN:72:LEU:O	1:AN:75:CYS:SG	2.76	0.43
2:CC:152:TYR:CE1	3:DC:60:PRO:CG	3.01	0.43
1:A5:72:LEU:O	1:A5:75:CYS:SG	2.76	0.43
2:CD:152:TYR:CE1	3:DD:60:PRO:CG	3.01	0.43
2:C2:25:ASN:O	2:C2:26:SER:HB3	2.18	0.43
2:C6:152:TYR:CE1	3:D6:60:PRO:CG	3.01	0.43
2:C8:152:TYR:OH	3:D8:60:PRO:HD3	2.17	0.43
1:AT:72:LEU:O	1:AT:75:CYS:SG	2.76	0.43
2:CA:84:PRO:HD2	2:CA:186:LEU:CD2	2.48	0.43
2:CQ:134:HIS:HB3	2:CQ:135:THR:H	1.46	0.43
2:C8:157:VAL:HG23	3:D8:50:THR:HG21	1.99	0.43
1:A0:181:LYS:O	1:A0:182:ALA:CB	2.66	0.43
1:A1:181:LYS:O	1:A1:182:ALA:CB	2.66	0.43
3:D8:56:ILE:CG1	3:D8:74:PHE:CE1	2.98	0.43
1:A0:62:SER:HB2	1:A0:73:ASN:ND2	2.27	0.43
2:C5:140:LEU:HD22	2:C5:190:ASN:CG	2.38	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:AY:181:LYS:O	1:AY:182:ALA:CB	2.66	0.43
2:CG:54:LEU:HB2	2:CG:220:ALA:HB3	2.00	0.43
1:AQ:43:LEU:N	1:AQ:43:LEU:CD2	2.74	0.43
2:CR:54:LEU:HD21	2:CR:97:VAL:HG11	1.99	0.43
1:AT:43:LEU:H	1:AT:43:LEU:HD23	1.81	0.43
2:CK:54:LEU:HD21	2:CK:97:VAL:HG11	1.99	0.43
1:A9:43:LEU:CD2	1:A9:43:LEU:N	2.74	0.43
3:DY:97:PHE:HB3	3:DY:218:HIS:O	2.17	0.43
3:EC:97:PHE:HB3	3:EC:218:HIS:O	2.17	0.43
2:C1:65:LYS:CB	3:DO:135:ARG:HH21	2.29	0.43
2:C5:65:LYS:CB	3:DG:135:ARG:HH21	2.29	0.43
2:C5:23:ILE:H	2:C5:23:ILE:HD12	1.80	0.43
1:AT:224:ILE:HA	1:AT:225:PRO:HD2	1.86	0.43
2:CT:36:TYR:CE2	2:CT:130:PRO:CG	2.98	0.43
2:C0:39:PRO:HB3	2:C0:176:PRO:HA	1.99	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:D3:175:THR:OG1	3:D3:178:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:179:VAL:HG12	3:DJ:181:GLY:N	2.32	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:DY:175:THR:OG1	3:DY:178:ASN:ND2	2.51	0.43
2:CY:216:ALA:HA	2:CY:217:PRO:HD3	1.78	0.43
1:AF:55:HIS:O	1:AF:194:SER:HB2	2.18	0.43
1:AT:55:HIS:O	1:AT:194:SER:HB2	2.17	0.43
1:AW:55:HIS:O	1:AW:194:SER:HB2	2.18	0.43
2:CL:140:LEU:HD22	2:CL:190:ASN:CG	2.38	0.43
3:D9:79:SER:O	3:D9:81:SER:N	2.51	0.43
1:AJ:26:VAL:HG12	1:AJ:27:HIS:N	2.32	0.43
3:DD:84:GLU:H	3:DD:84:GLU:CD	2.21	0.43
1:AK:22:VAL:HG12	1:AK:23:ASP:N	2.33	0.43
1:AU:22:VAL:HG12	1:AU:23:ASP:N	2.33	0.43
1:BH:201:ALA:O	1:BH:202:HIS:CD2	2.71	0.43
1:AX:201:ALA:O	1:AX:202:HIS:CD2	2.71	0.43
2:CY:34:TYR:HA	2:CY:174:VAL:O	2.18	0.43
2:CZ:34:TYR:HA	2:CZ:174:VAL:O	2.18	0.43
3:D0:134:THR:OG1	3:D0:137:GLU:HG3	2.17	0.43
2:CB:34:TYR:HA	2:CB:174:VAL:O	2.18	0.43
3:EA:36:VAL:HA	3:EA:37:PRO:HD3	1.53	0.43
2:CQ:22:THR:O	2:CQ:22:THR:HG23	2.18	0.43
1:AZ:234:LYS:HA	1:AZ:234:LYS:HD3	1.89	0.43
2:CM:22:THR:HG23	2:CM:22:THR:O	2.18	0.43
2:C3:22:THR:HG23	2:C3:22:THR:O	2.18	0.43
2:C5:34:TYR:HA	2:C5:174:VAL:O	2.18	0.43
2:CI:117:SER:HB3	3:DJ:192:THR:CG2	79.69	0.43
2:CJ:117:SER:HB3	3:DM:192:THR:CG2	234.47	0.43
2:CV:117:SER:HB3	3:DD:192:THR:CG2	155.58	0.43
2:CJ:116:ALA:N	3:DM:119:LYS:NZ	231.28	0.43
2:CL:116:ALA:N	3:DK:119:LYS:HZ1	108.01	0.43
2:CT:117:SER:HB3	3:DH:192:THR:CG2	228.63	0.43
2:CT:117:SER:HB3	3:DK:192:THR:CG2	2.47	0.43
2:CU:116:ALA:N	3:D5:119:LYS:NZ	256.87	0.43
2:CX:117:SER:HB3	3:DO:192:THR:CG2	223.43	0.43
2:CX:117:SER:HB3	3:DR:192:THR:CG2	159.15	0.43
2:CG:116:ALA:N	3:EB:119:LYS:NZ	2.66	0.43
2:CA:117:SER:HB3	3:DL:192:THR:CG2	263.16	0.43
2:CA:207:GLN:HB3	3:DL:196:ILE:HG21	276.00	0.43
2:CN:115:ASN:HD22	3:DE:190:ALA:C	263.80	0.43
2:CS:116:ALA:N	3:DC:119:LYS:NZ	258.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:49:ASP:HA	2:CG:50:PRO:HD2	1.81	0.43
1:A2:13:THR:C	1:A2:14:GLU:HG3	2.38	0.43
3:D1:103:SER:HB2	3:D1:159:PRO:HA	1.95	0.43
1:A9:121:LEU:HD21	1:AN:206:GLY:CA	159.56	0.43
1:AB:40:VAL:HB	1:AB:68:TRP:CH2	2.53	0.43
1:AH:121:LEU:HD21	1:AI:206:GLY:CA	2.47	0.43
1:AO:101:PHE:CD2	1:AO:143:VAL:CG1	2.91	0.43
1:AP:40:VAL:HB	1:AP:68:TRP:CH2	2.54	0.43
1:AO:206:GLY:CA	1:AR:121:LEU:HD21	137.57	0.43
1:AT:137:GLY:HA2	1:AU:38:PHE:CD1	2.48	0.43
1:AU:40:VAL:HB	1:AU:68:TRP:CH2	2.53	0.43
1:AW:146:ILE:O	1:AW:146:ILE:HG22	2.17	0.43
1:AW:40:VAL:HB	1:AW:68:TRP:CH2	2.53	0.43
1:BI:146:ILE:O	1:BI:146:ILE:HG22	2.17	0.43
1:BI:40:VAL:HB	1:BI:68:TRP:CH2	2.53	0.43
1:A0:40:VAL:HB	1:A0:68:TRP:CH2	2.53	0.43
1:A5:121:LEU:HD21	1:A6:206:GLY:CA	2.47	0.43
2:CE:140:LEU:HD22	2:CE:190:ASN:CG	2.38	0.43
1:AH:174:TRP:HB2	2:CJ:188:LEU:CD2	102.19	0.43
1:AJ:174:TRP:HB2	2:CJ:188:LEU:CD2	2.44	0.43
1:AN:174:TRP:HB2	2:CB:188:LEU:CD2	207.29	0.43
2:CH:58:LEU:HB3	2:CH:59:SER:H	1.65	0.43
2:CX:55:GLY:HA2	2:CX:56:PRO:HD3	1.80	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
2:CV:57:THR:HG22	2:CV:58:LEU:H	1.82	0.43
1:A0:49:THR:HG22	1:A0:50:GLY:H	1.82	0.43
2:C4:125:CYS:SG	2:C4:160:HIS:HD2	2.40	0.43
1:AQ:49:THR:HG22	1:AQ:50:GLY:H	1.82	0.43
1:AK:49:THR:HG22	1:AK:50:GLY:H	1.82	0.43
1:AS:49:THR:HG22	1:AS:50:GLY:H	1.82	0.43
2:CP:152:TYR:CE1	3:DP:60:PRO:CG	3.01	0.43
2:CN:152:TYR:CE1	3:DN:60:PRO:CG	3.01	0.43
2:CF:152:TYR:HB3	2:CF:197:LEU:HD22	2.00	0.43
2:CU:153:GLN:NE2	3:DU:55:SER:CB	2.80	0.43
2:CJ:152:TYR:HB3	2:CJ:197:LEU:HD22	2.00	0.43
2:CT:152:TYR:CE1	3:EA:60:PRO:CG	197.23	0.43
1:AA:220:CYS:HA	1:AA:221:PRO:HD2	1.82	0.43
1:AE:30:VAL:HG13	1:AE:218:MET:HE2	2.04	0.43
1:AG:72:LEU:O	1:AG:75:CYS:SG	2.76	0.43
1:AM:72:LEU:O	1:AM:75:CYS:SG	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CO:152:TYR:CE1	3:DO:60:PRO:CG	3.01	0.43
2:CV:25:ASN:O	2:CV:26:SER:HB3	2.18	0.43
1:BF:170:PHE:CD2	1:BF:222:ARG:NH1	2.85	0.43
2:C2:153:GLN:NE2	3:D2:55:SER:CB	2.80	0.43
2:C0:152:TYR:HB3	2:C0:197:LEU:HD22	2.00	0.43
1:A6:220:CYS:HA	1:A6:221:PRO:HD2	1.82	0.43
2:CY:25:ASN:O	2:CY:26:SER:HB3	2.18	0.43
2:CR:84:PRO:HD2	2:CR:186:LEU:CD2	2.48	0.43
2:CP:157:VAL:HG23	3:DP:50:THR:HG21	1.99	0.43
2:C2:84:PRO:HD2	2:C2:186:LEU:CD2	2.48	0.43
2:CZ:84:PRO:HD2	2:CZ:186:LEU:CD2	2.48	0.43
1:AL:79:PHE:CD1	1:AL:79:PHE:C	2.92	0.43
2:CE:180:PRO:HD2	2:CE:189:HIS:HE1	1.76	0.43
2:CE:83:LEU:HA	2:CE:84:PRO:HA	1.60	0.43
1:A6:62:SER:O	1:A6:63:THR:CB	2.66	0.43
1:AO:62:SER:O	1:AO:63:THR:CB	2.66	0.43
1:AJ:62:SER:O	1:AJ:63:THR:CB	2.66	0.43
2:C5:135:THR:HG23	2:C5:145:LEU:HD11	1.99	0.43
1:AR:79:PHE:C	1:AR:79:PHE:CD1	2.92	0.43
1:AA:62:SER:O	1:AA:63:THR:CB	2.66	0.43
1:AU:62:SER:O	1:AU:63:THR:CB	2.66	0.43
2:CZ:140:LEU:HD22	2:CZ:190:ASN:CG	2.38	0.43
2:C5:54:LEU:HB2	2:C5:220:ALA:HB3	1.99	0.43
1:AL:43:LEU:N	1:AL:43:LEU:CD2	2.74	0.43
3:D7:217:ARG:HD3	3:D7:218:HIS:CD2	2.54	0.43
1:AI:110:GLY:H	1:AJ:242:ASN:ND2	2.12	0.43
1:AM:242:ASN:ND2	1:BD:110:GLY:H	247.31	0.43
1:BG:109:VAL:HG22	1:BG:191:HIS:HD2	1.82	0.43
1:A5:224:ILE:HA	1:A5:225:PRO:HD2	1.86	0.43
1:BH:224:ILE:HA	1:BH:225:PRO:HD2	1.86	0.43
1:AK:176:ALA:C	1:AK:178:THR:H	2.22	0.43
3:DU:179:VAL:HG12	3:DU:181:GLY:N	2.32	0.43
3:DP:179:VAL:HG12	3:DP:181:GLY:N	2.33	0.43
3:DX:179:VAL:HG12	3:DX:181:GLY:N	2.32	0.43
3:DT:175:THR:OG1	3:DT:178:ASN:ND2	2.51	0.43
1:BG:55:HIS:O	1:BG:194:SER:HB2	2.18	0.43
1:A7:55:HIS:O	1:A7:194:SER:HB2	2.18	0.43
1:AB:55:HIS:O	1:AB:194:SER:HB2	2.17	0.43
1:A0:109:VAL:HG22	1:A0:191:HIS:HD2	1.82	0.43
3:ED:77:ASP:O	3:ED:79:SER:N	2.50	0.43
3:DY:79:SER:O	3:DY:81:SER:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:26:VAL:HG12	1:BD:27:HIS:N	2.32	0.43
1:A3:26:VAL:HG12	1:A3:27:HIS:N	2.32	0.43
1:A3:22:VAL:HG12	1:A3:23:ASP:N	2.33	0.43
3:DZ:84:GLU:CD	3:DZ:84:GLU:H	2.21	0.43
3:D6:84:GLU:H	3:D6:84:GLU:CD	2.21	0.43
3:D5:198:VAL:HG23	3:D5:199:ASN:H	1.82	0.43
1:A6:201:ALA:O	1:A6:202:HIS:HD2	2.01	0.43
1:A7:201:ALA:O	1:A7:202:HIS:CD2	2.71	0.43
1:BD:201:ALA:O	1:BD:202:HIS:CD2	2.71	0.43
2:CH:34:TYR:HA	2:CH:174:VAL:O	2.18	0.43
1:AO:225:PRO:HA	1:AO:226:PRO:HD2	1.87	0.43
2:CR:42:ARG:HA	2:CR:43:PRO:HD2	1.64	0.43
1:AT:234:LYS:HA	1:AT:234:LYS:HD3	1.89	0.43
2:CX:22:THR:O	2:CX:22:THR:HG23	2.19	0.43
2:C7:22:THR:O	2:C7:22:THR:HG23	2.19	0.43
2:CG:34:TYR:HA	2:CG:174:VAL:O	2.18	0.43
2:C8:117:SER:HB3	3:D9:192:THR:CG2	2.48	0.43
2:CW:116:ALA:N	3:DS:119:LYS:NZ	250.03	0.43
2:CI:207:GLN:HB3	3:DJ:196:ILE:HG21	81.02	0.43
2:CH:116:ALA:N	3:DN:119:LYS:NZ	258.53	0.43
2:CT:116:ALA:N	3:DH:119:LYS:NZ	223.92	0.43
2:CT:207:GLN:HB3	3:DH:196:ILE:HG21	241.51	0.43
2:CL:116:ALA:N	3:DK:119:LYS:NZ	107.95	0.43
2:CU:212:THR:HG23	3:D5:188:LEU:HD22	255.93	0.43
2:CX:116:ALA:N	3:DR:119:LYS:NZ	156.14	0.43
2:C0:207:GLN:HB3	3:DQ:196:ILE:HG21	2.01	0.43
2:CN:117:SER:HB3	3:D2:192:THR:CG2	2.48	0.43
2:CN:207:GLN:HB3	3:DE:196:ILE:HG21	277.14	0.43
2:CP:207:GLN:HB3	3:D0:196:ILE:HG21	98.95	0.43
2:CH:49:ASP:HA	2:CH:50:PRO:HD2	1.80	0.43
2:CM:46:THR:CG2	3:DN:165:ASP:HA	2.38	0.43
3:D0:101:ARG:HG2	3:D0:101:ARG:O	2.17	0.43
1:AA:40:VAL:HB	1:AA:68:TRP:CH2	2.53	0.43
1:AC:146:ILE:HG22	1:AC:146:ILE:O	2.17	0.43
1:AC:40:VAL:HB	1:AC:68:TRP:CH2	2.53	0.43
1:AF:146:ILE:HD13	1:AF:146:ILE:HG21	1.74	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:AI:40:VAL:HB	1:AI:68:TRP:CH2	2.53	0.43
1:AM:137:GLY:HA2	1:AN:38:PHE:CD1	2.49	0.43
1:AO:40:VAL:HB	1:AO:68:TRP:CH2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:121:LEU:HD21	1:AR:206:GLY:CA	2.47	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:AT:101:PHE:O	1:AT:199:SER:OG	2.33	0.43
1:BG:40:VAL:HB	1:BG:68:TRP:CH2	2.53	0.43
3:DD:8:VAL:CG1	3:DD:9:PRO:HD2	2.39	0.43
3:DN:8:VAL:CG1	3:DN:9:PRO:HD2	2.39	0.43
1:AC:74:THR:HG22	1:AC:74:THR:O	2.19	0.43
1:AO:74:THR:O	1:AO:74:THR:HG22	2.19	0.43
1:AF:74:THR:O	1:AF:74:THR:HG22	2.19	0.43
1:A5:146:ILE:O	1:A5:146:ILE:HG22	2.17	0.43
1:A1:40:VAL:HB	1:A1:68:TRP:CH2	2.53	0.43
2:CC:140:LEU:HD22	2:CC:190:ASN:CG	2.38	0.43
2:CS:140:LEU:HD22	2:CS:190:ASN:CG	2.38	0.43
1:AL:174:TRP:HB2	2:CL:188:LEU:CD2	2.44	0.43
1:AL:174:TRP:HB2	2:CN:188:LEU:CD2	102.19	0.43
2:CN:140:LEU:HD22	2:CN:190:ASN:CG	2.38	0.43
1:A3:52:PRO:HD3	1:A3:115:THR:O	2.17	0.43
1:AK:208:TYR:CE2	1:AO:103:TRP:CZ2	3.06	0.43
1:AN:52:PRO:HD3	1:AN:115:THR:O	2.17	0.43
1:AN:103:TRP:CZ2	1:AO:208:TYR:CE2	3.06	0.43
2:C8:57:THR:HG22	2:C8:58:LEU:H	1.82	0.43
2:CV:57:THR:O	2:CV:58:LEU:CB	2.66	0.43
2:C9:156:SER:HA	2:C9:160:HIS:CD2	2.52	0.43
2:CT:57:THR:O	2:CT:58:LEU:CB	2.66	0.43
1:BB:52:PRO:HD3	1:BB:115:THR:O	2.17	0.43
2:CZ:160:HIS:HE2	3:DZ:51:TYR:HE1	1.64	0.43
2:CN:152:TYR:HB3	2:CN:197:LEU:HD22	2.00	0.43
2:C8:125:CYS:SG	2:C8:160:HIS:HD2	2.40	0.43
2:CT:153:GLN:NE2	3:EA:55:SER:CB	189.77	0.43
2:CX:152:TYR:CE1	3:DX:60:PRO:CG	3.01	0.43
2:CX:152:TYR:OH	3:EE:60:PRO:HD3	188.51	0.43
1:AG:220:CYS:HA	1:AG:221:PRO:HD2	1.82	0.43
1:BD:30:VAL:HG13	1:BD:218:MET:HE2	2.00	0.43
2:CO:13:ARG:HA	2:CO:13:ARG:HD3	1.72	0.43
1:AJ:72:LEU:O	1:AJ:75:CYS:SG	2.76	0.43
2:C8:152:TYR:CE1	3:D8:60:PRO:CG	3.01	0.43
2:C2:152:TYR:OH	3:D2:60:PRO:HD3	2.17	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
2:CU:25:ASN:O	2:CU:26:SER:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CP:83:LEU:HA	2:CP:84:PRO:HA	1.60	0.43
2:CU:157:VAL:HG23	3:EB:50:THR:HG21	229.15	0.43
2:CX:157:VAL:HG23	3:DX:50:THR:HG21	1.99	0.43
1:AG:79:PHE:CD1	1:AG:79:PHE:C	2.92	0.43
1:AF:79:PHE:CD1	1:AF:79:PHE:C	2.92	0.43
1:AS:79:PHE:C	1:AS:79:PHE:CD1	2.92	0.43
1:AX:79:PHE:C	1:AX:79:PHE:CD1	2.92	0.43
3:DP:75:GLN:NE2	3:DP:184:GLN:OE1	2.49	0.43
3:DU:56:ILE:CG1	3:DU:74:PHE:CE1	2.98	0.43
1:A0:174:TRP:HB2	2:C1:188:LEU:CD2	2.44	0.43
1:AV:219:TYR:HD2	3:DW:39:ARG:HB2	1.79	0.43
3:D2:56:ILE:CG1	3:D2:74:PHE:CE1	2.98	0.43
2:C3:78:ALA:HB1	2:C3:195:VAL:HG12	1.99	0.43
2:C4:157:VAL:HG23	3:D4:50:THR:HG21	1.99	0.43
1:A1:62:SER:O	1:A1:63:THR:CB	2.66	0.43
1:BE:62:SER:O	1:BE:63:THR:CB	2.66	0.43
1:AC:62:SER:O	1:AC:63:THR:CB	2.66	0.43
1:AI:62:SER:O	1:AI:63:THR:CB	2.66	0.43
2:C0:140:LEU:HD22	2:C0:190:ASN:CG	2.38	0.43
2:C7:54:LEU:HD21	2:C7:97:VAL:HG11	1.99	0.43
3:DH:217:ARG:HD3	3:DH:218:HIS:CD2	2.54	0.43
3:D2:97:PHE:HB3	3:D2:218:HIS:O	2.17	0.43
2:C6:54:LEU:HB2	2:C6:220:ALA:HB3	1.99	0.43
2:CZ:54:LEU:HB2	2:CZ:220:ALA:HB3	1.99	0.43
2:CZ:54:LEU:HD21	2:CZ:97:VAL:HG11	1.99	0.43
3:DP:217:ARG:HD3	3:DP:218:HIS:CD2	2.54	0.43
3:D1:217:ARG:HD3	3:D1:218:HIS:CD2	2.54	0.43
3:DJ:217:ARG:HD3	3:DJ:218:HIS:CD2	2.54	0.43
3:D0:97:PHE:HB3	3:D0:218:HIS:O	2.17	0.43
1:BE:242:ASN:ND2	1:BI:110:GLY:H	2.12	0.43
1:A3:109:VAL:HG22	1:A3:191:HIS:HD2	1.82	0.43
1:BH:109:VAL:HG22	1:BH:191:HIS:HD2	1.82	0.43
1:A0:224:ILE:HA	1:A0:225:PRO:HD2	1.86	0.43
2:C3:129:VAL:HA	2:C3:130:PRO:HD3	1.78	0.43
2:C5:39:PRO:HB3	2:C5:176:PRO:HA	1.99	0.43
2:CK:36:TYR:CE2	2:CK:130:PRO:CG	2.98	0.43
1:AI:176:ALA:C	1:AI:178:THR:H	2.22	0.43
1:AL:176:ALA:C	1:AL:178:THR:H	2.22	0.43
1:AG:176:ALA:C	1:AG:178:THR:H	2.22	0.43
2:CF:39:PRO:HB3	2:CF:176:PRO:HA	1.99	0.43
1:BH:176:ALA:C	1:BH:178:THR:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:179:VAL:HG12	3:DZ:181:GLY:N	2.32	0.43
3:DV:175:THR:OG1	3:DV:178:ASN:ND2	2.51	0.43
1:AR:55:HIS:O	1:AR:194:SER:HB2	2.18	0.43
1:AE:55:HIS:O	1:AE:194:SER:HB2	2.17	0.43
1:AO:55:HIS:O	1:AO:194:SER:HB2	2.17	0.43
1:AA:55:HIS:O	1:AA:194:SER:HB2	2.18	0.43
1:A0:55:HIS:O	1:A0:194:SER:HB2	2.18	0.43
1:A2:55:HIS:O	1:A2:194:SER:HB2	2.18	0.43
1:AP:109:VAL:HG22	1:AP:191:HIS:HD2	1.82	0.43
1:A1:109:VAL:HG22	1:A1:191:HIS:HD2	1.82	0.43
3:D1:79:SER:O	3:D1:81:SER:N	2.51	0.43
1:AB:26:VAL:HG12	1:AB:27:HIS:N	2.32	0.43
1:AI:26:VAL:HG12	1:AI:27:HIS:N	2.32	0.43
1:A2:26:VAL:HG12	1:A2:27:HIS:N	2.32	0.43
1:BD:22:VAL:HG12	1:BD:23:ASP:N	2.33	0.43
3:EE:84:GLU:CD	3:EE:84:GLU:H	2.21	0.43
1:A9:22:VAL:HG12	1:A9:23:ASP:N	2.33	0.43
1:AA:201:ALA:O	1:AA:202:HIS:HD2	2.01	0.43
1:BF:201:ALA:O	1:BF:202:HIS:CD2	2.71	0.43
1:A2:201:ALA:O	1:A2:202:HIS:HD2	2.01	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:AN:92:THR:HB	1:AN:93:THR:H	1.62	0.43
3:DT:134:THR:OG1	3:DT:137:GLU:HG3	2.17	0.43
2:CS:34:TYR:HA	2:CS:174:VAL:O	2.18	0.43
3:DF:134:THR:OG1	3:DF:137:GLU:HG3	2.17	0.43
2:CP:22:THR:HG23	2:CP:22:THR:O	2.18	0.43
2:C6:22:THR:HG23	2:C6:22:THR:O	2.18	0.43
2:CZ:22:THR:O	2:CZ:22:THR:HG23	2.18	0.43
2:CD:22:THR:O	2:CD:22:THR:HG23	2.18	0.43
2:C8:207:GLN:HB3	3:D9:196:ILE:HG21	2.00	0.43
2:CJ:117:SER:HB3	3:DA:192:THR:CG2	2.48	0.43
2:CJ:207:GLN:HB3	3:DA:196:ILE:HG21	2.01	0.43
2:CJ:116:ALA:N	3:DA:119:LYS:NZ	2.66	0.43
3:DM:119:LYS:O	3:DM:120:PHE:CB	2.67	0.43
3:DH:119:LYS:O	3:DH:120:PHE:CB	2.67	0.43
2:CU:212:THR:HG23	3:DG:188:LEU:HD22	239.39	0.43
2:CD:207:GLN:HB3	3:D7:196:ILE:HG21	2.01	0.43
3:DO:119:LYS:O	3:DO:120:PHE:CB	2.67	0.43
3:DQ:119:LYS:O	3:DQ:120:PHE:CB	2.67	0.43
3:D2:119:LYS:O	3:D2:120:PHE:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:117:SER:HB3	3:DF:192:THR:CG2	2.48	0.43
2:CN:49:ASP:HA	2:CN:50:PRO:HD2	1.80	0.43
2:CK:46:THR:CG2	3:DL:165:ASP:HA	2.38	0.43
2:CW:46:THR:CG2	3:DX:165:ASP:HA	2.38	0.43
3:EA:101:ARG:HG2	3:EA:101:ARG:O	2.17	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:AE:137:GLY:HA2	1:AF:38:PHE:CD1	104.42	0.43
1:BC:40:VAL:HB	1:BC:68:TRP:CH2	2.53	0.43
1:BD:146:ILE:O	1:BD:146:ILE:HG22	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
3:DP:8:VAL:CG1	3:DP:9:PRO:HD2	2.39	0.43
1:AK:74:THR:O	1:AK:74:THR:HG22	2.19	0.43
1:AD:74:THR:O	1:AD:74:THR:HG22	2.19	0.43
1:A7:40:VAL:HB	1:A7:68:TRP:CH2	2.53	0.43
1:AU:101:PHE:O	1:AU:199:SER:OG	2.33	0.43
1:A0:101:PHE:CD2	1:A0:143:VAL:CG1	2.91	0.43
1:A6:146:ILE:O	1:A6:146:ILE:HG22	2.17	0.43
1:A6:40:VAL:HB	1:A6:68:TRP:CH2	2.53	0.43
1:AI:172:ASN:HB2	2:CK:132:TYR:O	269.22	0.43
2:CG:140:LEU:HD22	2:CG:190:ASN:CG	2.38	0.43
2:CK:140:LEU:HD22	2:CK:190:ASN:CG	2.38	0.43
1:A6:181:LYS:O	1:A6:182:ALA:CB	2.66	0.43
2:C7:140:LEU:HD22	2:C7:190:ASN:CG	2.38	0.43
1:BH:172:ASN:HB2	2:CW:132:TYR:O	232.59	0.43
1:AP:52:PRO:HD3	1:AP:115:THR:O	2.17	0.43
2:CF:57:THR:O	2:CF:58:LEU:CB	2.66	0.43
2:CD:57:THR:O	2:CD:58:LEU:CB	2.66	0.43
1:AR:49:THR:HG22	1:AR:50:GLY:H	1.82	0.43
2:CO:57:THR:O	2:CO:58:LEU:CB	2.66	0.43
1:A5:52:PRO:HD3	1:A5:115:THR:O	2.17	0.43
1:AU:49:THR:HG22	1:AU:50:GLY:H	1.82	0.43
2:CX:160:HIS:HE2	3:EE:51:TYR:HE1	167.81	0.43
2:CP:152:TYR:HB3	2:CP:197:LEU:HD22	2.00	0.43
2:CM:152:TYR:CE1	3:DM:60:PRO:CG	3.01	0.43
2:C9:25:ASN:O	2:C9:26:SER:HB3	2.18	0.43
2:CJ:153:GLN:CD	3:DJ:55:SER:HB2	2.39	0.43
2:CJ:152:TYR:CE1	3:DJ:60:PRO:CG	3.01	0.43
2:CG:152:TYR:CE1	3:DG:60:PRO:CG	3.01	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)
2:C3:152:TYR:CE1	3:D3:60:PRO:CG	3.01	0.43
2:CR:152:TYR:OH	3:DR:60:PRO:HD3	2.17	0.43
2:CW:152:TYR:CE1	3:ED:60:PRO:CG	252.88	0.43
2:CK:152:TYR:HB3	2:CK:197:LEU:HD22	2.00	0.43
1:AJ:65:GLN:HG2	1:AJ:70:ARG:HD2	2.01	0.43
1:AC:65:GLN:HG2	1:AC:70:ARG:HD2	2.01	0.43
2:CS:152:TYR:HB3	2:CS:197:LEU:HD22	2.00	0.43
1:AF:72:LEU:O	1:AF:75:CYS:SG	2.76	0.43
1:AL:220:CYS:HA	1:AL:221:PRO:HD2	1.82	0.43
2:CB:153:GLN:CD	3:DB:55:SER:HB2	2.39	0.43
1:AR:72:LEU:O	1:AR:75:CYS:SG	2.76	0.43
1:AY:30:VAL:HG13	1:AY:218:MET:CE	2.49	0.43
1:A4:170:PHE:CD2	1:A4:222:ARG:CZ	2.87	0.43
1:A4:30:VAL:HG13	1:A4:218:MET:CE	2.49	0.43
2:C6:152:TYR:HB3	2:C6:197:LEU:HD22	2.00	0.43
1:BG:170:PHE:CD2	1:BG:222:ARG:NH1	2.85	0.43
2:C2:153:GLN:CD	3:D2:55:SER:HB2	2.39	0.43
1:A9:65:GLN:HG2	1:A9:70:ARG:HD2	2.01	0.43
1:A0:220:CYS:HA	1:A0:221:PRO:HD2	1.82	0.43
1:AA:79:PHE:CD1	1:AA:79:PHE:C	2.92	0.43
1:AB:79:PHE:CD1	1:AB:79:PHE:C	2.92	0.43
1:AD:79:PHE:C	1:AD:79:PHE:CD1	2.92	0.43
1:AY:79:PHE:CD1	1:AY:79:PHE:C	2.92	0.43
2:CN:180:PRO:HD2	2:CN:189:HIS:HE1	1.76	0.43
2:C9:83:LEU:HA	2:C9:84:PRO:HA	1.60	0.43
2:CK:180:PRO:HD2	2:CK:189:HIS:HE1	1.76	0.43
1:BA:79:PHE:C	1:BA:79:PHE:CD1	2.92	0.43
1:A1:219:TYR:HD2	3:D2:39:ARG:HB2	1.79	0.43
1:A6:62:SER:HB2	1:A6:73:ASN:ND2	2.27	0.43
3:D8:75:GLN:NE2	3:D8:184:GLN:OE1	2.49	0.43
2:C9:135:THR:HG23	2:C9:145:LEU:HD11	1.98	0.43
1:A5:62:SER:O	1:A5:63:THR:CB	2.66	0.43
1:BC:174:TRP:HB2	2:CR:188:LEU:CD2	161.46	0.43
1:A5:181:LYS:O	1:A5:182:ALA:CB	2.66	0.43
3:DD:75:GLN:NE2	3:DD:184:GLN:OE1	2.49	0.43
1:BF:62:SER:O	1:BF:63:THR:CB	2.66	0.43
3:DL:75:GLN:NE2	3:DL:184:GLN:OE1	2.49	0.43
1:AX:62:SER:HB2	1:AX:73:ASN:ND2	2.27	0.43
2:CA:54:LEU:HB2	2:CA:220:ALA:HB3	1.99	0.43
3:DN:217:ARG:HD3	3:DN:218:HIS:CD2	2.54	0.43
3:EA:217:ARG:HD3	3:EA:218:HIS:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CP:103:LEU:HD21	3:DQ:163:PRO:HD3	2.01	0.43
2:C0:54:LEU:HD21	2:C0:97:VAL:HG11	1.99	0.43
3:DA:217:ARG:HD3	3:DA:218:HIS:CD2	2.54	0.43
3:D0:217:ARG:HD3	3:D0:218:HIS:CD2	2.54	0.43
3:DD:217:ARG:HD3	3:DD:218:HIS:CD2	2.54	0.43
3:DS:217:ARG:HD3	3:DS:218:HIS:CD2	2.54	0.43
3:DK:217:ARG:HD3	3:DK:218:HIS:CD2	2.54	0.43
2:CB:65:LYS:CB	3:DT:135:ARG:HH21	265.97	0.43
2:CI:65:LYS:CB	3:DX:135:ARG:HH21	2.29	0.43
1:A5:74:THR:HG22	1:A5:74:THR:O	2.19	0.43
2:CR:129:VAL:HA	2:CR:130:PRO:HD3	1.77	0.43
1:A9:176:ALA:C	1:A9:178:THR:H	2.22	0.43
1:AJ:176:ALA:C	1:AJ:178:THR:H	2.22	0.43
1:AD:176:ALA:C	1:AD:178:THR:H	2.22	0.43
1:BB:176:ALA:C	1:BB:178:THR:H	2.22	0.43
2:C6:39:PRO:HB3	2:C6:176:PRO:HA	1.99	0.43
1:A4:176:ALA:C	1:A4:178:THR:H	2.22	0.43
1:BE:176:ALA:C	1:BE:178:THR:H	2.22	0.43
3:D6:175:THR:OG1	3:D6:178:ASN:ND2	2.51	0.43
1:A7:109:VAL:HG22	1:A7:191:HIS:HD2	1.82	0.43
1:AX:55:HIS:O	1:AX:194:SER:HB2	2.18	0.43
3:DH:79:SER:O	3:DH:81:SER:N	2.51	0.43
1:AT:26:VAL:HG12	1:AT:27:HIS:N	2.32	0.43
1:AW:26:VAL:HG12	1:AW:27:HIS:N	2.32	0.43
1:AP:26:VAL:HG12	1:AP:27:HIS:N	2.32	0.43
1:AC:26:VAL:HG12	1:AC:27:HIS:N	2.32	0.43
1:AQ:22:VAL:HG12	1:AQ:23:ASP:N	2.33	0.43
1:BI:22:VAL:HG12	1:BI:23:ASP:N	2.33	0.43
3:D5:84:GLU:H	3:D5:84:GLU:CD	2.20	0.43
3:DH:84:GLU:H	3:DH:84:GLU:CD	2.21	0.43
1:AU:201:ALA:O	1:AU:202:HIS:CD2	2.71	0.43
1:AT:22:VAL:HG12	1:AT:23:ASP:N	2.33	0.43
1:AQ:201:ALA:O	1:AQ:202:HIS:HD2	2.01	0.43
1:AE:201:ALA:O	1:AE:202:HIS:HD2	2.01	0.43
1:AV:201:ALA:O	1:AV:202:HIS:CD2	2.71	0.43
4:FE:18:SER:O	4:FE:23:GLN:NE2	2.52	0.43
4:FD:18:SER:O	4:FD:23:GLN:NE2	2.52	0.43
1:BA:201:ALA:O	1:BA:202:HIS:CD2	2.71	0.43
4:FR:18:SER:O	4:FR:23:GLN:NE2	2.52	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:201:ALA:O	1:A3:202:HIS:CD2	2.71	0.43
4:FA:18:SER:O	4:FA:23:GLN:NE2	2.52	0.43
2:CU:34:TYR:HA	2:CU:174:VAL:O	2.18	0.43
2:C1:34:TYR:HA	2:C1:174:VAL:O	2.18	0.43
1:A8:92:THR:HB	1:A8:93:THR:H	1.62	0.43
1:A4:56:VAL:HG13	1:A4:193:GLY:O	2.17	0.43
2:CA:22:THR:O	2:CA:22:THR:HG23	2.18	0.43
2:CS:22:THR:O	2:CS:22:THR:HG23	2.18	0.43
2:CC:117:SER:HB3	3:ED:192:THR:CG2	256.93	0.43
3:DN:119:LYS:O	3:DN:120:PHE:CB	2.67	0.43
2:CC:116:ALA:N	3:ED:119:LYS:NZ	250.03	0.43
3:ED:119:LYS:O	3:ED:120:PHE:CB	2.67	0.43
2:CV:116:ALA:N	3:DD:119:LYS:NZ	151.32	0.43
2:CL:117:SER:HB3	3:DK:192:THR:CG2	109.01	0.43
3:DK:119:LYS:O	3:DK:120:PHE:CB	2.67	0.43
2:CD:116:ALA:N	3:D7:119:LYS:NZ	2.66	0.43
2:CX:207:GLN:HB3	3:DR:196:ILE:HG21	166.96	0.43
2:C1:116:ALA:N	3:DO:119:LYS:NZ	2.66	0.43
2:C1:212:THR:HG23	3:DO:188:LEU:HD22	1.96	0.43
2:C1:207:GLN:HB3	3:DO:196:ILE:HG21	2.01	0.43
3:DR:119:LYS:O	3:DR:120:PHE:CB	2.67	0.43
2:CA:207:GLN:HB3	3:DW:196:ILE:HG21	2.01	0.43
2:C6:207:GLN:HB3	3:DE:196:ILE:HG21	2.00	0.43
2:CF:207:GLN:HB3	3:D6:196:ILE:HG21	2.01	0.43
2:CF:212:THR:HG23	3:DV:188:LEU:HD22	190.52	0.43
2:CF:207:GLN:HB3	3:DV:196:ILE:HG21	187.96	0.43
3:EC:119:LYS:O	3:EC:120:PHE:CB	2.67	0.43
3:EB:103:SER:HB2	3:EB:159:PRO:HA	1.95	0.43
1:A8:40:VAL:HB	1:A8:68:TRP:CH2	2.53	0.43
1:AL:40:VAL:HB	1:AL:68:TRP:CH2	2.53	0.43
1:AP:146:ILE:HG22	1:AP:146:ILE:O	2.17	0.43
1:AR:201:ALA:O	1:AR:202:HIS:CD2	2.71	0.43
1:AT:40:VAL:HB	1:AT:68:TRP:CH2	2.53	0.43
1:AW:87:GLN:O	1:AW:88:PHE:CB	2.62	0.43
1:BE:201:ALA:O	1:BE:202:HIS:CD2	2.71	0.43
1:BG:146:ILE:O	1:BG:146:ILE:HG22	2.17	0.43
1:AA:74:THR:O	1:AA:74:THR:HG22	2.19	0.43
1:AM:74:THR:O	1:AM:74:THR:HG22	2.19	0.43
1:AN:74:THR:O	1:AN:74:THR:HG22	2.19	0.43
3:ED:7:SER:OG	3:ED:11:SER:HB3	2.17	0.43
1:A0:137:GLY:HA2	1:A1:38:PHE:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:201:ALA:O	1:A1:202:HIS:HD2	2.01	0.43
1:AA:172:ASN:HB2	2:CA:132:TYR:O	2.19	0.43
1:AI:184:TYR:HE2	2:CI:139:ALA:HB3	1.84	0.43
1:AM:172:ASN:HB2	2:CO:132:TYR:O	97.37	0.43
1:AN:184:TYR:HE2	2:CB:139:ALA:HB3	206.85	0.43
1:A2:172:ASN:HB2	2:C3:132:TYR:O	2.19	0.43
1:AV:172:ASN:HB2	2:CW:132:TYR:O	2.19	0.43
1:AX:172:ASN:HB2	2:CY:132:TYR:O	2.19	0.43
1:AG:115:THR:HG23	1:AG:133:LEU:N	2.25	0.43
1:AJ:49:THR:HG22	1:AJ:50:GLY:H	1.82	0.43
1:BE:208:TYR:CE2	1:BI:103:TRP:CZ2	3.06	0.43
2:CE:57:THR:HG22	2:CE:58:LEU:H	1.82	0.43
2:CP:140:LEU:HD22	2:CP:190:ASN:CG	2.38	0.43
1:AY:52:PRO:HD3	1:AY:115:THR:O	2.17	0.43
2:CM:153:GLN:CD	3:DM:55:SER:HB2	2.39	0.43
2:CV:153:GLN:CD	3:EC:55:SER:HB2	263.31	0.43
2:CL:152:TYR:CE1	3:DL:60:PRO:CG	3.01	0.43
2:CL:153:GLN:CD	3:DL:55:SER:HB2	2.39	0.43
1:AK:30:VAL:HG13	1:AK:218:MET:CE	2.49	0.43
2:CS:152:TYR:CE1	3:DS:60:PRO:CG	3.01	0.43
2:CB:152:TYR:HB3	2:CB:197:LEU:HD22	2.00	0.43
2:CO:153:GLN:CD	3:DO:55:SER:HB2	2.39	0.43
2:CC:153:GLN:CD	3:DC:55:SER:HB2	2.39	0.43
2:CL:25:ASN:O	2:CL:26:SER:HB3	2.18	0.43
1:BF:30:VAL:HG13	1:BF:218:MET:CE	2.49	0.43
2:CZ:25:ASN:O	2:CZ:26:SER:HB3	2.18	0.43
2:C0:152:TYR:CE1	3:D0:60:PRO:CG	3.01	0.43
1:BI:65:GLN:HG2	1:BI:70:ARG:HD2	2.01	0.43
1:AY:65:GLN:HG2	1:AY:70:ARG:HD2	2.01	0.43
2:CT:157:VAL:HG23	3:EA:50:THR:HG21	176.24	0.43
2:C7:157:VAL:HG23	3:D7:50:THR:HG21	1.99	0.43
1:AC:79:PHE:C	1:AC:79:PHE:CD1	2.92	0.43
1:AI:79:PHE:C	1:AI:79:PHE:CD1	2.92	0.43
1:AK:79:PHE:C	1:AK:79:PHE:CD1	2.92	0.43
1:BH:62:SER:O	1:BH:63:THR:CB	2.66	0.43
1:AR:181:LYS:O	1:AR:182:ALA:CB	2.66	0.43
1:AS:62:SER:O	1:AS:63:THR:CB	2.66	0.43
1:AZ:181:LYS:O	1:AZ:182:ALA:CB	2.66	0.43
1:A2:79:PHE:CD1	1:A2:79:PHE:C	2.92	0.43
1:A3:62:SER:O	1:A3:63:THR:CB	2.66	0.43
1:AV:62:SER:O	1:AV:63:THR:CB	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:62:SER:O	1:AZ:63:THR:CB	2.66	0.43
1:AT:62:SER:O	1:AT:63:THR:CB	2.66	0.43
2:CE:103:LEU:HD21	3:DF:163:PRO:HD3	37.48	0.43
3:DF:217:ARG:HD3	3:DF:218:HIS:CD2	2.54	0.43
3:D9:217:ARG:HD3	3:D9:218:HIS:CD2	2.54	0.43
2:C6:103:LEU:HD21	3:D7:163:PRO:HD3	2.01	0.43
2:CL:103:LEU:HD21	3:DM:163:PRO:HD3	2.01	0.43
3:DI:217:ARG:HD3	3:DI:218:HIS:CD2	2.54	0.43
3:DV:217:ARG:HD3	3:DV:218:HIS:CD2	2.54	0.43
3:DG:217:ARG:HD3	3:DG:218:HIS:CD2	2.54	0.43
3:DC:217:ARG:HD3	3:DC:218:HIS:CD2	2.54	0.43
3:DL:217:ARG:HD3	3:DL:218:HIS:CD2	2.54	0.43
3:DW:217:ARG:HD3	3:DW:218:HIS:CD2	2.54	0.43
3:D3:97:PHE:HB3	3:D3:218:HIS:O	2.17	0.43
3:EC:217:ARG:HD3	3:EC:218:HIS:CD2	2.54	0.43
2:CE:65:LYS:CB	3:DF:135:ARG:HH21	2.29	0.43
2:CO:65:LYS:CB	3:DR:135:ARG:HH21	147.67	0.43
1:BC:74:THR:O	1:BC:74:THR:HG22	2.19	0.43
1:BB:74:THR:O	1:BB:74:THR:HG22	2.19	0.43
1:AT:176:ALA:C	1:AT:178:THR:H	2.22	0.43
2:CP:39:PRO:HB3	2:CP:176:PRO:HA	1.99	0.43
2:CA:129:VAL:HA	2:CA:130:PRO:HD3	1.78	0.43
1:A0:176:ALA:C	1:A0:178:THR:H	2.22	0.43
1:AP:176:ALA:C	1:AP:178:THR:H	2.22	0.43
1:AV:55:HIS:O	1:AV:194:SER:HB2	2.18	0.43
3:DD:79:SER:O	3:DD:81:SER:N	2.51	0.43
2:C6:140:LEU:HD22	2:C6:190:ASN:CG	2.38	0.43
1:BE:26:VAL:HG12	1:BE:27:HIS:N	2.32	0.43
1:AR:26:VAL:HG12	1:AR:27:HIS:N	2.32	0.43
1:A0:26:VAL:HG12	1:A0:27:HIS:N	2.32	0.43
1:BC:26:VAL:HG12	1:BC:27:HIS:N	2.32	0.43
3:D4:84:GLU:CD	3:D4:84:GLU:H	2.21	0.43
3:D7:84:GLU:H	3:D7:84:GLU:CD	2.21	0.43
3:DP:84:GLU:H	3:DP:84:GLU:CD	2.21	0.43
3:DK:84:GLU:CD	3:DK:84:GLU:H	2.21	0.43
1:A5:22:VAL:HG12	1:A5:23:ASP:N	2.33	0.43
1:AP:22:VAL:HG12	1:AP:23:ASP:N	2.33	0.43
1:AY:201:ALA:O	1:AY:202:HIS:HD2	2.01	0.43
4:FC:18:SER:O	4:FC:23:GLN:NE2	2.52	0.43
4:FQ:18:SER:O	4:FQ:23:GLN:NE2	2.52	0.43
4:FJ:18:SER:O	4:FJ:23:GLN:NE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F1:18:SER:O	4:F1:23:GLN:NE2	2.52	0.43
4:F0:18:SER:O	4:F0:23:GLN:NE2	2.52	0.43
4:F8:18:SER:O	4:F8:23:GLN:NE2	2.52	0.43
1:AE:144:PHE:CD2	1:AE:154:CYS:HB3	2.54	0.43
1:AY:144:PHE:CD2	1:AY:154:CYS:HB3	2.54	0.43
1:AG:144:PHE:CD2	1:AG:154:CYS:HB3	2.54	0.43
1:AQ:144:PHE:CD2	1:AQ:154:CYS:HB3	2.54	0.43
2:CD:42:ARG:HA	2:CD:43:PRO:HD2	1.64	0.43
1:BH:144:PHE:CD2	1:BH:154:CYS:HB3	2.54	0.43
1:A0:234:LYS:HD3	1:A0:234:LYS:HA	1.89	0.43
2:CO:22:THR:O	2:CO:22:THR:HG23	2.19	0.43
2:CR:22:THR:O	2:CR:22:THR:HG23	2.18	0.43
3:DZ:134:THR:OG1	3:DZ:137:GLU:HG3	2.17	0.43
1:AK:144:PHE:CD2	1:AK:154:CYS:HB3	2.54	0.43
2:CW:42:ARG:HA	2:CW:43:PRO:HD2	1.64	0.43
2:C6:34:TYR:HA	2:C6:174:VAL:O	2.18	0.43
3:D9:119:LYS:O	3:D9:120:PHE:CB	2.67	0.43
3:DJ:119:LYS:O	3:DJ:120:PHE:CB	2.67	0.43
2:CK:207:GLN:HB3	3:DA:196:ILE:HG21	293.28	0.43
3:DD:119:LYS:O	3:DD:120:PHE:CB	2.67	0.43
2:CV:207:GLN:HB3	3:DD:196:ILE:HG21	162.63	0.43
2:C5:117:SER:HB3	3:DG:192:THR:CG2	2.47	0.43
2:CU:116:ALA:N	3:DG:119:LYS:NZ	248.41	0.43
2:CU:207:GLN:HB3	3:DG:196:ILE:HG21	268.94	0.43
3:D4:119:LYS:O	3:D4:120:PHE:CB	2.67	0.43
3:DP:119:LYS:O	3:DP:120:PHE:CB	2.67	0.43
3:DL:119:LYS:O	3:DL:120:PHE:CB	2.67	0.43
2:CN:116:ALA:N	3:DE:119:LYS:NZ	257.61	0.43
2:CY:207:GLN:HB3	3:DZ:196:ILE:HG21	2.01	0.43
3:DC:119:LYS:O	3:DC:120:PHE:CB	2.67	0.43
3:DV:119:LYS:O	3:DV:120:PHE:CB	2.67	0.43
1:A8:13:THR:C	1:A8:14:GLU:HG3	2.38	0.43
1:AP:13:THR:C	1:AP:14:GLU:HG3	2.37	0.43
3:DC:101:ARG:HH12	3:DC:165:ASP:HB3	1.84	0.43
2:C4:49:ASP:HA	2:C4:50:PRO:HD2	1.81	0.43
1:AW:13:THR:C	1:AW:14:GLU:HG3	2.38	0.43
2:CX:49:ASP:HA	2:CX:50:PRO:HD2	1.80	0.43
1:AF:143:VAL:H	3:DI:14:PHE:CB	32.83	0.43
1:AH:40:VAL:HB	1:AH:68:TRP:CH2	2.53	0.43
1:AM:40:VAL:HB	1:AM:68:TRP:CH2	2.54	0.43
1:AQ:106:TRP:CZ2	1:AQ:158:VAL:HG13	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:106:TRP:CZ2	1:AS:158:VAL:HG13	2.54	0.43
3:DL:8:VAL:CG1	3:DL:9:PRO:HD2	2.39	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
1:BA:74:THR:O	1:BA:74:THR:HG22	2.19	0.43
1:AV:146:ILE:HG22	1:AV:146:ILE:O	2.17	0.43
1:A4:40:VAL:HB	1:A4:68:TRP:CH2	2.53	0.43
1:A5:40:VAL:HB	1:A5:68:TRP:CH2	2.53	0.43
3:DZ:8:VAL:CG1	3:DZ:9:PRO:HD2	2.39	0.43
1:AY:143:VAL:H	3:D0:14:PHE:CB	2.28	0.43
1:AA:184:TYR:HE2	2:CC:139:ALA:HB3	105.63	0.43
1:AC:184:TYR:HE2	2:CE:139:ALA:HB3	105.63	0.43
2:CB:140:LEU:HD22	2:CB:190:ASN:CG	2.38	0.43
1:A7:174:TRP:HB2	2:C8:188:LEU:CD2	2.44	0.43
1:AZ:172:ASN:HB2	2:C0:132:TYR:O	2.19	0.43
1:A1:172:ASN:HB2	2:C2:132:TYR:O	2.19	0.43
2:C9:57:THR:O	2:C9:59:SER:N	2.52	0.43
2:CH:55:GLY:HA2	2:CH:56:PRO:HD3	1.80	0.43
1:AD:115:THR:HG23	1:AD:133:LEU:N	2.25	0.43
2:C5:57:THR:O	2:C5:59:SER:N	2.52	0.43
1:AJ:103:TRP:CZ2	1:AK:208:TYR:CE2	286.07	0.43
1:AR:52:PRO:HD3	1:AR:115:THR:O	2.17	0.43
2:CB:57:THR:O	2:CB:59:SER:N	2.52	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:CQ:57:THR:HG22	2:CQ:58:LEU:H	1.82	0.43
2:CQ:57:THR:O	2:CQ:59:SER:N	2.52	0.43
1:BA:174:TRP:HB2	2:CP:188:LEU:CD2	104.71	0.43
1:AP:184:TYR:HE2	2:CP:139:ALA:HB3	1.84	0.43
2:CU:160:HIS:HE2	3:DU:51:TYR:HE1	1.65	0.43
2:CP:153:GLN:CD	3:DP:55:SER:HB2	2.39	0.43
2:CY:153:GLN:CD	3:DY:55:SER:HB2	2.39	0.43
2:CN:153:GLN:CD	3:DN:55:SER:HB2	2.39	0.43
2:CF:153:GLN:CD	3:DF:55:SER:HB2	2.39	0.43
2:CT:153:GLN:CD	3:EA:55:SER:HB2	190.55	0.43
2:CH:25:ASN:O	2:CH:26:SER:HB3	2.18	0.43
1:AI:30:VAL:HG13	1:AI:218:MET:CE	2.49	0.43
2:CR:153:GLN:CD	3:DR:55:SER:HB2	2.39	0.43
1:AA:65:GLN:HG2	1:AA:70:ARG:HD2	2.01	0.43
2:CS:153:GLN:CD	3:DS:55:SER:HB2	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:30:VAL:HG13	1:AH:218:MET:CE	2.49	0.43
1:AL:72:LEU:O	1:AL:75:CYS:SG	2.76	0.43
1:AM:65:GLN:HG2	1:AM:70:ARG:HD2	2.01	0.43
1:BE:65:GLN:HG2	1:BE:70:ARG:HD2	2.01	0.43
1:A8:30:VAL:HG13	1:A8:218:MET:CE	2.49	0.43
1:A5:220:CYS:HA	1:A5:221:PRO:HD2	1.82	0.43
1:AY:72:LEU:O	1:AY:75:CYS:SG	2.76	0.43
2:CR:25:ASN:O	2:CR:26:SER:HB3	2.18	0.43
1:AZ:220:CYS:HA	1:AZ:221:PRO:HD2	1.82	0.43
1:A4:65:GLN:HG2	1:A4:70:ARG:HD2	2.01	0.43
1:BE:30:VAL:HG13	1:BE:218:MET:CE	2.49	0.43
1:A5:65:GLN:HG2	1:A5:70:ARG:HD2	2.01	0.43
2:C0:84:PRO:HD2	2:C0:186:LEU:CD2	2.48	0.43
2:C7:158:PHE:O	2:C7:159:PRO:C	2.55	0.43
1:AO:79:PHE:CD1	1:AO:79:PHE:C	2.92	0.43
1:AH:79:PHE:C	1:AH:79:PHE:CD1	2.92	0.43
2:CZ:157:VAL:HG23	3:DZ:50:THR:HG21	1.99	0.43
1:A6:79:PHE:C	1:A6:79:PHE:CD1	2.92	0.43
1:A5:62:SER:HB2	1:A5:73:ASN:ND2	2.27	0.43
2:C3:140:LEU:HD22	2:C3:190:ASN:CG	2.38	0.43
2:CR:140:LEU:HD22	2:CR:190:ASN:CG	2.39	0.43
3:DI:75:GLN:NE2	3:DI:184:GLN:OE1	2.49	0.43
2:CO:54:LEU:HD21	2:CO:97:VAL:HG11	1.99	0.43
2:C9:54:LEU:HD21	2:C9:97:VAL:HG11	1.99	0.43
2:CT:54:LEU:HD21	2:CT:97:VAL:HG11	1.99	0.43
2:CN:54:LEU:HB2	2:CN:220:ALA:HB3	1.99	0.43
2:CS:103:LEU:HD21	3:DT:163:PRO:HD3	2.01	0.43
1:AV:110:GLY:H	1:AW:242:ASN:ND2	2.12	0.43
1:AI:109:VAL:HG22	1:AI:191:HIS:HD2	1.82	0.43
1:A9:109:VAL:HG22	1:A9:191:HIS:HD2	1.82	0.43
2:CA:103:LEU:HD21	3:DB:163:PRO:HD3	2.01	0.43
1:A4:110:GLY:H	1:A5:242:ASN:ND2	2.12	0.43
2:CV:65:LYS:CB	3:DB:135:ARG:HH21	2.29	0.43
2:C8:65:LYS:CB	3:D9:135:ARG:HH21	2.29	0.43
2:C5:103:LEU:HD21	3:D6:163:PRO:HD3	2.01	0.43
1:AX:74:THR:HG22	1:AX:74:THR:O	2.19	0.43
1:BE:74:THR:HG22	1:BE:74:THR:O	2.19	0.43
1:AN:176:ALA:C	1:AN:178:THR:H	2.22	0.43
2:C8:129:VAL:HA	2:C8:130:PRO:HD3	1.77	0.43
1:AM:176:ALA:C	1:AM:178:THR:H	2.22	0.43
1:AS:176:ALA:C	1:AS:178:THR:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:176:ALA:C	1:A5:178:THR:H	2.22	0.43
3:DK:179:VAL:HG12	3:DK:181:GLY:N	2.32	0.43
3:D9:179:VAL:HG12	3:D9:181:GLY:N	2.32	0.43
3:DA:175:THR:HG1	3:DA:178:ASN:ND2	2.16	0.43
1:BF:55:HIS:O	1:BF:194:SER:HB2	2.18	0.43
1:AP:55:HIS:O	1:AP:194:SER:HB2	2.18	0.43
3:DN:79:SER:O	3:DN:81:SER:N	2.51	0.43
3:DR:79:SER:O	3:DR:81:SER:N	2.51	0.43
1:A9:26:VAL:HG12	1:A9:27:HIS:N	2.32	0.43
3:DB:84:GLU:CD	3:DB:84:GLU:H	2.21	0.43
1:BB:201:ALA:O	1:BB:202:HIS:CD2	2.71	0.43
4:FB:18:SER:O	4:FB: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:F6:18:SER:O	4:F6:23:GLN:NE2	2.52	0.43
4:F2:18:SER:O	4:F2:23:GLN:NE2	2.52	0.43
4:F9:18:SER:O	4:F9:23:GLN:NE2	2.52	0.43
1:AO:92:THR:HB	1:AO:93:THR:H	1.62	0.43
1:AX:144:PHE:CD2	1:AX:154:CYS:HB3	2.54	0.43
2:CI:42:ARG:HA	2:CI:43:PRO:HD2	1.65	0.43
2:C3:34:TYR:HA	2:C3:174:VAL:O	2.18	0.43
2:CE:22:THR:O	2:CE:22:THR:HG23	2.18	0.43
2:CW:22:THR:HG23	2:CW:22:THR:O	2.18	0.43
2:CI:22:THR:HG23	2:CI:22:THR:O	2.18	0.43
2:C0:22:THR:O	2:C0:22:THR:HG23	2.18	0.43
2:C1:22:THR:O	2:C1:22:THR:HG23	2.19	0.43
1:AC:144:PHE:CD2	1:AC:154:CYS:HB3	2.54	0.43
1:BC:92:THR:HB	1:BC:93:THR:H	1.62	0.43
2:C8:116:ALA:N	3:D9:119:LYS:NZ	2.66	0.43
2:CW:207:GLN:HB3	3:DS:196:ILE:HG21	269.40	0.43
2:CC:207:GLN:HB3	3:ED:196:ILE:HG21	269.40	0.43
2:CK:207:GLN:HB3	3:DB:196:ILE:HG21	276.00	0.43
3:DA:119:LYS:O	3:DA:120:PHE:CB	2.67	0.43
2:CR:116:ALA:N	3:DI:119:LYS:NZ	159.95	0.43
2:CT:207:GLN:HB3	3:DK:196:ILE:HG21	2.01	0.43
2:C2:116:ALA:N	3:DH:119:LYS:NZ	256.87	0.43
2:C2:212:THR:HG23	3:DH:188:LEU:HD22	255.93	0.43
2:CU:207:GLN:HB3	3:D5:196:ILE:HG21	276.00	0.43
3:D7:119:LYS:O	3:D7:120:PHE:CB	2.67	0.43
2:CQ:116:ALA:N	3:DP:119:LYS:NZ	107.95	0.43
2:C9:116:ALA:N	3:DL:119:LYS:NZ	91.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DZ:119:LYS:O	3:DZ:120:PHE:CB	2.67	0.43
2:C3:116:ALA:N	3:DU:119:LYS:NZ	2.66	0.43
3:DF:119:LYS:O	3:DF:120:PHE:CB	2.67	0.43
2:CP:117:SER:HB3	3:D1:192:THR:CG2	2.47	0.43
2:CF:116:ALA:N	3:D6:119:LYS:NZ	2.66	0.43
2:CF:116:ALA:N	3:DV:119:LYS:NZ	177.27	0.43
2:C4:116:ALA:N	3:EC:119:LYS:NZ	2.66	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
1:A4:13:THR:C	1:A4:14:GLU:HG3	2.38	0.43
3:DV:101:ARG:HH12	3:DV:165:ASP:HB3	1.84	0.43
3:EC:101:ARG:HH12	3:EC:165:ASP:HB3	1.84	0.43
1:AL:143:VAL:H	3:DJ:14:PHE:CB	269.84	0.43
1:AL:106:TRP:CZ2	1:AL:158:VAL:HG13	2.54	0.43
1:AN:106:TRP:CZ2	1:AN:158:VAL:HG13	2.54	0.43
1:AW:121:LEU:HD21	1:AX:206:GLY:CA	2.47	0.43
1:AW:101:PHE:CD2	1:AW:143:VAL:HG11	2.44	0.43
1:BA:101:PHE:CD2	1:BA:143:VAL:CG1	2.91	0.43
1:AM:206:GLY:CA	1:BD:121:LEU:HD21	249.39	0.43
3:D9:8:VAL:CG1	3:D9:9:PRO:HD2	2.40	0.43
1:BI:74:THR:HG22	1:BI:74:THR:O	2.19	0.43
1:A9:74:THR:HG22	1:A9:74:THR:O	2.19	0.43
1:AE:74:THR:HG22	1:AE:74:THR:O	2.19	0.43
1:BH:40:VAL:HB	1:BH:68:TRP:CH2	2.53	0.43
1:A4:146:ILE:HG22	1:A4:146:ILE:O	2.17	0.43
1:A1:201:ALA:O	1:A1:202:HIS:CD2	2.71	0.43
1:AY:40:VAL:HB	1:AY:68:TRP:CH2	2.54	0.43
1:AU:181:LYS:O	1:AU:182:ALA:CB	2.66	0.43
1:A4:172:ASN:HB2	2:C5:132:TYR:O	2.19	0.43
1:A9:181:LYS:O	1:A9:182:ALA:CB	2.66	0.43
1:BD:181:LYS:O	1:BD:182:ALA:CB	2.66	0.43
1:A6:172:ASN:HB2	2:C7:132:TYR:O	2.19	0.43
1:AD:172:ASN:HB2	2:CD:132:TYR:O	2.19	0.43
1:AF:172:ASN:HB2	2:CH:132:TYR:O	97.37	0.43
1:AQ:172:ASN:HB2	2:CQ:132:TYR:O	2.19	0.43
1:A3:181:LYS:O	1:A3:182:ALA:CB	2.66	0.43
2:CW:57:THR:O	2:CW:59:SER:N	2.52	0.43
2:C5:55:GLY:HA2	2:C5:56:PRO:HD3	1.80	0.43
1:AS:172:ASN:HB2	2:CT:132:TYR:O	2.19	0.43
2:CO:57:THR:O	2:CO:59:SER:N	2.52	0.43
2:CK:57:THR:O	2:CK:59:SER:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CK:57:THR:O	2:CK:58:LEU:CB	2.66	0.43
2:CR:57:THR:O	2:CR:59:SER:N	2.52	0.43
2:CE:57:THR:O	2:CE:59:SER:N	2.52	0.43
2:CQ:57:THR:O	2:CQ:58:LEU:CB	2.66	0.43
2:CS:57:THR:O	2:CS:59:SER:N	2.52	0.43
2:CT:57:THR:O	2:CT:59:SER:N	2.52	0.43
1:AP:172:ASN:HB2	2:CP:132:TYR:O	2.19	0.43
2:CZ:57:THR:O	2:CZ:59:SER:N	2.52	0.43
1:AK:103:TRP:CZ2	1:AL:208:TYR:CE2	3.06	0.43
2:C3:57:THR:O	2:C3:58:LEU:CB	2.66	0.43
1:AH:103:TRP:CZ2	1:AI:208:TYR:CE2	3.06	0.43
2:CM:152:TYR:HB3	2:CM:197:LEU:HD22	2.00	0.43
2:CV:152:TYR:OH	3:EC:60:PRO:HD3	266.39	0.43
2:CU:153:GLN:CD	3:EB:55:SER:HB2	249.78	0.43
2:CU:152:TYR:OH	3:EB:60:PRO:HD3	254.05	0.43
2:CP:25:ASN:O	2:CP:26:SER:HB3	2.18	0.43
1:AA:30:VAL:HG13	1:AA:218:MET:CE	2.49	0.43
1:AG:65:GLN:HG2	1:AG:70:ARG:HD2	2.01	0.43
2:CE:153:GLN:CD	3:DE:55:SER:HB2	2.39	0.43
2:CR:152:TYR:CE1	3:DR:60:PRO:CG	3.01	0.43
2:CA:153:GLN:CD	3:DA:55:SER:HB2	2.39	0.43
1:AK:65:GLN:HG2	1:AK:70:ARG:HD2	2.01	0.43
2:CK:153:GLN:CD	3:DK:55:SER:HB2	2.39	0.43
1:AN:65:GLN:HG2	1:AN:70:ARG:HD2	2.01	0.43
2:C1:25:ASN:O	2:C1:26:SER:HB3	2.18	0.43
1:AH:72:LEU:O	1:AH:75:CYS:SG	2.76	0.43
1:AN:220:CYS:HA	1:AN:221:PRO:HD2	1.82	0.43
2:CG:13:ARG:HD3	2:CG:13:ARG:HA	1.72	0.43
2:C1:153:GLN:CD	3:D1:55:SER:HB2	2.39	0.43
2:C1:152:TYR:CE1	3:D1:60:PRO:CG	3.01	0.43
1:A7:30:VAL:HG13	1:A7:218:MET:CE	2.49	0.43
1:AH:65:GLN:HG2	1:AH:70:ARG:HD2	2.01	0.43
1:AV:30:VAL:HG13	1:AV:218:MET:CE	2.49	0.43
1:A1:30:VAL:HG13	1:A1:218:MET:CE	2.49	0.43
1:AU:72:LEU:O	1:AU:75:CYS:SG	2.76	0.43
1:AS:72:LEU:O	1:AS:75:CYS:SG	2.76	0.43
1:AP:65:GLN:HG2	1:AP:70:ARG:HD2	2.01	0.43
1:BC:65:GLN:HG2	1:BC:70:ARG:HD2	2.01	0.43
1:BE:181:LYS:O	1:BE:182:ALA:CB	2.66	0.43
1:AJ:219:TYR:HD2	3:DJ:39:ARG:HB2	1.79	0.43
1:AT:79:PHE:C	1:AT:79:PHE:CD1	2.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:79:PHE:CD1	1:A4:79:PHE:C	2.92	0.43
1:AH:62:SER:O	1:AH:63:THR:CB	2.66	0.43
1:A8:181:LYS:O	1:A8:182:ALA:CB	2.66	0.43
2:C9:78:ALA:HB1	2:C9:195:VAL:HG12	1.99	0.43
3:DW:56:ILE:CG1	3:DW:74:PHE:CE1	2.98	0.43
3:DQ:75:GLN:NE2	3:DQ:184:GLN:OE1	2.49	0.43
1:AG:62:SER:O	1:AG:63:THR:CB	2.66	0.43
1:AY:62:SER:O	1:AY:63:THR:CB	2.66	0.43
2:CY:134:HIS:HB3	2:CY:135:THR:H	1.46	0.43
2:CJ:103:LEU:HD21	3:DF:163:PRO:HD3	2.01	0.43
1:AF:43:LEU:H	1:AF:43:LEU:HD23	1.81	0.43
3:ED:217:ARG:HD3	3:ED:218:HIS:CD2	2.54	0.43
3:D5:97:PHE:HB3	3:D5:218:HIS:O	2.17	0.43
3:DE:217:ARG:HD3	3:DE:218:HIS:CD2	2.54	0.43
1:BB:43:LEU:H	1:BB:43:LEU:HD23	1.81	0.43
3:EE:217:ARG:HD3	3:EE:218:HIS:CD2	2.54	0.43
2:C3:65:LYS:CB	3:DU:135:ARG:HH21	2.29	0.43
1:AS:74:THR:HG22	1:AS:74:THR:O	2.19	0.43
1:AF:225:PRO:HA	1:AF:226:PRO:HD2	1.87	0.43
1:AC:176:ALA:C	1:AC:178:THR:H	2.22	0.43
1:BI:176:ALA:C	1:BI:178:THR:H	2.22	0.43
3:DV:179:VAL:HG12	3:DV:181:GLY:N	2.32	0.43
3:DZ:175:THR:OG1	3:DZ:178:ASN:ND2	2.51	0.43
3:DW:179:VAL:HG12	3:DW:181:GLY:N	2.33	0.43
3:DS:84:GLU:H	3:DS:84:GLU:CD	2.21	0.43
3:DR:84:GLU:CD	3:DR:84:GLU:H	2.21	0.43
3:EA:84:GLU:H	3:EA:84:GLU:CD	2.21	0.43
1:BC:201:ALA:O	1:BC:202:HIS:HD2	2.01	0.43
1:BC:22:VAL:HG12	1:BC:23:ASP:N	2.33	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
4:FO:18:SER:O	4:FO:23:GLN:NE2	2.52	0.43
2:C5:42:ARG:HA	2:C5:43:PRO:HD2	1.64	0.43
1:AO:144:PHE:CD2	1:AO:154:CYS:HB3	2.54	0.43
1:A5:144:PHE:CD2	1:A5:154:CYS:HB3	2.54	0.43
2:CW:77:HIS:HE1	2:CW:144:GLU:HG2	1.84	0.43
2:C9:42:ARG:HA	2:C9:43:PRO:HD2	1.64	0.43
1:A7:144:PHE:CD2	1:A7:154:CYS:HB3	2.54	0.43
2:C4:22:THR:O	2:C4:22:THR:HG23	2.18	0.43
2:CT:22:THR:O	2:CT:22:THR:HG23	2.19	0.43
1:AQ:234:LYS:HA	1:AQ:234:LYS:HD3	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CV:22:THR:HG23	2:CV:22:THR:O	2.18	0.43
1:BB:144:PHE:CD2	1:BB:154:CYS:HB3	2.54	0.43
2:CW:117:SER:HB3	3:DS:192:THR:CG2	256.93	0.43
2:CC:207:GLN:HB3	3:DN:196:ILE:HG21	172.15	0.43
2:CM:207:GLN:HB3	3:DD:196:ILE:HG21	172.15	0.43
2:CV:117:SER:HB3	3:DB:192:THR:CG2	2.48	0.43
2:C5:63:THR:CG2	3:DG:188:LEU:HD21	2.47	0.43
2:CO:116:ALA:N	3:DR:119:LYS:NZ	151.32	0.43
2:CQ:117:SER:HB3	3:DP:192:THR:CG2	109.01	0.43
3:D3:119:LYS:O	3:D3:120:PHE:CB	2.67	0.43
3:DW:119:LYS:O	3:DW:120:PHE:CB	2.67	0.43
3:DE:119:LYS:O	3:DE:120:PHE:CB	2.67	0.43
3:DU:119:LYS:O	3:DU:120:PHE:CB	2.67	0.43
2:CS:207:GLN:HB3	3:DC:196:ILE:HG21	276.64	0.43
2:CP:212:THR:HG23	3:D1:188:LEU:HD22	1.96	0.43
3:D6:119:LYS:O	3:D6:120:PHE:CB	2.67	0.43
1:BA:13:THR:C	1:BA:14:GLU:HG3	2.38	0.43
2:CJ:49:ASP:HA	2:CJ:50:PRO:HD2	1.80	0.43
2:CP:46:THR:CG2	3:DQ:165:ASP:HA	2.38	0.43
1:AY:13:THR:C	1:AY:14:GLU:HG3	2.38	0.43
1:AA:106:TRP:CZ2	1:AA:158:VAL:HG13	2.54	0.43
1:AD:143:VAL:H	3:DE:14:PHE:CB	2.28	0.43
1:AE:106:TRP:CZ2	1:AE:158:VAL:HG13	2.54	0.43
1:AH:106:TRP:CZ2	1:AH:158:VAL:HG13	2.54	0.43
1:AK:106:TRP:CZ2	1:AK:158:VAL:HG13	2.54	0.43
1:AN:40:VAL:HB	1:AN:68:TRP:CH2	2.53	0.43
1:AO:106:TRP:CZ2	1:AO:158:VAL:HG13	2.54	0.43
3:DO:8:VAL:CG1	3:DO:9:PRO:HD2	2.39	0.43
4:FC:29:GLN:HB2	4:FC:30:TYR:HD1	1.84	0.43
1:AJ:74:THR:HG22	1:AJ:74:THR:O	2.19	0.43
1:AL:74:THR:O	1:AL:74:THR:HG22	2.19	0.43
1:BG:137:GLY:HA2	1:BH:38:PHE:CD1	2.49	0.43
3:DP:98:ALA:HB2	3:DP:220:VAL:HG21	2.01	0.43
1:AZ:40:VAL:HB	1:AZ:68:TRP:CH2	2.53	0.43
1:BG:181:LYS:O	1:BG:182:ALA:CB	2.66	0.43
1:AE:172:ASN:HB2	2:CG:132:TYR:O	126.40	0.43
1:AE:184:TYR:HE2	2:CE:139:ALA:HB3	1.84	0.43
1:AG:172:ASN:HB2	2:CG:132:TYR:O	2.19	0.43
1:AK:172:ASN:HB2	2:CM:132:TYR:O	97.37	0.43
1:AK:174:TRP:HB2	2:CM:188:LEU:CD2	102.19	0.43
1:AK:172:ASN:HB2	2:CK:132:TYR:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:184:TYR:HE2	2:C7:139:ALA:HB3	1.84	0.43
1:AT:172:ASN:HB2	2:CU:132:TYR:O	2.19	0.43
1:AJ:172:ASN:HB2	2:CL:132:TYR:O	256.53	0.43
1:AJ:184:TYR:HE2	2:CJ:139:ALA:HB3	1.84	0.43
2:C8:140:LEU:HD22	2:C8:190:ASN:CG	2.38	0.43
1:A3:172:ASN:HB2	2:C4:132:TYR:O	2.19	0.43
2:CH:57:THR:O	2:CH:59:SER:N	2.52	0.43
1:AW:172:ASN:HB2	2:CX:132:TYR:O	2.19	0.43
1:BI:172:ASN:HB2	2:CX:132:TYR:O	171.94	0.43
1:AE:115:THR:HG23	1:AE:133:LEU:N	2.25	0.43
1:AO:115:THR:HG23	1:AO:133:LEU:N	2.25	0.43
1:BE:172:ASN:HB2	2:CT:132:TYR:O	202.94	0.43
2:CG:57:THR:O	2:CG:59:SER:N	2.52	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:CI:57:THR:O	2:CI:59:SER:N	2.52	0.43
2:CV:57:THR:O	2:CV:59:SER:N	2.52	0.43
1:AT:208:TYR:CE2	1:AX:103:TRP:CZ2	3.06	0.43
1:A8:103:TRP:CZ2	1:A9:208:TYR:CE2	3.06	0.43
1:AM:103:TRP:CZ2	1:BA:208:TYR:CE2	227.96	0.43
2:CL:57:THR:O	2:CL:59:SER:N	2.52	0.43
1:BA:172:ASN:HB2	2:CP:132:TYR:O	108.14	0.43
1:A8:172:ASN:HB2	2:C9:132:TYR:O	2.19	0.43
2:C3:57:THR:O	2:C3:59:SER:N	2.52	0.43
2:CQ:152:TYR:CE1	3:DQ:60:PRO:CG	3.01	0.43
2:CG:153:GLN:CD	3:DG:55:SER:HB2	2.39	0.43
1:AC:30:VAL:HG13	1:AC:218:MET:CE	2.49	0.43
1:AE:65:GLN:HG2	1:AE:70:ARG:HD2	2.01	0.43
2:C3:153:GLN:CD	3:D3:55:SER:HB2	2.39	0.43
2:CZ:152:TYR:CE1	3:DZ:60:PRO:CG	3.01	0.43
1:AR:65:GLN:HG2	1:AR:70:ARG:HD2	2.01	0.43
2:CS:152:TYR:OH	3:DS:60:PRO:HD3	2.17	0.43
1:AD:72:LEU:O	1:AD:75:CYS:SG	2.76	0.43
2:CB:152:TYR:CE1	3:DB:60:PRO:CG	3.01	0.43
2:CJ:25:ASN:O	2:CJ:26:SER:HB3	2.18	0.43
2:CB:13:ARG:HA	2:CB:13:ARG:HD3	1.72	0.43
1:BC:72:LEU:O	1:BC:75:CYS:SG	2.76	0.43
1:BG:72:LEU:O	1:BG:75:CYS:SG	2.76	0.43
1:AP:72:LEU:O	1:AP:75:CYS:SG	2.76	0.43
1:BE:72:LEU:O	1:BE:75:CYS:SG	2.76	0.43
1:A2:72:LEU:O	1:A2:75:CYS:SG	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:153:GLN:CD	3:D0:55:SER:HB2	2.39	0.43
1:AW:65:GLN:HG2	1:AW:70:ARG:HD2	2.01	0.43
2:CY:13:ARG:HA	2:CY:13:ARG:HD3	1.72	0.43
2:C6:84:PRO:HD2	2:C6:186:LEU:CD2	2.48	0.43
2:CX:84:PRO:HD2	2:CX:186:LEU:CD2	2.48	0.43
1:A9:79:PHE:CD1	1:A9:79:PHE:C	2.92	0.43
1:AM:79:PHE:C	1:AM:79:PHE:CD1	2.92	0.43
1:BD:79:PHE:CD1	1:BD:79:PHE:C	2.92	0.43
1:BE:79:PHE:CD1	1:BE:79:PHE:C	2.92	0.43
1:AP:79:PHE:C	1:AP:79:PHE:CD1	2.92	0.43
2:C9:140:LEU:HD22	2:C9:190:ASN:CG	2.38	0.43
2:C5:134:HIS:HB3	2:C5:135:THR:H	1.46	0.43
2:C2:157:VAL:HG23	3:D2:50:THR:HG21	1.99	0.43
1:AZ:184:TYR:HE2	2:C0:139:ALA:HB3	1.84	0.43
1:AZ:43:LEU:HD23	1:AZ:43:LEU:H	1.81	0.43
2:CY:54:LEU:HB2	2:CY:220:ALA:HB3	1.99	0.43
3:D8:217:ARG:HD3	3:D8:218:HIS:CD2	2.54	0.43
2:CK:103:LEU:HD21	3:DL:163:PRO:HD3	2.01	0.43
3:D6:217:ARG:HD3	3:D6:218:HIS:CD2	2.54	0.43
3:EB:217:ARG:HD3	3:EB:218:HIS:CD2	2.54	0.43
1:A1:110:GLY:H	1:A2:242:ASN:ND2	2.12	0.43
2:C4:103:LEU:HD21	3:D5:163:PRO:HD3	2.01	0.43
2:CU:65:LYS:CB	3:DG:135:ARG:HH21	246.18	0.43
1:A4:74:THR:HG22	1:A4:74:THR:O	2.19	0.43
1:A8:74:THR:HG22	1:A8:74:THR:O	2.19	0.43
1:BG:74:THR:HG22	1:BG:74:THR:O	2.19	0.43
2:CN:36:TYR:CE2	2:CN:130:PRO:CG	2.98	0.43
2:CZ:129:VAL:HA	2:CZ:130:PRO:HD3	1.78	0.43
1:AH:176:ALA:C	1:AH:178:THR:H	2.22	0.43
1:AR:176:ALA:C	1:AR:178:THR:H	2.22	0.43
1:BC:176:ALA:C	1:BC:178:THR:H	2.22	0.43
2:CM:129:VAL:HA	2:CM:130:PRO:HD3	1.78	0.43
1:AW:176:ALA:C	1:AW:178:THR:H	2.22	0.43
1:A1:176:ALA:C	1:A1:178:THR:H	2.22	0.43
1:AX:176:ALA:C	1:AX:178:THR:H	2.22	0.43
3:DL:179:VAL:HG12	3:DL:181:GLY:N	2.33	0.43
1:BC:55:HIS:O	1:BC:194:SER:HB2	2.18	0.43
3:DE:79:SER:O	3:DE:81:SER:N	2.51	0.43
3:DI:79:SER:O	3:DI:81:SER:N	2.51	0.43
3:D5:79:SER:O	3:D5:81:SER:N	2.51	0.43
3:EC:79:SER:O	3:EC:81:SER:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D3:84:GLU:CD	3:D3:84:GLU:H	2.21	0.43
1:BA:22:VAL:HG12	1:BA:23:ASP:N	2.33	0.43
1:AX:22:VAL:HG12	1:AX:23:ASP:N	2.32	0.43
4:FU:18:SER:O	4:FU:23:GLN:NE2	2.52	0.43
1:A3:201:ALA:O	1:A3:202:HIS:HD2	2.01	0.43
1:AW:201:ALA:O	1:AW:202:HIS:CD2	2.71	0.43
4:FW:18:SER:O	4:FW:23:GLN:NE2	2.52	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
2:CD:77:HIS:HE1	2:CD:144:GLU:HG2	1.84	0.43
1:AM:144:PHE:CD2	1:AM:154:CYS:HB3	2.54	0.43
2:CV:77:HIS:HE1	2:CV:144:GLU:HG2	1.84	0.43
1:AA:144:PHE:CD2	1:AA:154:CYS:HB3	2.54	0.43
4:FI:32:ASN:HB3	4:FI:33:SER:H	1.58	0.43
1:A9:144:PHE:CD2	1:A9:154:CYS:HB3	2.54	0.43
1:BD:144:PHE:CD2	1:BD:154:CYS:HB3	2.54	0.43
1:A4:144:PHE:CD2	1:A4:154:CYS:HB3	2.54	0.43
2:CE:77:HIS:HE1	2:CE:144:GLU:HG2	1.84	0.43
2:CP:77:HIS:HE1	2:CP:144:GLU:HG2	1.84	0.43
3:D0:36:VAL:HA	3:D0:37:PRO:HD3	1.53	0.43
2:CI:77:HIS:HE1	2:CI:144:GLU:HG2	1.84	0.43
2:CC:22:THR:HG23	2:CC:22:THR:O	2.19	0.43
2:C2:22:THR:HG23	2:C2:22:THR:O	2.19	0.43
1:BI:144:PHE:CD2	1:BI:154:CYS:HB3	2.54	0.43
1:BA:144:PHE:CD2	1:BA:154:CYS:HB3	2.54	0.43
1:AU:144:PHE:CD2	1:AU:154:CYS:HB3	2.54	0.43
2:CH:207:GLN:HB3	3:DN:196:ILE:HG21	276.64	0.43
2:C7:117:SER:HB3	3:DM:192:THR:CG2	159.15	0.43
2:CM:207:GLN:HB3	3:DI:196:ILE:HG21	276.63	0.43
2:C2:207:GLN:HB3	3:DH:196:ILE:HG21	276.00	0.43
3:DG:119:LYS:O	3:DG:120:PHE:CB	2.67	0.43
2:CO:207:GLN:HB3	3:DR:196:ILE:HG21	162.63	0.43
2:CQ:207:GLN:HB3	3:DP:196:ILE:HG21	115.73	0.43
2:CG:207:GLN:HB3	3:D3:196:ILE:HG21	276.00	0.43
2:CG:207:GLN:HB3	3:EB:196:ILE:HG21	2.01	0.43
2:CB:117:SER:HB3	3:DF:192:THR:CG2	151.11	0.43
2:CE:216:ALA:HA	2:CE:217:PRO:HD3	1.78	0.43
3:DT:119:LYS:O	3:DT:120:PHE:CB	2.67	0.43
2:CP:207:GLN:HB3	3:D1:196:ILE:HG21	2.01	0.43
3:D0:119:LYS:O	3:D0:120:PHE:CB	2.67	0.43
2:CT:46:THR:CG2	3:DP:165:ASP:HA	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:103:SER:HB3	3:DV:159:PRO:CA	2.35	0.43
1:AD:106:TRP:CZ2	1:AD:158:VAL:HG13	2.54	0.43
1:AI:101:PHE:CD2	1:AI:143:VAL:CG1	2.91	0.43
1:AJ:106:TRP:CZ2	1:AJ:158:VAL:HG13	2.54	0.43
1:AL:146:ILE:HG21	1:AL:146:ILE:HD13	1.74	0.43
1:AT:121:LEU:HD21	1:AU:206:GLY:CA	2.47	0.43
1:AX:40:VAL:HB	1:AX:68:TRP:CH2	2.53	0.43
1:BF:137:GLY:HA2	1:BG:38:PHE:CD1	2.49	0.43
3:DS:23:THR:HA	3:DS:24:PRO:HD3	1.89	0.43
1:AH:74:THR:HG22	1:AH:74:THR:O	2.19	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
3:DB:98:ALA:HB2	3:DB:220:VAL:HG21	2.01	0.43
3:D0:98:ALA:HB2	3:D0:220:VAL:HG21	2.01	0.43
1:AE:164:TRP:HE1	1:AE:187:LEU:CD1	2.28	0.43
1:AU:184:TYR:HE2	2:CV:139:ALA:HB3	1.84	0.43
1:A0:172:ASN:HB2	2:C1:132:TYR:O	2.19	0.43
1:AA:184:TYR:HE2	2:CA:139:ALA:HB3	1.84	0.43
1:AC:174:TRP:HB2	2:CE:188:LEU:CD2	102.19	0.43
1:AI:172:ASN:HB2	2:CI:132:TYR:O	2.19	0.43
1:AO:172:ASN:HB2	2:CO:132:TYR:O	2.19	0.43
1:AD:172:ASN:HB2	2:CF:132:TYR:O	105.11	0.43
1:AL:184:TYR:HE2	2:CL:139:ALA:HB3	1.84	0.43
2:CA:57:THR:O	2:CA:58:LEU:CB	2.66	0.43
1:A0:208:TYR:CE2	1:AZ:103:TRP:CZ2	3.06	0.43
2:CB:57:THR:O	2:CB:58:LEU:CB	2.66	0.43
2:C6:57:THR:O	2:C6:59:SER:N	2.52	0.43
2:CM:57:THR:O	2:CM:59:SER:N	2.52	0.43
1:A5:103:TRP:CZ2	1:A6:208:TYR:CE2	3.06	0.43
1:AW:49:THR:HG22	1:AW:50:GLY:H	1.82	0.43
2:CI:153:GLN:CD	3:DI:55:SER:HB2	2.39	0.43
2:C6:25:ASN:O	2:C6:26:SER:HB3	2.18	0.43
2:CT:152:TYR:CE1	3:DT:60:PRO:CG	3.01	0.43
1:AM:30:VAL:HG13	1:AM:218:MET:CE	2.49	0.43
1:BD:72:LEU:O	1:BD:75:CYS:SG	2.76	0.43
2:CW:152:TYR:CE1	3:DW:60:PRO:CG	3.01	0.43
2:CW:153:GLN:CD	3:ED:55:SER:HB2	253.64	0.43
1:AD:30:VAL:HG13	1:AD:218:MET:CE	2.49	0.43
1:AD:65:GLN:HG2	1:AD:70:ARG:HD2	2.01	0.43
1:AL:30:VAL:HG13	1:AL:218:MET:CE	2.49	0.43
2:CC:152:TYR:HB3	2:CC:197:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:153:GLN:CD	3:D7:55:SER:HB2	2.39	0.43
1:AR:30:VAL:HG13	1:AR:218:MET:CE	2.49	0.43
1:A5:30:VAL:HG13	1:A5:218:MET:CE	2.49	0.43
2:CD:153:GLN:CD	3:DD:55:SER:HB2	2.39	0.43
1:AQ:30:VAL:HG13	1:AQ:218:MET:CE	2.49	0.43
1:AQ:72:LEU:O	1:AQ:75:CYS:SG	2.76	0.43
2:C3:13:ARG:HD3	2:C3:13:ARG:HA	1.72	0.43
2:C8:84:PRO:HD2	2:C8:186:LEU:CD2	2.48	0.43
2:C7:84:PRO:HD2	2:C7:186:LEU:CD2	2.48	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:BE:184:TYR:HE2	2:CT:139:ALA:HB3	215.79	0.43
1:BB:79:PHE:CD1	1:BB:79:PHE:C	2.92	0.43
1:BF:79:PHE:CD1	1:BF:79:PHE:C	2.92	0.43
1:BI:79:PHE:C	1:BI:79:PHE:CD1	2.92	0.43
1:A0:79:PHE:CD1	1:A0:79:PHE:C	2.92	0.43
1:AE:62:SER:O	1:AE:63:THR:CB	2.66	0.43
3:DW:75:GLN:NE2	3:DW:184:GLN:OE1	2.48	0.43
1:AZ:79:PHE:C	1:AZ:79:PHE:CD1	2.92	0.43
1:A5:184:TYR:HE2	2:C6:139:ALA:HB3	1.84	0.43
1:BF:62:SER:HB2	1:BF:73:ASN:ND2	2.27	0.43
1:A2:62:SER:O	1:A2:63:THR:CB	2.66	0.43
1:A8:62:SER:O	1:A8:63:THR:CB	2.66	0.43
3:DB:217:ARG:HD3	3:DB:218:HIS:CD2	2.54	0.43
2:CY:103:LEU:HD21	3:DU:163:PRO:HD3	2.01	0.43
2:C0:103:LEU:HD21	3:D1:163:PRO:HD3	2.01	0.43
1:AY:110:GLY:H	1:AZ:242:ASN:ND2	2.12	0.43
2:C4:65:LYS:CB	3:EC:135:ARG:HH21	2.29	0.43
2:CZ:39:PRO:HB3	2:CZ:176:PRO:HA	1.99	0.43
2:C9:39:PRO:HB3	2:C9:176:PRO:HA	1.99	0.43
1:AA:176:ALA:C	1:AA:178:THR:H	2.22	0.43
1:AF:176:ALA:C	1:AF:178:THR:H	2.22	0.43
2:CA:36:TYR:CE2	2:CA:130:PRO:CG	2.98	0.43
2:CQ:129:VAL:HA	2:CQ:130:PRO:HD3	1.78	0.43
1:BA:176:ALA:C	1:BA:178:THR:H	2.22	0.43
1:AY:176:ALA:C	1:AY:178:THR:H	2.22	0.43
1:BH:55:HIS:O	1:BH:194:SER:HB2	2.18	0.43
1:AJ:128:VAL:HG13	1:AJ:128:VAL:O	2.19	0.43
1:AA:128:VAL:O	1:AA:128:VAL:HG13	2.19	0.43
1:A9:128:VAL:HG13	1:A9:128:VAL:O	2.19	0.43
3:D0:84:GLU:H	3:D0:84:GLU:CD	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:22:VAL:HG12	1:A4:23:ASP:N	2.33	0.43
4:FH:18:SER:O	4:FH:23:GLN:NE2	2.52	0.43
4:FG:18:SER:O	4:FG:23:GLN:NE2	2.52	0.43
1:A2:144:PHE:CD2	1:A2:154:CYS:HB3	2.54	0.43
2:CK:77:HIS:HE1	2:CK:144:GLU:HG2	1.84	0.43
2:CJ:77:HIS:HE1	2:CJ:144:GLU:HG2	1.84	0.43
1:AB:144:PHE:CD2	1:AB:154:CYS:HB3	2.54	0.43
2:CG:77:HIS:HE1	2:CG:144:GLU:HG2	1.84	0.43
2:CY:77:HIS:HE1	2:CY:144:GLU:HG2	1.84	0.43
2:CR:77:HIS:HE1	2:CR:144:GLU:HG2	1.84	0.43
1:AS:144:PHE:CD2	1:AS:154:CYS:HB3	2.54	0.43
2:CR:95:HIS:CD2	2:CR:95:HIS:C	2.93	0.43
2:CG:22:THR:HG23	2:CG:22:THR:O	2.19	0.43
2:CH:22:THR:HG23	2:CH:22:THR:O	2.19	0.43
2:C8:22:THR:O	2:C8:22:THR:HG23	2.18	0.43
2:CD:95:HIS:C	2:CD:95:HIS:CD2	2.92	0.43
1:BF:234:LYS:HD3	1:BF:234:LYS:HA	1.89	0.43
2:CB:22:THR:HG23	2:CB:22:THR:O	2.18	0.43
2:CX:95:HIS:CD2	2:CX:95:HIS:C	2.92	0.43
1:AK:92:THR:HB	1:AK:93:THR:H	1.62	0.43
2:CW:117:SER:HB3	3:DJ:192:THR:CG2	2.47	0.43
3:DS:119:LYS:O	3:DS:120:PHE:CB	2.67	0.43
2:CJ:207:GLN:HB3	3:DM:196:ILE:HG21	246.29	0.43
2:CV:207:GLN:HB3	3:DB:196:ILE:HG21	2.01	0.43
3:DI:119:LYS:O	3:DI:120:PHE:CB	2.67	0.43
3:D8:119:LYS:O	3:D8:120:PHE:CB	2.67	0.43
3:D5:119:LYS:O	3:D5:120:PHE:CB	2.67	0.43
3:DY:119:LYS:O	3:DY:120:PHE:CB	2.67	0.43
2:CY:212:THR:HG23	3:DZ:188:LEU:HD22	1.96	0.43
2:C4:117:SER:HB3	3:EC:192:THR:CG2	2.47	0.43
2:CC:46:THR:CG2	3:DD:165:ASP:HA	2.38	0.43
3:DN:101:ARG:HH12	3:DN:165:ASP:HB3	1.84	0.43
1:A5:13:THR:C	1:A5:14:GLU:HG3	2.38	0.43
1:AB:106:TRP:CZ2	1:AB:158:VAL:HG13	2.54	0.43
1:AD:41:GLU:O	1:AD:42:THR:HB	2.19	0.43
1:AF:40:VAL:HB	1:AF:68:TRP:CH2	2.54	0.43
1:AG:143:VAL:H	3:DE:14:PHE:CB	146.24	0.43
1:AT:41:GLU:O	1:AT:42:THR:HB	2.19	0.43
1:BB:40:VAL:HB	1:BB:68:TRP:CH2	2.53	0.43
3:DQ:23:THR:HA	3:DQ:24:PRO:HD3	1.89	0.43
4:FM:29:GLN:HB2	4:FM:30:TYR:HD1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FY:29:GLN:HB2	4:FY:30:TYR:HD1	1.84	0.43
1:AG:74:THR:HG22	1:AG:74:THR:O	2.19	0.43
1:AU:106:TRP:CZ2	1:AU:158:VAL:HG13	2.54	0.43
1:A3:106:TRP:CZ2	1:A3:158:VAL:HG13	2.54	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
1:A1:137:GLY:HA2	1:A2:38:PHE:CD1	2.49	0.43
4:F2:29:GLN:HB2	4:F2:30:TYR:HD1	1.84	0.43
1:AG:184:TYR:HE2	2:CG:139:ALA:HB3	1.84	0.43
1:AG:184:TYR:HE2	2:CI:139:ALA:HB3	105.63	0.43
1:A9:172:ASN:HB2	2:CA:132:TYR:O	252.52	0.43
1:AC:184:TYR:HE2	2:CC:139:ALA:HB3	1.84	0.43
2:CF:134:HIS:HB3	2:CF:135:THR:H	1.46	0.43
1:BE:49:THR:HG22	1:BE:50:GLY:H	1.82	0.43
2:CA:55:GLY:HA2	2:CA:56:PRO:HD3	1.80	0.43
2:CN:57:THR:O	2:CN:59:SER:N	2.52	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:CF:58:LEU:HB3	2:CF:59:SER:H	1.65	0.43
2:CD:57:THR:O	2:CD:59:SER:N	2.52	0.43
1:BG:103:TRP:CZ2	1:BH:208:TYR:CE2	3.06	0.43
2:CO:55:GLY:HA2	2:CO:56:PRO:HD3	1.80	0.43
2:CX:57:THR:O	2:CX:59:SER:N	2.52	0.43
1:BH:115:THR:HG23	1:BH:133:LEU:N	2.25	0.43
2:CE:57:THR:O	2:CE:58:LEU:CB	2.66	0.43
1:AP:181:LYS:O	1:AP:182:ALA:CB	2.66	0.43
1:AU:115:THR:HG23	1:AU:133:LEU:N	2.25	0.43
2:CH:153:GLN:CD	3:DH:55:SER:HB2	2.39	0.43
2:CV:152:TYR:CE1	3:DV:60:PRO:CG	3.01	0.43
1:AE:30:VAL:HG13	1:AE:218:MET:CE	2.49	0.43
1:AE:72:LEU:O	1:AE:75:CYS:SG	2.76	0.43
1:BD:30:VAL:HG13	1:BD:218:MET:CE	2.49	0.43
2:C8:25:ASN:O	2:C8:26:SER:HB3	2.18	0.43
2:CZ:153:GLN:CD	3:DZ:55:SER:HB2	2.39	0.43
2:CI:25:ASN:O	2:CI:26:SER:HB3	2.18	0.43
1:AN:30:VAL:HG13	1:AN:218:MET:CE	2.49	0.43
2:CA:25:ASN:O	2:CA:26:SER:HB3	2.18	0.43
1:BC:30:VAL:HG13	1:BC:218:MET:CE	2.49	0.43
1:A4:72:LEU:O	1:A4:75:CYS:SG	2.76	0.43
2:C7:13:ARG:HD3	2:C7:13:ARG:HA	1.72	0.43
1:AL:65:GLN:HG2	1:AL:70:ARG:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:30:VAL:HG13	1:AX:218:MET:CE	2.49	0.43
1:BH:65:GLN:HG2	1:BH:70:ARG:HD2	2.01	0.43
1:AU:65:GLN:HG2	1:AU:70:ARG:HD2	2.01	0.43
1:AQ:79:PHE:CD1	1:AQ:79:PHE:C	2.92	0.43
2:C9:84:PRO:HD2	2:C9:186:LEU:CD2	2.48	0.43
1:AO:219:TYR:HD2	3:DS:39:ARG:HB2	103.07	0.43
1:A0:184:TYR:HE2	2:C1:139:ALA:HB3	1.84	0.43
3:DZ:75:GLN:NE2	3:DZ:184:GLN:OE1	2.49	0.43
3:D4:75:GLN:NE2	3:D4:184:GLN:OE1	2.49	0.43
1:A3:79:PHE:CD1	1:A3:79:PHE:C	2.92	0.43
1:BD:62:SER:O	1:BD:63:THR:CB	2.66	0.43
1:AT:184:TYR:HE2	2:CU:139:ALA:HB3	1.84	0.43
2:CN:69:TRP:HZ2	2:CN:198:ILE:HG23	1.85	0.43
1:BB:62:SER:O	1:BB:63:THR:CB	2.66	0.43
1:AD:43:LEU:HD23	1:AD:43:LEU:H	1.81	0.43
2:CI:103:LEU:HD21	3:DE:163:PRO:HD3	132.70	0.43
3:DR:217:ARG:HD3	3:DR:218:HIS:CD2	2.54	0.43
3:DM:217:ARG:HD3	3:DM:218:HIS:CD2	2.54	0.43
3:DY:217:ARG:HD3	3:DY:218:HIS:CD2	2.54	0.43
3:DU:217:ARG:HD3	3:DU:218:HIS:CD2	2.54	0.43
2:CW:103:LEU:HD21	3:DX:163:PRO:HD3	2.01	0.43
2:CG:65:LYS:CB	3:EB:135:ARG:HH21	2.29	0.43
2:CP:23:ILE:CD1	2:CP:23:ILE:N	2.81	0.43
1:A6:74:THR:O	1:A6:74:THR:HG22	2.19	0.43
2:CK:129:VAL:HA	2:CK:130:PRO:HD3	1.78	0.43
1:AB:176:ALA:C	1:AB:178:THR:H	2.22	0.43
1:A8:55:HIS:O	1:A8:194:SER:HB2	2.18	0.43
1:BB:55:HIS:O	1:BB:194:SER:HB2	2.18	0.43
1:AZ:55:HIS:O	1:AZ:194:SER:HB2	2.17	0.43
1:AQ:55:HIS:O	1:AQ:194:SER:HB2	2.18	0.43
3:DJ:79:SER:O	3:DJ:81:SER:N	2.51	0.43
3:DZ:79:SER:O	3:DZ:81:SER:N	2.51	0.43
1:A8:128:VAL:HG13	1:A8:128:VAL:O	2.19	0.43
1:BF:128:VAL:HG13	1:BF:128:VAL:O	2.19	0.43
1:A1:26:VAL:HG12	1:A1:27:HIS:N	2.32	0.43
1:AV:22:VAL:HG12	1:AV:23:ASP:N	2.33	0.43
4:FN:18:SER:O	4:FN:23:GLN:NE2	2.52	0.43
4:F3:18:SER:O	4:F3:23:GLN:NE2	2.52	0.43
1:AJ:144:PHE:CD2	1:AJ:154:CYS:HB3	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:144:PHE:CD2	1:AR:154:CYS:HB3	2.54	0.43
2:CT:95:HIS:C	2:CT:95:HIS:CD2	2.93	0.43
2:C9:22:THR:O	2:C9:22:THR:HG23	2.18	0.43
2:CE:95:HIS:C	2:CE:95:HIS:CD2	2.92	0.43
2:C4:95:HIS:CD2	2:C4:95:HIS:C	2.92	0.43
2:C5:95:HIS:CD2	2:C5:95:HIS:C	2.93	0.43
1:A0:144:PHE:CD2	1:A0:154:CYS:HB3	2.54	0.43
4:FA:32:ASN:HB3	4:FA:33:SER:H	1.58	0.43
2:CI:116:ALA:N	3:DJ:119:LYS:NZ	71.25	0.42
2:CK:116:ALA:N	3:DB:119:LYS:NZ	256.87	0.42
2:CM:116:ALA:N	3:DD:119:LYS:NZ	159.96	0.42
2:CR:207:GLN:HB3	3:DI:196:ILE:HG21	172.15	0.42
3:EE:119:LYS:O	3:EE:120:PHE:CB	2.67	0.42
2:CL:207:GLN:HB3	3:DK:196:ILE:HG21	115.73	0.42
2:CU:117:SER:HB3	3:D5:192:THR:CG2	263.16	0.42
2:CU:216:ALA:HA	2:CU:217:PRO:HD3	1.78	0.42
2:CD:117:SER:HB3	3:D7:192:THR:CG2	2.47	0.42
2:CG:116:ALA:N	3:D3:119:LYS:NZ	256.87	0.42
2:CD:46:THR:CG2	3:DE:165:ASP:HA	2.38	0.42
3:DJ:101:ARG:HH12	3:DJ:165:ASP:HB3	1.84	0.42
3:DQ:101:ARG:HH12	3:DQ:165:ASP:HB3	1.84	0.42
1:AT:13:THR:C	1:AT:14:GLU:HG3	2.38	0.42
3:D7:103:SER:HB2	3:D7:159:PRO:HA	1.95	0.42
1:A8:201:ALA:O	1:A8:202:HIS:HD2	2.01	0.42
1:AE:41:GLU:O	1:AE:42:THR:HB	2.19	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	2.20	0.42
1:AR:106:TRP:CZ2	1:AR:158:VAL:HG13	2.54	0.42
1:BC:106:TRP:CZ2	1:BC:158:VAL:HG13	2.54	0.42
4:FG:29:GLN:HB2	4:FG:30:TYR:HD1	1.84	0.42
4:FJ:29:GLN:HB2	4:FJ:30:TYR:HD1	1.84	0.42
4:FK:29:GLN:HB2	4:FK:30:TYR:HD1	1.84	0.42
4:FL:29:GLN:HB2	4:FL:30:TYR:HD1	1.84	0.42
1:A3:41:GLU:O	1:A3:42:THR:HB	2.19	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
3:DD:98:ALA:HB2	3:DD:220:VAL:HG21	2.01	0.42
3:DF:98:ALA:HB2	3:DF:220:VAL:HG21	2.01	0.42
3:DA:98:ALA:HB2	3:DA:220:VAL:HG21	2.01	0.42
1:A0:139:SER:HA	1:A0:140:PRO:HD3	1.62	0.42
3:D2:98:ALA:HB2	3:D2:220:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DS:98:ALA:HB2	3:DS:220:VAL:HG21	2.01	0.42
1:BD:164:TRP:HE1	1:BD:187:LEU:CD1	2.28	0.42
1:A6:41:GLU:O	1:A6:42:THR:HB	2.19	0.42
1:AT:164:TRP:HE1	1:AT:187:LEU:CD1	2.28	0.42
2:CM:209:VAL:CG1	2:CM:209:VAL:O	2.65	0.42
1:AU:172:ASN:HB2	2:CV:132:TYR:O	2.19	0.42
1:BD:184:TYR:HE2	2:CS:139:ALA:HB3	165.38	0.42
1:AM:184:TYR:HE2	2:CM:139:ALA:HB3	1.84	0.42
1:AJ:172:ASN:HB2	2:CJ:132:TYR:O	2.19	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:BC:172:ASN:HB2	2:CR:132:TYR:O	154.77	0.42
1:AR:172:ASN:HB2	2:CR:132:TYR:O	2.19	0.42
2:CA:57:THR:O	2:CA:59:SER:N	2.52	0.42
2:CC:57:THR:O	2:CC:59:SER:N	2.52	0.42
1:AC:103:TRP:CZ2	1:AD:208:TYR:CE2	3.06	0.42
1:AW:174:TRP:HB2	2:CX:188:LEU:CD2	2.44	0.42
1:A6:103:TRP:CZ2	1:A7:208:TYR:CE2	3.06	0.42
1:A2:52:PRO:HD3	1:A2:115:THR:O	2.17	0.42
2:C2:55:GLY:HA2	2:C2:56:PRO:HD3	1.80	0.42
2:CL:57:THR:O	2:CL:58:LEU:CB	2.66	0.42
2:CL:58:LEU:HB3	2:CL:59:SER:H	1.65	0.42
2:C0:57:THR:O	2:C0:59:SER:N	2.52	0.42
2:C3:58:LEU:HB3	2:C3:59:SER:H	1.65	0.42
2:CQ:153:GLN:CD	3:DQ:55:SER:HB2	2.39	0.42
2:CT:153:GLN:CD	3:DT:55:SER:HB2	2.39	0.42
1:AI:65:GLN:HG2	1:AI:70:ARG:HD2	2.01	0.42
1:AG:30:VAL:HG13	1:AG:218:MET:CE	2.49	0.42
1:AO:30:VAL:HG13	1:AO:218:MET:CE	2.49	0.42
1:A2:65:GLN:HG2	1:A2:70:ARG:HD2	2.01	0.42
2:C9:153:GLN:CD	3:D9:55:SER:HB2	2.39	0.42
1:AB:170:PHE:HD2	1:AB:222:ARG:NH1	2.17	0.42
1:AJ:170:PHE:HD2	1:AJ:222:ARG:NH1	2.17	0.42
2:CO:152:TYR:HB3	2:CO:197:LEU:HD22	2.00	0.42
1:BH:30:VAL:HG13	1:BH:218:MET:CE	2.49	0.42
2:C6:153:GLN:CD	3:D6:55:SER:HB2	2.39	0.42
1:A1:170:PHE:HD2	1:A1:222:ARG:NH1	2.17	0.42
2:C1:83:LEU:HA	2:C1:84:PRO:HA	1.60	0.42
1:AN:79:PHE:CD1	1:AN:79:PHE:C	2.92	0.42
1:AQ:181:LYS:O	1:AQ:182:ALA:CB	2.66	0.42
2:CK:69:TRP:HZ2	2:CK:198:ILE:HG23	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:79:PHE:C	1:BH:79:PHE:CD1	2.92	0.42
1:A8:79:PHE:CD1	1:A8:79:PHE:C	2.92	0.42
3:ED:75:GLN:NE2	3:ED:184:GLN:OE1	2.49	0.42
2:CM:69:TRP:HZ2	2:CM:198:ILE:HG23	1.84	0.42
3:DX:75:GLN:NE2	3:DX:184:GLN:OE1	2.49	0.42
1:BI:62:SER:O	1:BI:63:THR:CB	2.66	0.42
1:A7:62:SER:O	1:A7:63:THR:CB	2.66	0.42
1:AG:239:PHE:CD2	3:DG:226:GLN:NE2	2.87	0.42
1:AG:239:PHE:CD2	3:DI:226:GLN:NE2	81.58	0.42
1:AB:239:PHE:CD2	3:DD:226:GLN:NE2	81.58	0.42
1:BA:239:PHE:CD2	3:DP:226:GLN:NE2	133.76	0.42
2:CS:103:LEU:HD21	3:DO:163:PRO:HD3	132.70	0.42
3:DT:217:ARG:HD3	3:DT:218:HIS:CD2	2.54	0.42
1:AP:110:GLY:H	1:AQ:242:ASN:ND2	2.12	0.42
1:BF:109:VAL:HG22	1:BF:191:HIS:HD2	1.82	0.42
2:CK:65:LYS:CB	3:DA:135:ARG:HH21	276.28	0.42
2:CH:65:LYS:CB	3:DS:135:ARG:HH21	164.35	0.42
3:DY:115:ALA:CB	3:DY:194:THR:OG1	2.67	0.42
1:A8:176:ALA:C	1:A8:178:THR:H	2.22	0.42
1:AZ:176:ALA:C	1:AZ:178:THR:H	2.22	0.42
1:A2:176:ALA:C	1:A2:178:THR:H	2.22	0.42
1:A3:176:ALA:C	1:A3:178:THR:H	2.22	0.42
3:DA:79:SER:O	3:DA:81:SER:N	2.51	0.42
3:DS:79:SER:O	3:DS:81:SER:N	2.51	0.42
1:AO:128:VAL:HG13	1:AO:128:VAL:O	2.19	0.42
1:A4:128:VAL:O	1:A4:128:VAL:HG13	2.19	0.42
1:AK:128:VAL:O	1:AK:128:VAL:HG13	2.19	0.42
1:A5:128:VAL:O	1:A5:128:VAL:HG13	2.19	0.42
1:A0:128:VAL:O	1:A0:128:VAL:HG13	2.19	0.42
3:DA:84:GLU:H	3:DA:84:GLU:CD	2.21	0.42
3:EC:84:GLU:H	3:EC:84:GLU:CD	2.20	0.42
3:DM:84:GLU:H	3:DM:84:GLU:CD	2.20	0.42
1:BE:22:VAL:HG12	1:BE:23:ASP:N	2.33	0.42
3:DV:84:GLU:CD	3:DV:84:GLU:H	2.21	0.42
1:A0:22:VAL:HG12	1:A0:23:ASP:N	2.33	0.42
4:F7:18:SER:O	4:F7:23:GLN:NE2	2.52	0.42
4:FI:18:SER:O	4:FI:23:GLN:NE2	2.52	0.42
1:AD:144:PHE:CD2	1:AD:154:CYS:HB3	2.54	0.42
1:AN:144:PHE:CD2	1:AN:154:CYS:HB3	2.54	0.42
1:AF:144:PHE:CD2	1:AF:154:CYS:HB3	2.54	0.42
1:BE:144:PHE:CD2	1:BE:154:CYS:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:144:PHE:CD2	1:BF:154:CYS:HB3	2.54	0.42
2:CF:77:HIS:HE1	2:CF:144:GLU:HG2	1.84	0.42
2:CI:95:HIS:CD2	2:CI:95:HIS:C	2.93	0.42
2:C5:22:THR:HG23	2:C5:22:THR:O	2.18	0.42
2:CF:95:HIS:C	2:CF:95:HIS:CD2	2.93	0.42
2:CP:95:HIS:C	2:CP:95:HIS:CD2	2.93	0.42
1:BC:144:PHE:CD2	1:BC:154:CYS:HB3	2.54	0.42
3:DX:119:LYS:O	3:DX:120:PHE:CB	2.67	0.42
2:CK:117:SER:HB3	3:DB:192:THR:CG2	263.16	0.42
2:CV:212:THR:HG23	3:DD:188:LEU:HD22	143.39	0.42
2:C0:216:ALA:HA	2:C0:217:PRO:HD3	1.78	0.42
2:CA:116:ALA:N	3:DL:119:LYS:NZ	256.87	0.42
2:CN:117:SER:HB3	3:DE:192:THR:CG2	262.70	0.42
3:DH:101:ARG:HH12	3:DH:165:ASP:HB3	1.84	0.42
3:ED:101:ARG:HH12	3:ED:165:ASP:HB3	1.84	0.42
2:C7:46:THR:CG2	3:D8:165:ASP:HA	2.38	0.42
1:A8:88:PHE:CA	1:A8:207:CYS:HA	2.48	0.42
1:A9:106:TRP:CZ2	1:A9:158:VAL:HG13	2.54	0.42
1:AC:41:GLU:O	1:AC:42:THR:HB	2.19	0.42
1:AK:121:LEU:HD21	1:AL:206:GLY:CA	2.47	0.42
1:AR:40:VAL:HB	1:AR:68:TRP:CH2	2.53	0.42
1:AS:40:VAL:HB	1:AS:68:TRP:CH2	2.53	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	152.05	0.42
1:BD:40:VAL:HB	1:BD:68:TRP:CH2	2.54	0.42
3:DC:8:VAL:CG1	3:DC:9:PRO:HD2	2.40	0.42
3:DI:23:THR:HA	3:DI:24:PRO:HD3	1.89	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: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:FU:29:GLN:HB2	4:FU:30:TYR:HD1	1.84	0.42
4:FX:29:GLN:HB2	4:FX:30:TYR:HD1	1.84	0.42
1:AB:74:THR:O	1:AB:74:THR:HG22	2.19	0.42
1:AP:74:THR:O	1:AP:74:THR:HG22	2.19	0.42
1:A3:40:VAL:HB	1:A3:68:TRP:CH2	2.54	0.42
1:BH:41:GLU:O	1:BH:42:THR:HB	2.19	0.42
4:FW:29:GLN:HB2	4:FW:30:TYR:HD1	1.84	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:HG21	1:A5:146:ILE:HD13	1.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F6:29:GLN:HB2	4:F6:30:TYR:HD1	1.84	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
1:AZ:106:TRP:CZ2	1:AZ:158:VAL:HG13	2.54	0.42
3:D2:8:VAL:CG1	3:D2:9:PRO:HD2	2.39	0.42
1:AY:87:GLN:O	1:AY:88:PHE:CB	2.62	0.42
3:EE:98:ALA:HB2	3:EE:220:VAL:HG21	2.01	0.42
3:D8:98:ALA:HB2	3:D8:220:VAL:HG21	2.01	0.42
1:AE:175:GLY:N	1:AE:183:THR:O	2.53	0.42
3:ED:98:ALA:HB2	3:ED:220:VAL:HG21	2.01	0.42
2:CU:209:VAL:O	2:CU:209:VAL:CG1	2.65	0.42
1:AA:174:TRP:HB2	2:CC:188:LEU:CD2	102.19	0.42
1:AC:172:ASN:HB2	2:CE:132:TYR:O	97.37	0.42
1:AI:184:TYR:HE2	2:CK:139:ALA:HB3	280.47	0.42
1:AC:172:ASN:HB2	2:CC:132:TYR:O	2.19	0.42
1:AE:172:ASN:HB2	2:CE:132:TYR:O	2.19	0.42
2:CO:135:THR:O	2:CO:137:GLU:N	2.53	0.42
1:AY:172:ASN:HB2	2:CZ:132:TYR:O	2.19	0.42
1:AD:184:TYR:HE2	2:CF:139:ALA:HB3	107.86	0.42
1:AH:184:TYR:HE2	2:CJ:139:ALA:HB3	105.63	0.42
1:A7:172:ASN:HB2	2:C8:132:TYR:O	2.19	0.42
1:AT:49:THR:HG22	1:AT:50:GLY:H	1.82	0.42
2:C0:57:THR:O	2:C0:58:LEU:CB	2.66	0.42
2:CY:152:TYR:CE1	3:DY:60:PRO:CG	3.01	0.42
2:CI:152:TYR:HB3	2:CI:197:LEU:HD22	2.00	0.42
2:CU:152:TYR:CE1	3:EB:60:PRO:CG	250.63	0.42
2:CX:152:TYR:CE1	3:EE:60:PRO:CG	185.32	0.42
2:CX:153:GLN:CD	3:EE:55:SER:HB2	192.85	0.42
1:AK:72:LEU:O	1:AK:75:CYS:SG	2.76	0.42
1:AM:220:CYS:HA	1:AM:221:PRO:HD2	1.82	0.42
1:AV:65:GLN:HG2	1:AV:70:ARG:HD2	2.01	0.42
2:CW:153:GLN:CD	3:DW:55:SER:HB2	2.39	0.42
1:AB:30:VAL:HG13	1:AB:218:MET:CE	2.49	0.42
1:AD:170:PHE:HD2	1:AD:222:ARG:NH1	2.18	0.42
1:AL:170:PHE:HD2	1:AL:222:ARG:NH1	2.17	0.42
1:BH:170:PHE:HD2	1:BH:222:ARG:NH1	2.17	0.42
1:AZ:30:VAL:HG13	1:AZ:218:MET:CE	2.49	0.42
1:BA:72:LEU:O	1:BA:75:CYS:SG	2.76	0.42
1:A0:30:VAL:HG13	1:A0:218:MET:CE	2.49	0.42
1:AZ:65:GLN:HG2	1:AZ:70:ARG:HD2	2.01	0.42
1:AV:174:TRP:HB2	2:CW:188:LEU:CD2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:219:TYR:HD2	3:DD:39:ARG:HB2	1.79	0.42
1:BC:219:TYR:HD2	3:DR:39:ARG:HB2	135.43	0.42
1:AU:79:PHE:C	1:AU:79:PHE:CD1	2.92	0.42
1:BG:79:PHE:C	1:BG:79:PHE:CD1	2.92	0.42
2:CP:69:TRP:HZ2	2:CP:198:ILE:HG23	1.84	0.42
1:AR:62:SER:O	1:AR:63:THR:CB	2.66	0.42
2:C0:69:TRP:HZ2	2:C0:198:ILE:HG23	1.85	0.42
2:CW:69:TRP:HZ2	2:CW:198:ILE:HG23	1.85	0.42
1:AQ:62:SER:O	1:AQ:63:THR:CB	2.66	0.42
1:AW:62:SER:HB2	1:AW:73:ASN:ND2	2.27	0.42
1:BE:106:TRP:CZ2	1:BE:158:VAL:HG13	2.54	0.42
1:A8:106:TRP:CZ2	1:A8:158:VAL:HG13	2.54	0.42
2:CE:103:LEU:HD21	3:DA:163:PRO:HD3	2.01	0.42
3:DX:217:ARG:HD3	3:DX:218:HIS:CD2	2.54	0.42
2:C1:103:LEU:HD21	3:D2:163:PRO:HD3	2.01	0.42
2:CQ:65:LYS:CB	3:DY:135:ARG:HH21	125.22	0.42
3:DW:115:ALA:CB	3:DW:194:THR:OG1	2.67	0.42
3:DB:115:ALA:CB	3:DB:194:THR:OG1	2.67	0.42
2:CL:166:ARG:HD3	3:DL:110:PHE:O	2.20	0.42
1:AY:74:THR:O	1:AY:74:THR:HG22	2.19	0.42
1:AQ:74:THR:HG22	1:AQ:74:THR:O	2.19	0.42
1:A2:74:THR:HG22	1:A2:74:THR:O	2.19	0.42
1:AG:225:PRO:HA	1:AG:226:PRO:HD2	1.88	0.42
2:CF:129:VAL:HA	2:CF:130:PRO:HD3	1.78	0.42
2:C0:129:VAL:HA	2:C0:130:PRO:HD3	1.78	0.42
1:AO:176:ALA:C	1:AO:178:THR:H	2.22	0.42
2:CM:36:TYR:CE2	2:CM:130:PRO:CG	2.98	0.42
3:DC:79:SER:O	3:DC:81:SER:N	2.51	0.42
3:DG:79:SER:O	3:DG:81:SER:N	2.51	0.42
1:AW:128:VAL:HG13	1:AW:128:VAL:O	2.19	0.42
1:AD:128:VAL:HG13	1:AD:128:VAL:O	2.19	0.42
3:DU:79:SER:O	3:DU:81:SER:N	2.51	0.42
3:D3:79:SER:O	3:D3:81:SER:N	2.51	0.42
3:DO:84:GLU:CD	3:DO:84:GLU:H	2.21	0.42
1:AD:22:VAL:HG12	1:AD:23:ASP:N	2.33	0.42
1:BH:201:ALA:O	1:BH:202:HIS:HD2	2.01	0.42
4:F5:18:SER:O	4:F5:23:GLN:NE2	2.52	0.42
4:FC:32:ASN:HB3	4:FC:33:SER:H	1.58	0.42
2:CM:77:HIS:HE1	2:CM:144:GLU:HG2	1.84	0.42
2:C6:77:HIS:HE1	2:C6:144:GLU:HG2	1.84	0.42
2:CA:77:HIS:HE1	2:CA:144:GLU:HG2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:77:HIS:HE1	2:CH:144:GLU:HG2	1.84	0.42
1:A5:235:THR:HB	1:A5:236:ARG:H	1.65	0.42
2:CZ:95:HIS:CD2	2:CZ:95:HIS:C	2.93	0.42
4:FR:31:GLN:HA	4:FR:31:GLN:HE21	1.85	0.42
2:CA:95:HIS:C	2:CA:95:HIS:CD2	2.92	0.42
1:AL:144:PHE:CD2	1:AL:154:CYS:HB3	2.54	0.42
2:CM:115:ASN:HD22	3:DD:190:ALA:C	164.03	0.42
2:CL:207:GLN:HB3	3:D8:196:ILE:HG21	116.90	0.42
2:CZ:207:GLN:HB3	3:DQ:196:ILE:HG21	97.97	0.42
2:CY:115:ASN:HD22	3:DZ:190:ALA:C	2.17	0.42
2:CB:207:GLN:HB3	3:DF:196:ILE:HG21	160.06	0.42
2:CE:207:GLN:HB3	3:DF:196:ILE:HG21	2.01	0.42
3:D1:119:LYS:O	3:D1:120:PHE:CB	2.67	0.42
2:C4:212:THR:HG23	3:EC:188:LEU:HD22	1.96	0.42
2:C4:207:GLN:HB3	3:EC:196:ILE:HG21	2.01	0.42
2:CC:49:ASP:HA	2:CC:50:PRO:HD2	1.80	0.42
2:CE:49:ASP:HA	2:CE:50:PRO:HD2	1.81	0.42
2:CE:46:THR:CG2	3:DA:165:ASP:HA	2.38	0.42
3:DA:101:ARG:HH12	3:DA:165:ASP:HB3	1.84	0.42
3:DP:101:ARG:HH12	3:DP:165:ASP:HB3	1.84	0.42
1:AU:13:THR:C	1:AU:14:GLU:HG3	2.38	0.42
3:D8:101:ARG:HH12	3:D8:165:ASP:HB3	1.84	0.42
2:CZ:49:ASP:HA	2:CZ:50:PRO:HD2	1.80	0.42
1:AC:106:TRP:CZ2	1:AC:158:VAL:HG13	2.54	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:101:PHE:CD2	1:AK:143:VAL:CG1	2.90	0.42
1:AK:41:GLU:O	1:AK:42:THR:HB	2.19	0.42
1:AN:41:GLU:O	1:AN:42:THR:HB	2.19	0.42
1:AP:41:GLU:O	1:AP:42:THR:HB	2.19	0.42
3:D9:13:SER:O	3:DA:9:PRO:HD3	216.97	0.42
3:DC:13:SER:O	3:DD:9:PRO:HD3	2.20	0.42
3:DF:9:PRO:HD3	3:DJ:13:SER:O	2.20	0.42
3:DM:13:SER:O	3:DN:9:PRO:HD3	2.20	0.42
3:EA:13:SER:O	3:EB:9:PRO:HD3	2.20	0.42
4:FB:29:GLN:HB2	4:FB:30:TYR:HD1	1.84	0.42
4:FR:29:GLN:HB2	4:FR:30:TYR:HD1	1.84	0.42
4:F5:29:GLN:HB2	4:F5:30:TYR:HD1	1.84	0.42
3:DN:98:ALA:HB2	3:DN:220:VAL:HG21	2.01	0.42
3:DT:98:ALA:HB2	3:DT:220:VAL:HG21	2.01	0.42
1:A1:106:TRP:CZ2	1:A1:158:VAL:HG13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:13:SER:O	3:D3:9:PRO:HD3	2.20	0.42
1:A2:106:TRP:CZ2	1:A2:158:VAL:HG13	2.54	0.42
1:AY:101:PHE:O	1:AY:199:SER:OG	2.33	0.42
4:FZ:29:GLN:HB2	4:FZ:30:TYR:HD1	1.84	0.42
3:DW:98:ALA:HB2	3:DW:220:VAL:HG21	2.01	0.42
1:AI:175:GLY:N	1:AI:183:THR:O	2.53	0.42
1:AF:164:TRP:HE1	1:AF:187:LEU:CD1	2.28	0.42
1:AM:184:TYR:HE2	2:CO:139:ALA:HB3	105.63	0.42
1:AB:172:ASN:HB2	2:CD:132:TYR:O	97.37	0.42
1:AH:172:ASN:HB2	2:CJ:132:TYR:O	97.37	0.42
2:CN:135:THR:O	2:CN:137:GLU:N	2.53	0.42
1:AM:208:TYR:CE2	1:BD:103:TRP:CZ2	250.55	0.42
2:CW:57:THR:O	2:CW:58:LEU:CB	2.66	0.42
1:BI:174:TRP:HB2	2:CX:188:LEU:CD2	172.06	0.42
1:BI:184:TYR:HE2	2:CX:139:ALA:HB3	174.85	0.42
2:CX:135:THR:O	2:CX:137:GLU:N	2.53	0.42
1:AA:208:TYR:CE2	1:AE:103:TRP:CZ2	3.06	0.42
2:CG:58:LEU:HB3	2:CG:59:SER:H	1.65	0.42
1:A0:103:TRP:CZ2	1:A1:208:TYR:CE2	3.06	0.42
2:CW:33:THR:HG21	2:CW:160:HIS:O	2.20	0.42
1:AI:49:THR:CG2	1:AI:50:GLY:N	2.83	0.42
1:BH:49:THR:CG2	1:BH:50:GLY:N	2.83	0.42
2:CF:33:THR:HG21	2:CF:160:HIS:O	2.20	0.42
2:CY:57:THR:O	2:CY:59:SER:N	2.52	0.42
2:CI:33:THR:HG21	2:CI:160:HIS:O	2.20	0.42
2:CZ:33:THR:HG21	2:CZ:160:HIS:O	2.20	0.42
2:CU:153:GLN:CD	3:DU:55:SER:HB2	2.39	0.42
2:CE:152:TYR:CE1	3:DE:60:PRO:CG	3.01	0.42
1:AB:220:CYS:HA	1:AB:221:PRO:HD2	1.82	0.42
1:AQ:65:GLN:HG2	1:AQ:70:ARG:HD2	2.01	0.42
1:BB:65:GLN:HG2	1:BB:70:ARG:HD2	2.01	0.42
1:BH:72:LEU:O	1:BH:75:CYS:SG	2.76	0.42
1:AZ:72:LEU:O	1:AZ:75:CYS:SG	2.76	0.42
1:AW:72:LEU:O	1:AW:75:CYS:SG	2.76	0.42
1:BB:30:VAL:HG13	1:BB:218:MET:CE	2.49	0.42
1:BB:72:LEU:O	1:BB:75:CYS:SG	2.76	0.42
1:A5:79:PHE:CD1	1:A5:79:PHE:C	2.92	0.42
2:CF:74:SER:O	2:CF:75:HIS:C	2.58	0.42
1:A7:79:PHE:C	1:A7:79:PHE:CD1	2.92	0.42
1:BG:219:TYR:HD2	3:EC:39:ARG:HB2	1.79	0.42
2:C4:69:TRP:HZ2	2:C4:198:ILE:HG23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C5:69:TRP:HZ2	2:C5:198:ILE:HG23	1.85	0.42
2:CH:74:SER:O	2:CH:75:HIS:C	2.58	0.42
2:C6:69:TRP:HZ2	2:C6:198:ILE:HG23	1.85	0.42
1:A1:79:PHE:CD1	1:A1:79:PHE:C	2.92	0.42
1:BC:79:PHE:C	1:BC:79:PHE:CD1	2.92	0.42
2:CC:69:TRP:HZ2	2:CC:198:ILE:HG23	1.84	0.42
1:BC:184:TYR:HE2	2:CR:139:ALA:HB3	162.01	0.42
2:CD:74:SER:O	2:CD:75:HIS:C	2.58	0.42
2:CS:74:SER:O	2:CS:75:HIS:C	2.58	0.42
1:AY:184:TYR:HE2	2:CZ:139:ALA:HB3	1.84	0.42
2:CZ:135:THR:O	2:CZ:137:GLU:N	2.53	0.42
2:CB:74:SER:O	2:CB:75:HIS:C	2.58	0.42
1:AO:239:PHE:CD2	3:DO:226:GLN:NE2	2.87	0.42
1:AF:239:PHE:CD2	3:DH:226:GLN:NE2	81.58	0.42
2:CD:103:LEU:O	2:CD:223:ASN:ND2	2.49	0.42
2:CN:103:LEU:HD21	3:DJ:163:PRO:HD3	238.14	0.42
2:CF:103:LEU:HD21	3:DG:163:PRO:HD3	2.01	0.42
1:A4:43:LEU:HD23	1:A4:43:LEU:H	1.81	0.42
1:BF:74:THR:HG22	1:BF:74:THR:O	2.19	0.42
1:AV:74:THR:O	1:AV:74:THR:HG22	2.19	0.42
2:CD:129:VAL:HA	2:CD:130:PRO:HD3	1.78	0.42
1:A6:176:ALA:C	1:A6:178:THR:H	2.22	0.42
1:AU:176:ALA:C	1:AU:178:THR:H	2.22	0.42
2:CQ:36:TYR:CE2	2:CQ:130:PRO:CG	2.98	0.42
3:DT:179:VAL:HG12	3:DT:181:GLY:N	2.32	0.42
3:EC:179:VAL:HG12	3:EC:181:GLY:N	2.32	0.42
2:CS:216:ALA:HA	2:CS:217:PRO:HD3	1.78	0.42
1:A6:107:PHE:CE1	1:A6:196:LEU:HB2	2.55	0.42
1:AT:107:PHE:CE1	1:AT:196:LEU:HB2	2.55	0.42
1:AC:107:PHE:CE1	1:AC:196:LEU:HB2	2.55	0.42
1:AN:107:PHE:CE1	1:AN:196:LEU:HB2	2.55	0.42
1:AS:107:PHE:CE1	1:AS:196:LEU:HB2	2.55	0.42
1:A6:128:VAL:HG13	1:A6:128:VAL:O	2.20	0.42
1:A1:128:VAL:HG13	1:A1:128:VAL:O	2.19	0.42
1:BC:128:VAL:HG13	1:BC:128:VAL:O	2.19	0.42
1:AF:128:VAL:HG13	1:AF:128:VAL:O	2.19	0.42
4:FV:18:SER:O	4:FV:23:GLN:NE2	2.52	0.42
4:FM:18:SER:O	4:FM:23:GLN:NE2	2.52	0.42
1:AW:144:PHE:CD2	1:AW:154:CYS:HB3	2.54	0.42
2:CN:77:HIS:HE1	2:CN:144:GLU:HG2	1.84	0.42
3:DY:36:VAL:HA	3:DY:37:PRO:HD3	1.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CX:77:HIS:HE1	2:CX:144:GLU:HG2	1.84	0.42
4:FP:32:ASN:HB3	4:FP:33:SER:H	1.58	0.42
1:AA:92:THR:HB	1:AA:93:THR:H	1.62	0.42
1:A8:144:PHE:CD2	1:A8:154:CYS:HB3	2.54	0.42
1:BI:92:THR:HB	1:BI:93:THR:H	1.62	0.42
1:A4:234:LYS:HA	1:A4:234:LYS:HD3	1.89	0.42
4:F3:31:GLN:HE21	4:F3:31:GLN:HA	1.85	0.42
2:CK:22:THR:HG23	2:CK:22:THR:O	2.18	0.42
2:CN:95:HIS:CD2	2:CN:95:HIS:C	2.93	0.42
2:CW:95:HIS:CD2	2:CW:95:HIS:C	2.93	0.42
2:CU:22:THR:HG23	2:CU:22:THR:O	2.18	0.42
4:F6:31:GLN:HA	4:F6:31:GLN:HE21	1.85	0.42
2:CU:77:HIS:HE1	2:CU:144:GLU:HG2	1.84	0.42
2:CL:115:ASN:C	3:DK:119:LYS:HZ3	109.70	0.42
2:CD:207:GLN:HB3	3:D4:196:ILE:HG21	162.63	0.42
2:CG:117:SER:HB3	3:D3:192:THR:CG2	263.16	0.42
2:CS:207:GLN:HB3	3:EA:196:ILE:HG21	171.80	0.42
2:CR:49:ASP:HA	2:CR:50:PRO:HD2	1.80	0.42
3:DD:101:ARG:HH12	3:DD:165:ASP:HB3	1.84	0.42
1:A8:101:PHE:O	1:A8:199:SER:OG	2.33	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: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:AS:41:GLU:O	1:AS:42:THR:HB	2.19	0.42
1:AS:87:GLN:HA	1:AS:153:ALA:HB2	2.02	0.42
1:AV:121:LEU:HD21	1:AW:206:GLY:CA	2.47	0.42
1:AW:106:TRP:CZ2	1:AW:158:VAL:HG13	2.54	0.42
1:BA:40:VAL:HB	1:BA:68:TRP:CH2	2.53	0.42
1:BE:87:GLN:HA	1:BE:153:ALA:HB2	2.02	0.42
1:BF:146:ILE:HG21	1:BF:146:ILE:HD13	1.74	0.42
4:FA:29:GLN:HB2	4:FA:30:TYR:HD1	1.84	0.42
3:EB:98:ALA:HB2	3:EB:220:VAL:HG21	2.01	0.42
3:DK:98:ALA:HB2	3:DK:220:VAL:HG21	2.01	0.42
1:A4:143:VAL:H	3:D6:14:PHE:CB	2.28	0.42
3:D1:13:SER:O	3:D2:9:PRO:HD3	2.20	0.42
4:F1:29:GLN:HB2	4:F1:30:TYR:HD1	1.84	0.42
1:AY:139:SER:HA	1:AY:140:PRO:HD3	1.62	0.42
3:D7:98:ALA:HB2	3:D7:220:VAL:HG21	2.01	0.42
1:AC:175:GLY:N	1:AC:183:THR:O	2.53	0.42
1:AL:164:TRP:HE1	1:AL:187:LEU:CD1	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:175:GLY:N	1:AD:183:THR:O	2.53	0.42
1:A4:175:GLY:N	1:A4:183:THR:O	2.52	0.42
1:BB:175:GLY:N	1:BB:183:THR:O	2.52	0.42
1:AR:175:GLY:N	1:AR:183:THR:O	2.52	0.42
1:BI:175:GLY:N	1:BI:183:THR:O	2.52	0.42
1:AT:175:GLY:N	1:AT:183:THR:O	2.52	0.42
1:AG:172:ASN:HB2	2:CI:132:TYR:O	97.37	0.42
1:AK:174:TRP:HB2	2:CK:188:LEU:CD2	2.44	0.42
1:BD:172:ASN:HB2	2:CS:132:TYR:O	156.68	0.42
2:CA:135:THR:O	2:CA:137:GLU:N	2.53	0.42
2:CE:135:THR:O	2:CE:137:GLU:N	2.53	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
1:AF:174:TRP:HB2	2:CH:188:LEU:CD2	102.19	0.42
1:AH:184:TYR:HE2	2:CH:139:ALA:HB3	1.84	0.42
1:AL:172:ASN:HB2	2:CN:132:TYR:O	97.37	0.42
1:AF:172:ASN:HB2	2:CF:132:TYR:O	2.19	0.42
1:AH:172:ASN:HB2	2:CH:132:TYR:O	2.19	0.42
1:AL:172:ASN:HB2	2:CL:132:TYR:O	2.19	0.42
2:CL:135:THR:O	2:CL:137:GLU:N	2.53	0.42
1:BB:172:ASN:HB2	2:CQ:132:TYR:O	127.94	0.42
1:A7:184:TYR:HE2	2:C8:139:ALA:HB3	1.84	0.42
1:AG:49:THR:CG2	1:AG:50:GLY:N	2.83	0.42
2:CA:58:LEU:HB3	2:CA:59:SER:H	1.65	0.42
2:C4:57:THR:O	2:C4:59:SER:N	2.52	0.42
1:AC:49:THR:CG2	1:AC:50:GLY:N	2.83	0.42
1:AW:184:TYR:HE2	2:CX:139:ALA:HB3	1.84	0.42
1:AN:49:THR:CG2	1:AN:50:GLY:N	2.83	0.42
2:CJ:57:THR:O	2:CJ:58:LEU:CB	2.66	0.42
2:CN:33:THR:HG21	2:CN:160:HIS:O	2.20	0.42
1:A0:115:THR:HG23	1:A0:133:LEU:N	2.25	0.42
2:CD:33:THR:HG21	2:CD:160:HIS:O	2.20	0.42
2:C4:33:THR:HG21	2:C4:160:HIS:O	2.20	0.42
1:A3:208:TYR:CE2	1:A7:103:TRP:CZ2	3.06	0.42
2:C2:57:THR:O	2:C2:59:SER:N	2.52	0.42
2:CA:33:THR:HG21	2:CA:160:HIS:O	2.20	0.42
2:CC:33:THR:HG21	2:CC:160:HIS:O	2.20	0.42
1:AY:103:TRP:CZ2	1:AZ:208:TYR:CE2	3.06	0.42
1:AV:49:THR:CG2	1:AV:50:GLY:N	2.83	0.42
2:CP:33:THR:HG21	2:CP:160:HIS:O	2.20	0.42
2:CX:153:GLN:CD	3:DX:55:SER:HB2	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:170:PHE:HD2	1:AA:222:ARG:NH1	2.18	0.42
1:AM:170:PHE:HD2	1:AM:222:ARG:NH1	2.17	0.42
2:C9:152:TYR:HB3	2:C9:197:LEU:HD22	2.00	0.42
1:AH:170:PHE:HD2	1:AH:222:ARG:NH1	2.17	0.42
2:C7:152:TYR:CE1	3:D7:60:PRO:CG	3.01	0.42
1:A3:30:VAL:HG13	1:A3:218:MET:CE	2.49	0.42
1:BG:30:VAL:HG13	1:BG:218:MET:CE	2.49	0.42
2:C8:153:GLN:CD	3:D8:55:SER:HB2	2.39	0.42
1:AU:30:VAL:HG13	1:AU:218:MET:CE	2.49	0.42
1:AO:65:GLN:HG2	1:AO:70:ARG:HD2	2.01	0.42
1:A0:170:PHE:HD2	1:A0:222:ARG:NH1	2.18	0.42
2:CW:135:THR:O	2:CW:137:GLU:N	2.53	0.42
2:CT:134:HIS:HB3	2:CT:135:THR:H	1.46	0.42
1:AJ:79:PHE:CD1	1:AJ:79:PHE:C	2.92	0.42
1:AD:219:TYR:HA	3:DF:39:ARG:HA	101.21	0.42
1:AP:219:TYR:HA	3:DP:39:ARG:HA	2.02	0.42
1:A6:219:TYR:HA	3:D7:39:ARG:HA	2.02	0.42
1:AK:62:SER:O	1:AK:63:THR:CB	2.66	0.42
3:D1:75:GLN:NE2	3:D1:184:GLN:OE1	2.49	0.42
2:CH:69:TRP:HZ2	2:CH:198:ILE:HG23	1.85	0.42
2:C5:135:THR:O	2:C5:137:GLU:N	2.53	0.42
2:CO:69:TRP:HZ2	2:CO:198:ILE:HG23	1.85	0.42
2:CY:69:TRP:HZ2	2:CY:198:ILE:HG23	1.84	0.42
3:DY:56:ILE:CG1	3:DY:74:PHE:CE1	2.98	0.42
1:AS:62:SER:HB2	1:AS:73:ASN:ND2	2.27	0.42
1:A4:62:SER:O	1:A4:63:THR:CB	2.66	0.42
1:AI:239:PHE:CD2	3:DK:226:GLN:NE2	278.15	0.42
1:AO:239:PHE:CD2	3:DS:226:GLN:NE2	157.63	0.42
1:AB:239:PHE:CD2	3:DB:226:GLN:NE2	2.87	0.42
1:AS:239:PHE:CD2	3:DT:226:GLN:NE2	2.87	0.42
1:BD:43:LEU:H	1:BD:43:LEU:HD23	1.81	0.42
3:D4:217:ARG:HD3	3:D4:218:HIS:CD2	2.54	0.42
3:DQ:217:ARG:HD3	3:DQ:218:HIS:CD2	2.54	0.42
3:D3:217:ARG:HD3	3:D3:218:HIS:CD2	2.54	0.42
2:CY:103:LEU:O	2:CY:223:ASN:ND2	2.49	0.42
3:DD:115:ALA:CB	3:DD:194:THR:OG1	2.67	0.42
2:CR:166:ARG:HD3	3:DR:110:PHE:O	2.20	0.42
2:CP:166:ARG:HD3	3:DP:110:PHE:O	2.20	0.42
2:CK:23:ILE:CD1	2:CK:23:ILE:N	2.81	0.42
1:AN:224:ILE:HA	1:AN:225:PRO:HD2	1.86	0.42
1:AV:224:ILE:HA	1:AV:225:PRO:HD2	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:224:ILE:HA	1:A2:225:PRO:HD2	1.86	0.42
1:AY:224:ILE:HA	1:AY:225:PRO:HD2	1.86	0.42
2:CP:129:VAL:HA	2:CP:130:PRO:HD3	1.78	0.42
1:AF:107:PHE:CE1	1:AF:196:LEU:HB2	2.55	0.42
1:AJ:107:PHE:CE1	1:AJ:196:LEU:HB2	2.55	0.42
1:A1:55:HIS:O	1:A1:194:SER:HB2	2.18	0.42
1:AX:109:VAL:HG22	1:AX:191:HIS:HD2	1.82	0.42
3:DB:79:SER:O	3:DB:81:SER:N	2.51	0.42
1:AN:128:VAL:O	1:AN:128:VAL:HG13	2.19	0.42
1:AP:128:VAL:HG13	1:AP:128:VAL:O	2.19	0.42
1:A2:128:VAL:O	1:A2:128:VAL:HG13	2.19	0.42
1:A4:26:VAL:HG12	1:A4:27:HIS:N	2.32	0.42
3:DL:84:GLU:H	3:DL:84:GLU:CD	2.21	0.42
3:ED:84:GLU:H	3:ED:84:GLU:CD	2.20	0.42
1:AY:92:THR:HB	1:AY:93:THR:H	1.62	0.42
2:C5:77:HIS:HE1	2:C5:144:GLU:HG2	1.84	0.42
1:AH:144:PHE:CD2	1:AH:154:CYS:HB3	2.54	0.42
1:AI:144:PHE:CD2	1:AI:154:CYS:HB3	2.54	0.42
2:CH:95:HIS:CD2	2:CH:95:HIS:C	2.93	0.42
4:FA:21:ILE:HG22	4:FA:21:ILE:O	2.20	0.42
4:FT:31:GLN:HA	4:FT:31:GLN:HE21	1.85	0.42
4:FD:31:GLN:HE21	4:FD:31:GLN:HA	1.85	0.42
4:FO:21:ILE:HG22	4:FO:21:ILE:O	2.20	0.42
4:FP:21:ILE:O	4:FP:21:ILE:HG22	2.20	0.42
4:FQ:21:ILE:HG22	4:FQ:21:ILE:O	2.20	0.42
2:CL:77:HIS:HE1	2:CL:144:GLU:HG2	1.84	0.42
2:CW:212:THR:HG23	3:DJ:188:LEU:HD22	1.96	0.42
2:CI:207:GLN:HB3	3:DX:196:ILE:HG21	2.00	0.42
2:C2:117:SER:HB3	3:DH:192:THR:CG2	263.16	0.42
2:CL:216:ALA:HA	2:CL:217:PRO:HD3	1.78	0.42
2:CU:117:SER:HB3	3:DG:192:THR:CG2	256.58	0.42
3:DS:101:ARG:HH12	3:DS:165:ASP:HB3	1.84	0.42
1:AI:87:GLN:HA	1:AI:153:ALA:HB2	2.02	0.42
1:AA:206:GLY:CA	1:AN:121:LEU:HD21	265.12	0.42
1:AR:41:GLU:O	1:AR:42:THR:HB	2.19	0.42
1:AR:87:GLN:O	1:AR:88:PHE:CB	2.62	0.42
1:AT:87:GLN:HA	1:AT:153:ALA:HB2	2.02	0.42
1:BA:41:GLU:O	1:BA:42:THR:HB	2.19	0.42
1:BB:106:TRP:CZ2	1:BB:158:VAL:HG13	2.54	0.42
1:BC:41:GLU:O	1:BC:42:THR:HB	2.19	0.42
1:BH:106:TRP:CZ2	1:BH:158:VAL:HG13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:9:PRO:HD3	3:DD:13:SER:O	216.41	0.42
3:DG:8:VAL:CG1	3:DG:9:PRO:HD2	2.39	0.42
1:AI:74:THR:O	1:AI:74:THR:HG22	2.19	0.42
3:DX:8:VAL:CG1	3:DX:9:PRO:HD2	2.39	0.42
3:DJ:98:ALA:HB2	3:DJ:220:VAL:HG21	2.01	0.42
3:D6:98:ALA:HB2	3:D6:220:VAL:HG21	2.01	0.42
1:A2:137:GLY:HA2	1:AY:38:PHE:CD1	2.49	0.42
1:AZ:146:ILE:O	1:AZ:146:ILE:HG22	2.17	0.42
1:AK:188:PRO:HG3	3:DL:176:VAL:CG1	2.50	0.42
1:AI:188:PRO:HG3	3:DJ:176:VAL:CG1	2.50	0.42
1:BA:175:GLY:N	1:BA:183:THR:O	2.53	0.42
1:AX:188:PRO:HG3	3:DU:176:VAL:CG1	2.50	0.42
1:AA:172:ASN:HB2	2:CC:132:TYR:O	97.37	0.42
2:CC:135:THR:O	2:CC:137:GLU:N	2.53	0.42
2:CM:135:THR:HB	2:CM:139:ALA:CB	2.50	0.42
2:C7:135:THR:O	2:C7:137:GLU:N	2.53	0.42
2:CB:135:THR:O	2:CB:137:GLU:N	2.53	0.42
2:CB:135:THR:HB	2:CB:139:ALA:CB	2.50	0.42
1:AB:184:TYR:HE2	2:CB:139:ALA:HB3	1.84	0.42
2:CH:135:THR:HB	2:CH:139:ALA:CB	2.50	0.42
1:AG:103:TRP:CZ2	1:AH:208:TYR:CE2	3.06	0.42
1:AD:103:TRP:CZ2	1:AE:208:TYR:CE2	3.06	0.42
2:CF:55:GLY:HA2	2:CF:56:PRO:HD3	1.80	0.42
2:CD:55:GLY:HA2	2:CD:56:PRO:HD3	1.80	0.42
1:AJ:49:THR:CG2	1:AJ:50:GLY:N	2.83	0.42
1:AZ:48:LEU:HA	1:AZ:198:THR:OG1	2.20	0.42
1:BI:115:THR:HG23	1:BI:133:LEU:N	2.25	0.42
2:C8:57:THR:O	2:C8:59:SER:N	2.52	0.42
2:C1:57:THR:O	2:C1:59:SER:N	2.52	0.42
1:AI:48:LEU:HA	1:AI:198:THR:OG1	2.20	0.42
2:CS:57:THR:O	2:CS:58:LEU:CB	2.66	0.42
1:AW:103:TRP:CZ2	1:AX:208:TYR:CE2	3.06	0.42
2:CP:135:THR:O	2:CP:137:GLU:N	2.53	0.42
2:CZ:58:LEU:HB3	2:CZ:59:SER:H	1.65	0.42
2:CR:33:THR:HG21	2:CR:160:HIS:O	2.20	0.42
2:C2:33:THR:HG21	2:C2:160:HIS:O	2.20	0.42
2:CS:33:THR:HG21	2:CS:160:HIS:O	2.20	0.42
2:CX:33:THR:HG21	2:CX:160:HIS:O	2.20	0.42
2:C6:33:THR:HG21	2:C6:160:HIS:O	2.20	0.42
1:A9:170:PHE:HD2	1:A9:222:ARG:NH1	2.18	0.42
1:AE:71:LEU:O	1:AE:218:MET:HE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:170:PHE:HD2	1:BF:222:ARG:NH1	2.17	0.42
1:BB:170:PHE:CD2	1:BB:222:ARG:CZ	2.87	0.42
1:BI:30:VAL:HG13	1:BI:218:MET:CE	2.49	0.42
1:BA:65:GLN:HG2	1:BA:70:ARG:HD2	2.01	0.42
2:CT:135:THR:HB	2:CT:139:ALA:CB	2.50	0.42
1:AE:79:PHE:CE2	1:AE:160:TYR:CD2	3.08	0.42
1:AB:79:PHE:CE2	1:AB:160:TYR:CD2	3.08	0.42
1:AD:219:TYR:HA	3:DD:39:ARG:HA	2.02	0.42
1:AH:219:TYR:HA	3:DJ:39:ARG:HA	75.70	0.42
1:AJ:219:TYR:HA	3:DL:39:ARG:HA	234.08	0.42
1:AI:219:TYR:HA	3:DI:39:ARG:HA	2.02	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:AO:219:TYR:HA	3:DS:39:ARG:HA	108.10	0.42
1:A9:219:TYR:HA	3:DA:39:ARG:HA	222.38	0.42
1:AM:219:TYR:HD2	3:DO:39:ARG:HB2	74.53	0.42
1:BD:219:TYR:HA	3:DS:39:ARG:HA	140.37	0.42
1:AW:219:TYR:HA	3:DX:39:ARG:HA	2.02	0.42
3:DU:75:GLN:NE2	3:DU:184:GLN:OE1	2.49	0.42
2:CV:74:SER:O	2:CV:75:HIS:C	2.58	0.42
2:CR:69:TRP:HZ2	2:CR:198:ILE:HG23	1.84	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
3:DJ:75:GLN:NE2	3:DJ:184:GLN:OE1	2.49	0.42
2:CQ:69:TRP:HZ2	2:CQ:198:ILE:HG23	1.84	0.42
2:CI:74:SER:O	2:CI:75:HIS:C	2.58	0.42
1:BF:106:TRP:CZ2	1:BF:158:VAL:HG13	2.54	0.42
1:AA:239:PHE:CD2	3:DC:226:GLN:NE2	81.58	0.42
1:AC:239:PHE:CD2	3:DC:226:GLN:NE2	2.87	0.42
1:BD:239:PHE:CD2	3:DS:226:GLN:NE2	166.20	0.42
1:AU:239:PHE:CD2	3:DV:226:GLN:NE2	2.87	0.42
3:D2:217:ARG:HD3	3:D2:218:HIS:CD2	2.54	0.42
2:CB:103:LEU:HD21	3:DC:163:PRO:HD3	2.01	0.42
1:A3:110:GLY:H	1:A4:242:ASN:ND2	2.12	0.42
2:CK:166:ARG:HD3	3:DK:110:PHE:O	2.20	0.42
2:CG:166:ARG:HD3	3:DG:110:PHE:O	2.20	0.42
1:A3:74:THR:HG22	1:A3:74:THR:O	2.19	0.42
1:AW:74:THR:O	1:AW:74:THR:HG22	2.19	0.42
1:AO:107:PHE:CE1	1:AO:196:LEU:HB2	2.55	0.42
1:A4:107:PHE:CE1	1:A4:196:LEU:HB2	2.55	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:A3:55:HIS:O	1:A3:194:SER:HB2	2.17	0.42
1:AH:128:VAL:O	1:AH:128:VAL:HG13	2.19	0.42
1:BD:128:VAL:HG13	1:BD:128:VAL:O	2.19	0.42
1:AM:128:VAL:HG13	1:AM:128:VAL:O	2.19	0.42
3:D7:79:SER:O	3:D7:81:SER:N	2.51	0.42
1:A8:22:VAL:HG12	1:A8:23:ASP:N	2.33	0.42
3:DI:84:GLU:H	3:DI:84:GLU:CD	2.21	0.42
3:D9:84:GLU:CD	3:D9:84:GLU:H	2.21	0.42
1:AB:20:SER:HA	1:AB:21:PRO:HD3	1.92	0.42
2:CB:77:HIS:HE1	2:CB:144:GLU:HG2	1.84	0.42
1:AN:235:THR:HB	1:AN:236:ARG:H	1.65	0.42
2:CO:77:HIS:HE1	2:CO:144:GLU:HG2	1.84	0.42
1:AP:144:PHE:CD2	1:AP:154:CYS:HB3	2.54	0.42
1:AS:92:THR:HB	1:AS:93:THR:H	1.62	0.42
4:F7:31:GLN:HE21	4:F7:31:GLN:HA	1.85	0.42
4:FK:31:GLN:HE21	4:FK:31:GLN:HA	1.85	0.42
1:AM:234:LYS:HD3	1:AM:234:LYS:HA	1.89	0.42
2:CB:95:HIS:CD2	2:CB:95:HIS:C	2.93	0.42
4:F1:31:GLN:HA	4:F1:31:GLN:HE21	1.85	0.42
1:BH:234:LYS:HD3	1:BH:234:LYS:HA	1.89	0.42
4:FH:31:GLN:HA	4:FH:31:GLN:HE21	1.85	0.42
4:F7:21:ILE:HG22	4:F7:21:ILE:O	2.20	0.42
4:FR:21:ILE:HG22	4:FR:21:ILE:O	2.20	0.42
1:AU:92:THR:HB	1:AU:93:THR:H	1.62	0.42
2:CH:207:GLN:HB3	3:DS:196:ILE:HG21	172.15	0.42
2:CW:207:GLN:HB3	3:DJ:196:ILE:HG21	2.01	0.42
3:DB:119:LYS:O	3:DB:120:PHE:CB	2.67	0.42
2:C5:207:GLN:HB3	3:DG:196:ILE:HG21	2.01	0.42
3:EB:119:LYS:O	3:EB:120:PHE:CB	2.67	0.42
2:C9:115:ASN:HD22	3:DL:190:ALA:C	94.27	0.42
2:C9:207:GLN:HB3	3:DL:196:ILE:HG21	97.97	0.42
3:DB:103:SER:HB3	3:DB:159:PRO:C	2.40	0.42
3:DE:101:ARG:HH12	3:DE:165:ASP:HB3	1.84	0.42
3:DI:103:SER:HB3	3:DI:159:PRO:C	2.40	0.42
3:DL:103:SER:HB3	3:DL:159:PRO:C	2.40	0.42
3:DT:101:ARG:HH12	3:DT:165:ASP:HB3	1.84	0.42
2:CU:46:THR:CG2	3:DV:165:ASP:HA	2.38	0.42
3:DW:101:ARG:HH12	3:DW:165:ASP:HB3	1.84	0.42
1:A9:41:GLU:O	1:A9:42:THR:HB	2.19	0.42
1:AL:41:GLU:O	1:AL:42:THR:HB	2.19	0.42
1:AM:106:TRP:CZ2	1:AM:158:VAL:HG13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:87:GLN:HA	1:AM:153:ALA:HB2	2.02	0.42
1:AN:139:SER:HA	1:AN:140:PRO:HD3	1.61	0.42
1:AX:41:GLU:O	1:AX:42:THR:HB	2.19	0.42
1:BC:146:ILE:HD13	1:BC:146:ILE:HG21	1.74	0.42
3:DG:13:SER:O	3:DH:9:PRO:HD3	2.20	0.42
3:DK:13:SER:O	3:DL:9:PRO:HD3	2.20	0.42
3:DS:13:SER:O	3:DT:9:PRO:HD3	2.20	0.42
3:EB:13:SER:O	3:EC:9:PRO:HD3	2.20	0.42
4:FH:29:GLN:HB2	4:FH:30:TYR:HD1	1.84	0.42
4:FP:29:GLN:HB2	4:FP:30:TYR:HD1	1.84	0.42
1:BG:106:TRP:CZ2	1:BG:158:VAL:HG13	2.54	0.42
1:A4:106:TRP:CZ2	1:A4:158:VAL:HG13	2.54	0.42
3:D3:13:SER:O	3:DZ:9:PRO:HD3	2.20	0.42
4:F3:29:GLN:HB2	4:F3:30:TYR:HD1	1.84	0.42
3:D0:13:SER:O	3:D1:9:PRO:HD3	2.20	0.42
3:DY:98:ALA:HB2	3:DY:220:VAL:HG21	2.01	0.42
3:DQ:98:ALA:HB2	3:DQ:220:VAL:HG21	2.01	0.42
1:AL:188:PRO:HG3	3:DJ:176:VAL:CG1	262.43	0.42
1:AD:188:PRO:HG3	3:DE:176:VAL:CG1	2.50	0.42
1:A6:87:GLN:HA	1:A6:153:ALA:HB2	2.02	0.42
1:AP:188:PRO:HG3	3:DQ:176:VAL:CG1	2.50	0.42
1:A3:188:PRO:HG3	3:D5:176:VAL:CG1	2.50	0.42
2:CV:135:THR:O	2:CV:137:GLU:N	2.53	0.42
2:CV:135:THR:HB	2:CV:139:ALA:CB	2.50	0.42
1:AE:184:TYR:HE2	2:CG:139:ALA:HB3	135.53	0.42
1:AK:184:TYR:HE2	2:CM:139:ALA:HB3	105.63	0.42
2:CG:135:THR:HB	2:CG:139:ALA:CB	2.50	0.42
2:CS:135:THR:O	2:CS:137:GLU:N	2.53	0.42
1:BF:172:ASN:HB2	2:CU:132:TYR:O	252.52	0.42
1:AB:184:TYR:CE2	2:CB:139:ALA:CB	3.03	0.42
2:CD:135:THR:HB	2:CD:139:ALA:CB	2.50	0.42
2:CH:135:THR:O	2:CH:137:GLU:N	2.53	0.42
2:CH:57:THR:O	2:CH:58:LEU:CB	2.66	0.42
1:AD:49:THR:CG2	1:AD:50:GLY:N	2.83	0.42
2:C4:55:GLY:HA2	2:C4:56:PRO:HD3	1.80	0.42
1:BG:49:THR:CG2	1:BG:50:GLY:N	2.83	0.42
2:CM:55:GLY:HA2	2:CM:56:PRO:HD3	1.80	0.42
2:CP:57:THR:O	2:CP:59:SER:N	2.52	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:AI:103:TRP:CZ2	1:AJ:208:TYR:CE2	3.06	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:103:TRP:CZ2	1:AG:208:TYR:CE2	3.06	0.42
2:CP:135:THR:HB	2:CP:139:ALA:CB	2.50	0.42
1:AU:103:TRP:CZ2	1:AV:208:TYR:CE2	3.06	0.42
2:CY:57:THR:O	2:CY:58:LEU:CB	2.66	0.42
2:C8:33:THR:HG21	2:C8:160:HIS:O	2.20	0.42
2:C4:25:ASN:O	2:C4:26:SER:HB3	2.18	0.42
1:AE:170:PHE:HD2	1:AE:222:ARG:NH1	2.17	0.42
1:A8:65:GLN:HG2	1:A8:70:ARG:HD2	2.01	0.42
1:AF:170:PHE:HD2	1:AF:222:ARG:NH1	2.17	0.42
1:AZ:170:PHE:HD2	1:AZ:222:ARG:NH1	2.17	0.42
1:BA:30:VAL:HG13	1:BA:218:MET:CE	2.49	0.42
1:A1:72:LEU:O	1:A1:75:CYS:SG	2.76	0.42
1:AX:72:LEU:O	1:AX:75:CYS:SG	2.76	0.42
1:BB:170:PHE:HD2	1:BB:222:ARG:NH1	2.17	0.42
2:C1:84:PRO:HD2	2:C1:186:LEU:CD2	2.48	0.42
1:AV:184:TYR:HE2	2:CW:139:ALA:HB3	1.84	0.42
1:AS:184:TYR:HE2	2:CT:139:ALA:HB3	1.84	0.42
2:CT:135:THR:O	2:CT:137:GLU:N	2.53	0.42
1:AE:79:PHE:C	1:AE:79:PHE:CD1	2.92	0.42
1:BD:79:PHE:CE2	1:BD:160:TYR:CD2	3.08	0.42
1:A7:219:TYR:HD2	3:D8:39:ARG:HB2	1.79	0.42
1:AN:219:TYR:HA	3:DN:39:ARG:HA	2.02	0.42
1:AF:219:TYR:HA	3:DH:39:ARG:HA	75.69	0.42
1:BA:79:PHE:CE2	1:BA:160:TYR:CD2	3.08	0.42
2:CQ:135:THR:HB	2:CQ:139:ALA:CB	2.50	0.42
1:A1:219:TYR:HA	3:D2:39:ARG:HA	2.02	0.42
1:A8:219:TYR:HA	3:D9:39:ARG:HA	2.02	0.42
2:C1:135:THR:O	2:C1:137:GLU:N	2.53	0.42
1:AV:79:PHE:C	1:AV:79:PHE:CD1	2.92	0.42
1:A1:174:TRP:HB2	2:C2:188:LEU:CD2	2.44	0.42
2:CZ:69:TRP:HZ2	2:CZ:198:ILE:HG23	1.85	0.42
1:AV:219:TYR:HA	3:DW:39:ARG:HA	2.02	0.42
2:C9:135:THR:O	2:C9:137:GLU:N	2.53	0.42
2:C7:69:TRP:HZ2	2:C7:198:ILE:HG23	1.85	0.42
1:AB:62:SER:HB2	1:AB:73:ASN:ND2	2.27	0.42
2:CE:69:TRP:HZ2	2:CE:198:ILE:HG23	1.84	0.42
3:DO:75:GLN:NE2	3:DO:184:GLN:OE1	2.49	0.42
2:CU:135:THR:O	2:CU:137:GLU:N	2.53	0.42
2:CR:135:THR:HB	2:CR:139:ALA:CB	2.50	0.42
1:BB:219:TYR:HA	3:DQ:39:ARG:HA	112.69	0.42
2:CD:69:TRP:HZ2	2:CD:198:ILE:HG23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DS:75:GLN:NE2	3:DS:184:GLN:OE1	2.49	0.42
3:DN:75:GLN:NE2	3:DN:184:GLN:OE1	2.49	0.42
2:C0:135:THR:O	2:C0:137:GLU:N	2.53	0.42
1:BI:106:TRP:CZ2	1:BI:158:VAL:HG13	2.54	0.42
1:BF:239:PHE:CD2	3:EB:226:GLN:NE2	2.87	0.42
1:AG:43:LEU:N	1:AG:43:LEU:CD2	2.74	0.42
2:CD:103:LEU:HD21	3:DE:163:PRO:HD3	2.01	0.42
1:A0:239:PHE:CD2	3:D1:226:GLN:NE2	2.87	0.42
3:D5:217:ARG:HD3	3:D5:218:HIS:CD2	2.54	0.42
1:A9:43:LEU:HD23	1:A9:43:LEU:H	1.81	0.42
1:AG:191:HIS:HB2	1:AG:192:PHE:H	1.71	0.42
2:CZ:103:LEU:HD21	3:D0:163:PRO:HD3	2.01	0.42
2:CW:166:ARG:HD3	3:DW:110:PHE:O	2.20	0.42
2:CQ:166:ARG:HD3	3:DQ:110:PHE:O	2.20	0.42
2:CJ:166:ARG:HD3	3:DJ:110:PHE:O	2.20	0.42
2:CM:166:ARG:HD3	3:DM:110:PHE:O	2.20	0.42
2:CX:166:ARG:HD3	3:EE:110:PHE:O	167.34	0.42
2:C6:166:ARG:HD3	3:D6:110:PHE:O	2.20	0.42
1:AC:225:PRO:HA	1:AC:226:PRO:HD2	1.88	0.42
1:A8:224:ILE:HA	1:A8:225:PRO:HD2	1.86	0.42
2:CU:129:VAL:HA	2:CU:130:PRO:HD3	1.77	0.42
1:AE:176:ALA:C	1:AE:178:THR:H	2.22	0.42
1:A7:176:ALA:C	1:A7:178:THR:H	2.22	0.42
1:BG:176:ALA:C	1:BG:178:THR:H	2.22	0.42
1:AH:132:GLN:OE1	1:AI:66:LEU:HD21	2.20	0.42
1:AL:107:PHE:CE1	1:AL:196:LEU:HB2	2.55	0.42
1:AK:107:PHE:CE1	1:AK:196:LEU:HB2	2.55	0.42
1:AI:107:PHE:CE1	1:AI:196:LEU:HB2	2.55	0.42
1:AY:107:PHE:CE1	1:AY:196:LEU:HB2	2.55	0.42
1:BG:128:VAL:O	1:BG:128:VAL:HG13	2.19	0.42
1:A3:128:VAL:HG13	1:A3:128:VAL:O	2.19	0.42
1:AL:128:VAL:HG13	1:AL:128:VAL:O	2.19	0.42
1:AS:128:VAL:HG13	1:AS:128:VAL:O	2.19	0.42
1:A7:128:VAL:HG13	1:A7:128:VAL:O	2.19	0.42
1:AX:128:VAL:HG13	1:AX:128:VAL:O	2.19	0.42
4:FZ:18:SER:O	4:FZ:23:GLN:NE2	2.52	0.42
1:AT:20:SER:HA	1:AT:21:PRO:HD3	1.92	0.42
1:AG:92:THR:HB	1:AG:93:THR:H	1.62	0.42
1:BG:144:PHE:CD2	1:BG:154:CYS:HB3	2.54	0.42
1:A9:93:THR:O	1:A9:95:SER:N	2.53	0.42
2:CQ:95:HIS:CD2	2:CQ:95:HIS:C	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FS:21:ILE:O	4:FS:21:ILE:HG22	2.20	0.42
1:A2:234:LYS:HA	1:A2:234:LYS:HD3	1.89	0.42
4:F2:21:ILE:HG22	4:F2:21:ILE:O	2.20	0.42
4:FD:21:ILE:O	4:FD:21:ILE:HG22	2.20	0.42
4:FM:21:ILE:HG22	4:FM:21:ILE:O	2.20	0.42
2:CU:95:HIS:C	2:CU:95:HIS:CD2	2.93	0.42
2:CM:95:HIS:C	2:CM:95:HIS:CD2	2.93	0.42
4:FG:21:ILE:HG22	4:FG:21:ILE:O	2.20	0.42
2:CO:95:HIS:C	2:CO:95:HIS:CD2	2.93	0.42
4:FH:21:ILE:O	4:FH:21:ILE:HG22	2.20	0.42
1:AV:144:PHE:CD2	1:AV:154:CYS:HB3	2.54	0.42
2:CO:207:GLN:HB3	3:DP:196:ILE:HG21	2.01	0.42
2:CN:207:GLN:HB3	3:D2:196:ILE:HG21	2.01	0.42
2:CB:49:ASP:HA	2:CB:50:PRO:HD2	1.80	0.42
3:DA:103:SER:HB3	3:DA:159:PRO:C	2.40	0.42
2:CJ:46:THR:CG2	3:DK:165:ASP:HA	244.77	0.42
3:DW:103:SER:HB2	3:DW:159:PRO:HA	1.95	0.42
3:D2:101:ARG:HH12	3:D2:165:ASP:HB3	1.84	0.42
1:A9:146:ILE:HG21	1:A9:146:ILE:HD13	1.74	0.42
1:AB:41:GLU:O	1:AB:42:THR:HB	2.19	0.42
1:AC:87:GLN:HA	1:AC:153:ALA:HB2	2.02	0.42
1:AD:132:GLN:OE1	1:AE:66:LEU:HD21	2.20	0.42
1:AH:41:GLU:O	1:AH:42:THR:HB	2.19	0.42
1:AO:41:GLU:O	1:AO:42:THR:HB	2.19	0.42
1:AU:87:GLN:HA	1:AU:153:ALA:HB2	2.02	0.42
1:BA:88:PHE:CA	1:BA:207:CYS:HA	2.48	0.42
1:BD:106:TRP:CZ2	1:BD:158:VAL:HG13	2.54	0.42
1:BG:87:GLN:HA	1:BG:153:ALA:HB2	2.02	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
3:DE:9:PRO:HD3	3:DI:13:SER:O	148.07	0.42
3:DF:13:SER:O	3:DG:9:PRO:HD3	2.20	0.42
3:DJ:13:SER:O	3:DK:9:PRO:HD3	265.19	0.42
3:DQ:13:SER:O	3:DR:9:PRO:HD3	2.20	0.42
3:DX:13:SER:O	3:DY:9:PRO:HD3	2.20	0.42
4:FN:29:GLN:HB2	4:FN:30:TYR:HD1	1.84	0.42
4:F8:29:GLN:HB2	4:F8:30:TYR:HD1	1.84	0.42
1:BH:87:GLN:HA	1:BH:153:ALA:HB2	2.02	0.42
3:DL:98:ALA:HB2	3:DL:220:VAL:HG21	2.01	0.42
1:AF:112:PRO:CG	3:DI:223:PRO:HD3	72.12	0.42
1:A0:146:ILE:HD13	1:A0:146:ILE:HG21	1.74	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
3:D4:98:ALA:HB2	3:D4:220:VAL:HG21	2.01	0.42
1:BH:188:PRO:HG3	3:EE:176:VAL:CG1	2.50	0.42
1:AL:175:GLY:N	1:AL:183:THR:O	2.53	0.42
1:AF:188:PRO:HG3	3:DG:176:VAL:CG1	2.50	0.42
3:DV:98:ALA:HB2	3:DV:220:VAL:HG21	2.01	0.42
1:A2:188:PRO:HG3	3:DZ:176:VAL:CG1	2.50	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	266.27	0.42
1:AO:174:TRP:HB2	2:CS:188:LEU:CD2	97.19	0.42
1:A9:184:TYR:HE2	2:CA:139:ALA:HB3	263.90	0.42
2:CI:135:THR:HB	2:CI:139:ALA:CB	2.50	0.42
2:CS:135:THR:HB	2:CS:139:ALA:CB	2.50	0.42
1:A6:174:TRP:HB2	2:C7:188:LEU:CD2	2.44	0.42
2:CD:135:THR:O	2:CD:137:GLU:N	2.53	0.42
2:C8:135:THR:O	2:C8:137:GLU:N	2.53	0.42
1:A3:48:LEU:HA	1:A3:198:THR:OG1	2.20	0.42
1:BI:184:TYR:CE2	2:CX:139:ALA:CB	175.03	0.42
1:AJ:48:LEU:HA	1:AJ:198:THR:OG1	2.20	0.42
1:AO:49:THR:CG2	1:AO:50:GLY:N	2.83	0.42
2:C1:55:GLY:HA2	2:C1:56:PRO:HD3	1.80	0.42
1:A9:49:THR:CG2	1:A9:50:GLY:N	2.83	0.42
1:AM:48:LEU:HA	1:AM:198:THR:OG1	2.20	0.42
2:CB:33:THR:HG21	2:CB:160:HIS:O	2.20	0.42
1:AW:49:THR:CG2	1:AW:50:GLY:N	2.83	0.42
2:C7:33:THR:HG21	2:C7:160:HIS:O	2.20	0.42
1:AV:48:LEU:HA	1:AV:198:THR:OG1	2.20	0.42
1:AS:48:LEU:HA	1:AS:198:THR:OG1	2.20	0.42
2:CQ:153:GLN:HE22	3:DQ:55:SER:CB	2.33	0.42
1:A9:30:VAL:HG13	1:A9:218:MET:CE	2.49	0.42
1:AB:65:GLN:HG2	1:AB:70:ARG:HD2	2.01	0.42
2:C5:153:GLN:CD	3:D5:55:SER:HB2	2.39	0.42
2:C4:153:GLN:CD	3:D4:55:SER:HB2	2.39	0.42
1:A6:30:VAL:HG13	1:A6:218:MET:CE	2.49	0.42
1:A0:72:LEU:O	1:A0:75:CYS:SG	2.76	0.42
1:BG:65:GLN:HG2	1:BG:70:ARG:HD2	2.01	0.42
2:C8:88:LEU:C	2:C8:90:LYS:H	2.23	0.42
2:CN:88:LEU:C	2:CN:90:LYS:H	2.23	0.42
2:CO:83:LEU:HA	2:CO:84:PRO:HA	1.60	0.42
1:AA:79:PHE:CE2	1:AA:160:TYR:CD2	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:AB:219:TYR:HA	3:DB:39:ARG:HA	2.02	0.42
1:AL:219:TYR:HA	3:DL:39:ARG:HA	2.02	0.42
1:AA:219:TYR:HA	3:DC:39:ARG:HA	75.70	0.42
1:AE:219:TYR:HA	3:DE:39:ARG:HA	2.02	0.42
1:AG:219:TYR:HA	3:DG:39:ARG:HA	2.02	0.42
1:AG:219:TYR:HA	3:DI:39:ARG:HA	75.70	0.42
2:CU:69:TRP:HZ2	2:CU:198:ILE:HG23	1.85	0.42
2:CV:69:TRP:HZ2	2:CV:198:ILE:HG23	1.85	0.42
1:BG:219:TYR:HA	3:EC:39:ARG:HA	2.02	0.42
2:C6:74:SER:O	2:C6:75:HIS:C	2.58	0.42
1:AE:62:SER:HB2	1:AE:73:ASN:ND2	2.27	0.42
1:AR:79:PHE:CE2	1:AR:160:TYR:CD2	3.08	0.42
2:CC:74:SER:O	2:CC:75:HIS:C	2.58	0.42
3:D9:75:GLN:NE2	3:D9:184:GLN:OE1	2.49	0.42
1:BF:184:TYR:HE2	2:CU:139:ALA:HB3	263.90	0.42
2:CU:135:THR:HB	2:CU:139:ALA:CB	2.50	0.42
2:CQ:74:SER:O	2:CQ:75:HIS:C	2.58	0.42
1:AT:219:TYR:HA	3:DU:39:ARG:HA	2.02	0.42
2:CB:69:TRP:HZ2	2:CB:198:ILE:HG23	1.85	0.42
1:AT:106:TRP:CZ2	1:AT:158:VAL:HG13	2.54	0.42
1:AH:43:LEU:HD23	1:AH:43:LEU:H	1.81	0.42
1:AN:43:LEU:HD23	1:AN:43:LEU:H	1.81	0.42
1:AR:43:LEU:CD2	1:AR:43:LEU:N	2.74	0.42
3:DO:217:ARG:HD3	3:DO:218:HIS:CD2	2.54	0.42
1:AA:109:VAL:HG22	1:AA:191:HIS:HD2	1.82	0.42
2:CT:65:LYS:CB	3:DH:135:ARG:HH21	233.05	0.42
3:DF:115:ALA:CB	3:DF:194:THR:OG1	2.67	0.42
3:DH:115:ALA:CB	3:DH:194:THR:OG1	2.67	0.42
2:CV:166:ARG:HD3	3:DV:110:PHE:O	2.20	0.42
2:CA:166:ARG:HD3	3:DA:110:PHE:O	2.20	0.42
3:DQ:115:ALA:CB	3:DQ:194:THR:OG1	2.67	0.42
2:CS:166:ARG:HD3	3:DS:110:PHE:O	2.20	0.42
2:C7:166:ARG:HD3	3:D7:110:PHE:O	2.20	0.42
1:AU:74:THR:O	1:AU:74:THR:HG22	2.19	0.42
1:AP:224:ILE:HA	1:AP:225:PRO:HD2	1.86	0.42
3:D5:175:THR:OG1	3:D5:178:ASN:ND2	2.51	0.42
1:AB:107:PHE:CE1	1:AB:196:LEU:HB2	2.55	0.42
1:AU:107:PHE:CE1	1:AU:196:LEU:HB2	2.55	0.42
1:AI:128:VAL:O	1:AI:128:VAL:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:128:VAL:HG13	1:BA:128:VAL:O	2.19	0.42
3:DN:84:GLU:CD	3:DN:84:GLU:H	2.21	0.42
3:DG:84:GLU:H	3:DG:84:GLU:CD	2.20	0.42
2:C9:77:HIS:HE1	2:C9:144:GLU:HG2	1.84	0.42
2:CT:77:HIS:HE1	2:CT:144:GLU:HG2	1.84	0.42
1:A3:144:PHE:CD2	1:A3:154:CYS:HB3	2.54	0.42
4:F4:32:ASN:HB3	4:F4:33:SER:H	1.58	0.42
4:FG:32:ASN:HB3	4:FG:33:SER:H	1.58	0.42
2:C7:77:HIS:HE1	2:C7:144:GLU:HG2	1.84	0.42
2:C7:95:HIS:CD2	2:C7:95:HIS:C	2.93	0.42
2:CF:22:THR:O	2:CF:22:THR:HG23	2.18	0.42
4:F0:21:ILE:O	4:F0:21:ILE:HG22	2.20	0.42
2:CY:22:THR:HG23	2:CY:22:THR:O	2.18	0.42
4:FC:21:ILE:O	4:FC:21:ILE:HG22	2.20	0.42
4:F4:21:ILE:O	4:F4:21:ILE:HG22	2.20	0.42
4:F4:31:GLN:HE21	4:F4:31:GLN:HA	1.85	0.42
4:FI:21:ILE:HG22	4:FI:21:ILE:O	2.20	0.42
1:AJ:234:LYS:HD3	1:AJ:234:LYS:HA	1.89	0.42
1:A1:144:PHE:CD2	1:A1:154:CYS:HB3	2.54	0.42
2:CT:212:THR:HG23	3:DH:188:LEU:HD22	225.14	0.42
3:DK:120:PHE:HD2	3:DK:146:TRP:CZ2	2.38	0.42
2:C3:207:GLN:HB3	3:DU:196:ILE:HG21	2.01	0.42
2:CS:117:SER:HB3	3:EA:192:THR:CG2	160.98	0.42
2:CP:216:ALA:HA	2:CP:217:PRO:HD3	1.78	0.42
3:D9:103:SER:HB3	3:D9:159:PRO:C	2.40	0.42
3:DE:103:SER:HB3	3:DE:159:PRO:C	2.40	0.42
3:DJ:103:SER:HB3	3:DJ:159:PRO:C	2.40	0.42
3:DS:103:SER:HB3	3:DS:159:PRO:C	2.40	0.42
3:D5:103:SER:HB3	3:D5:159:PRO:C	2.40	0.42
3:D6:103:SER:HB3	3:D6:159:PRO:C	2.40	0.42
1:AJ:87:GLN:HA	1:AJ:153:ALA:HB2	2.02	0.42
1:AM:132:GLN:OE1	1:AN:66:LEU:HD21	2.20	0.42
1:AP:121:LEU:HD21	1:AQ:206:GLY:CA	2.47	0.42
1:AU:41:GLU:O	1:AU:42:THR:HB	2.19	0.42
1:AW:87:GLN:HA	1:AW:153:ALA:HB2	2.02	0.42
1:BB:87:GLN:HA	1:BB:153:ALA:HB2	2.02	0.42
1:BF:40:VAL:HB	1:BF:68:TRP:CH2	2.53	0.42
1:BG:41:GLU:O	1:BG:42:THR:HB	2.19	0.42
3:DA:13:SER:O	3:DB:9:PRO:HD3	2.20	0.42
3:DR:13:SER:O	3:DS:9:PRO:HD3	2.20	0.42
4:FO:29:GLN:HB2	4:FO:30:TYR:HD1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FQ:29:GLN:HB2	4:FQ:30:TYR:HD1	1.84	0.42
1:BH:88:PHE:CA	1:BH:207:CYS:HA	2.48	0.42
3:ED:13:SER:O	3:EE:9:PRO:HD3	2.20	0.42
3:DM:98:ALA:HB2	3:DM:220:VAL:HG21	2.02	0.42
1:AO:112:PRO:CG	3:DT:223:PRO:HD3	90.14	0.42
3:DC:98:ALA:HB2	3:DC:220:VAL:HG21	2.01	0.42
3:DR:98:ALA:HB2	3:DR:220:VAL:HG21	2.01	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:AY:87:GLN:HA	1:AY:153:ALA:HB2	2.02	0.42
1:AZ:87:GLN:HA	1:AZ:153:ALA:HB2	2.02	0.42
3:D0:9:PRO:HD3	3:DZ:13:SER:O	2.20	0.42
1:AA:175:GLY:N	1:AA:183:THR:O	2.53	0.42
1:AF:175:GLY:N	1:AF:183:THR:O	2.52	0.42
1:AQ:188:PRO:HG3	3:DR:176:VAL:CG1	2.50	0.42
3:DU:98:ALA:HB2	3:DU:220:VAL:HG21	2.01	0.42
1:BF:188:PRO:HG3	3:EC:176:VAL:CG1	2.50	0.42
1:A1:188:PRO:HG3	3:D3:176:VAL:CG1	2.50	0.42
3:EC:98:ALA:HB2	3:EC:220:VAL:HG21	2.01	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:BG:175:GLY:N	1:BG:183:THR:O	2.53	0.42
1:BE:175:GLY:N	1:BE:183:THR:O	2.52	0.42
1:AO:184:TYR:HE2	2:CS:139:ALA:HB3	111.16	0.42
1:A9:184:TYR:CE2	2:CA:139:ALA:CB	263.92	0.42
2:CE:135:THR:HB	2:CE:139:ALA:CB	2.50	0.42
2:CK:135:THR:HB	2:CK:139:ALA:CB	2.50	0.42
2:CO:135:THR:HB	2:CO:139:ALA:CB	2.50	0.42
2:CF:135:THR:O	2:CF:137:GLU:N	2.53	0.42
2:CJ:135:THR:O	2:CJ:137:GLU:N	2.53	0.42
2:CL:135:THR:HB	2:CL:139:ALA:CB	2.50	0.42
2:CN:135:THR:HB	2:CN:139:ALA:CB	2.50	0.42
1:A7:172:ASN:OD1	1:A7:184:TYR:OH	2.27	0.42
1:AL:48:LEU:HA	1:AL:198:THR:OG1	2.20	0.42
1:AT:48:LEU:HA	1:AT:198:THR:OG1	2.20	0.42
1:BF:48:LEU:HA	1:BF:198:THR:OG1	2.20	0.42
1:A3:49:THR:CG2	1:A3:50:GLY:N	2.83	0.42
1:AC:115:THR:HG23	1:AC:133:LEU:N	2.25	0.42
1:AZ:49:THR:CG2	1:AZ:50:GLY:N	2.83	0.42
1:A1:49:THR:CG2	1:A1:50:GLY:N	2.83	0.42
2:CI:58:LEU:HB3	2:CI:59:SER:H	1.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:55:GLY:HA2	2:CR:56:PRO:HD3	1.80	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:AM:49:THR:CG2	1:AM:50:GLY:N	2.83	0.42
1:AM:103:TRP:CZ2	1:AN:208:TYR:CE2	3.06	0.42
2:CE:55:GLY:HA2	2:CE:56:PRO:HD3	1.80	0.42
1:BB:48:LEU:HA	1:BB:198:THR:OG1	2.20	0.42
2:CJ:33:THR:HG21	2:CJ:160:HIS:O	2.20	0.42
2:CL:33:THR:HG21	2:CL:160:HIS:O	2.20	0.42
1:BA:184:TYR:HE2	2:CP:139:ALA:HB3	108.42	0.42
1:AU:49:THR:CG2	1:AU:50:GLY:N	2.83	0.42
2:CY:33:THR:HG21	2:CY:160:HIS:O	2.20	0.42
1:AX:65:GLN:HG2	1:AX:70:ARG:HD2	2.01	0.42
1:A3:170:PHE:HD2	1:A3:222:ARG:NH1	2.17	0.42
1:AP:30:VAL:HG13	1:AP:218:MET:CE	2.49	0.42
1:BI:72:LEU:O	1:BI:75:CYS:SG	2.76	0.42
1:A6:65:GLN:HG2	1:A6:70:ARG:HD2	2.01	0.42
2:CT:88:LEU:C	2:CT:90:LYS:H	2.23	0.42
2:C6:88:LEU:C	2:C6:90:LYS:H	2.23	0.42
2:C7:88:LEU:C	2:C7:90:LYS:H	2.23	0.42
1:AD:79:PHE:CE2	1:AD:160:TYR:CD2	3.08	0.42
1:AN:79:PHE:CE2	1:AN:160:TYR:CD2	3.08	0.42
1:AN:219:TYR:HA	3:DB:39:ARG:HA	182.98	0.42
1:AC:219:TYR:HA	3:DE:39:ARG:HA	75.70	0.42
1:AP:79:PHE:CE2	1:AP:160:TYR:CD2	3.08	0.42
1:BI:219:TYR:HA	3:EE:39:ARG:HA	2.02	0.42
1:BA:219:TYR:HA	3:DP:39:ARG:HA	102.93	0.42
1:A4:79:PHE:CE2	1:A4:160:TYR:CD2	3.08	0.42
2:CG:69:TRP:HZ2	2:CG:198:ILE:HG23	1.85	0.42
1:A5:79:PHE:CE2	1:A5:160:TYR:CD2	3.08	0.42
2:CA:69:TRP:HZ2	2:CA:198:ILE:HG23	1.85	0.42
2:CA:74:SER:O	2:CA:75:HIS:C	2.58	0.42
2:CP:74:SER:O	2:CP:75:HIS:C	2.58	0.42
1:A3:219:TYR:HA	3:D4:39:ARG:HA	2.02	0.42
2:C2:135:THR:O	2:C2:137:GLU:N	2.53	0.42
1:A6:219:TYR:HD2	3:D7:39:ARG:HB2	1.79	0.42
1:BC:62:SER:O	1:BC:63:THR:CB	2.66	0.42
2:C2:74:SER:O	2:C2:75:HIS:C	2.58	0.42
1:BE:219:TYR:HA	3:EA:39:ARG:HA	2.02	0.42
2:CT:74:SER:O	2:CT:75:HIS:C	2.58	0.42
1:BF:184:TYR:CE2	2:CU:139:ALA:CB	263.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:74:SER:O	2:CW:75:HIS:C	2.58	0.42
2:CR:135:THR:O	2:CR:137:GLU:N	2.53	0.42
1:AQ:219:TYR:HA	3:DQ:39:ARG:HA	2.02	0.42
2:C0:135:THR:HB	2:C0:139:ALA:CB	2.50	0.42
2:CL:69:TRP:HZ2	2:CL:198:ILE:HG23	1.84	0.42
2:CL:74:SER:O	2:CL:75:HIS:C	2.58	0.42
2:CV:103:LEU:O	2:CV:223:ASN:ND2	2.49	0.42
2:CW:103:LEU:HD21	3:EE:163:PRO:HD3	205.02	0.42
2:CK:65:LYS:CB	3:DB:135:ARG:HH21	264.81	0.42
2:CO:65:LYS:CB	3:DP:135:ARG:HH21	2.29	0.42
1:BE:191:HIS:HB2	1:BE:192:PHE:H	1.71	0.42
2:C1:166:ARG:HD3	3:D1:110:PHE:O	2.20	0.42
2:CC:166:ARG:HD3	3:DC:110:PHE:O	2.20	0.42
2:CB:166:ARG:HD3	3:DB:110:PHE:O	2.20	0.42
1:BH:74:THR:O	1:BH:74:THR:HG22	2.19	0.42
1:AM:224:ILE:HD11	3:DM:89:TYR:CE1	2.55	0.42
1:AB:225:PRO:HA	1:AB:226:PRO:HD2	1.88	0.42
1:AV:176:ALA:C	1:AV:178:THR:H	2.22	0.42
2:C1:216:ALA:HA	2:C1:217:PRO:HD3	1.78	0.42
1:A8:66:LEU:HD21	1:AB:132:GLN:OE1	216.36	0.42
1:AC:66:LEU:HD21	1:AG:132:GLN:OE1	204.24	0.42
1:AU:132:GLN:OE1	1:AV:66:LEU:HD21	2.20	0.42
1:BB:132:GLN:OE1	1:BC:66:LEU:HD21	2.20	0.42
1:AZ:107:PHE:CE1	1:AZ:196:LEU:HB2	2.55	0.42
1:A9:107:PHE:CE1	1:A9:196:LEU:HB2	2.55	0.42
1:AQ:107:PHE:CE1	1:AQ:196:LEU:HB2	2.55	0.42
1:AY:132:GLN:OE1	1:AZ:66:LEU:HD21	2.20	0.42
1:AZ:128:VAL:HG13	1:AZ:128:VAL:O	2.19	0.42
3:D6:79:SER:O	3:D6:81:SER:N	2.51	0.42
3:DV:79:SER:O	3:DV:81:SER:N	2.51	0.42
1:AQ:128:VAL:O	1:AQ:128:VAL:HG13	2.19	0.42
4:F4:18:SER:O	4:F4:23:GLN:NE2	2.52	0.42
1:A4:93:THR:O	1:A4:95:SER:N	2.53	0.42
2:CQ:42:ARG:HA	2:CQ:43:PRO:HD2	1.64	0.42
2:CZ:77:HIS:HE1	2:CZ:144:GLU:HG2	1.84	0.42
3:D7:36:VAL:HA	3:D7:37:PRO:HD3	1.53	0.42
1:A6:144:PHE:CD2	1:A6:154:CYS:HB3	2.54	0.42
1:A7:225:PRO:HA	1:A7:226:PRO:HD2	1.88	0.42
1:AR:93:THR:O	1:AR:95:SER:N	2.53	0.42
2:CS:95:HIS:C	2:CS:95:HIS:CD2	2.93	0.42
4:FL:21:ILE:HG22	4:FL:21:ILE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:243:ILE:H	1:AE:243:ILE:HG13	1.70	0.42
4:FE:21:ILE:HG22	4:FE:21:ILE:O	2.20	0.42
4:FN:21:ILE:O	4:FN:21:ILE:HG22	2.20	0.42
1:AM:93:THR:O	1:AM:95:SER:N	2.53	0.42
2:C1:117:SER:HB3	3:DO:192:THR:CG2	2.48	0.42
3:D9:101:ARG:HH12	3:D9:165:ASP:HB3	1.84	0.42
3:DF:101:ARG:HH12	3:DF:165:ASP:HB3	1.84	0.42
3:DH:103:SER:HB3	3:DH:159:PRO:C	2.40	0.42
2:CG:46:THR:CG2	3:DH:165:ASP:HA	2.38	0.42
3:DK:103:SER:HB3	3:DK:159:PRO:C	2.40	0.42
3:DN:103:SER:HB3	3:DN:159:PRO:C	2.40	0.42
3:D3:103:SER:HB3	3:D3:159:PRO:C	2.40	0.42
3:DX:103:SER:HB3	3:DX:159:PRO:C	2.40	0.42
3:DR:103:SER:HB3	3:DR:159:PRO:C	2.40	0.42
3:D2:103:SER:HB3	3:D2:159:PRO:C	2.40	0.42
1:AA:87:GLN:HA	1:AA:153:ALA:HB2	2.02	0.42
1:AD:87:GLN:HA	1:AD:153:ALA:HB2	2.02	0.42
1:AH:146:ILE:HG21	1:AH:146:ILE:HD13	1.74	0.42
1:AH:87:GLN:HA	1:AH:153:ALA:HB2	2.02	0.42
1:AJ:146:ILE:HD13	1:AJ:146:ILE:HG21	1.74	0.42
1:AN:146:ILE:HG21	1:AN:146:ILE:HD13	1.74	0.42
1:AN:88:PHE:CA	1:AN:207:CYS:HA	2.48	0.42
1:AP:106:TRP:CZ2	1:AP:158:VAL:HG13	2.54	0.42
1:AV:101:PHE:CD2	1:AV:143:VAL:CG1	2.91	0.42
1:AX:106:TRP:CZ2	1:AX:158:VAL:HG13	2.54	0.42
1:BE:41:GLU:O	1:BE:42:THR:HB	2.19	0.42
3:DB:13:SER:O	3:DC:9:PRO:HD3	2.20	0.42
3:DI:13:SER:O	3:DJ:9:PRO:HD3	2.20	0.42
3:DU:13:SER:O	3:DV:9:PRO:HD3	2.20	0.42
4:FE:29:GLN:HB2	4:FE:30:TYR:HD1	1.84	0.42
1:A7:106:TRP:CZ2	1:A7:158:VAL:HG13	2.54	0.42
1:A5:87:GLN:O	1:A5:88:PHE:CB	2.62	0.42
1:A2:143:VAL:H	3:DZ:14:PHE:CB	2.28	0.42
4:F0:29:GLN:HB2	4:F0:30:TYR:HD1	1.84	0.42
1:AU:188:PRO:HG3	3:DW:176:VAL:CG1	2.50	0.42
1:AC:188:PRO:HG3	3:DF:176:VAL:CG1	132.39	0.42
1:A8:188:PRO:HG3	3:DA:176:VAL:CG1	221.17	0.42
1:AD:164:TRP:HE1	1:AD:187:LEU:CD1	2.28	0.42
1:AO:188:PRO:HG3	3:DK:176:VAL:CG1	2.50	0.42
1:A5:106:TRP:CZ2	1:A5:158:VAL:HG13	2.54	0.42
1:BI:188:PRO:HG3	3:EA:176:VAL:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:184:TYR:HE2	2:CK:139:ALA:HB3	1.84	0.42
1:A6:184:TYR:CE2	2:C7:139:ALA:CB	3.03	0.42
1:AD:184:TYR:HE2	2:CD:139:ALA:HB3	1.84	0.42
1:AB:48:LEU:HA	1:AB:198:THR:OG1	2.20	0.42
1:AH:208:TYR:CE2	1:AL:103:TRP:CZ2	287.33	0.42
1:BD:48:LEU:HA	1:BD:198:THR:OG1	2.20	0.42
1:AP:103:TRP:CZ2	1:AQ:208:TYR:CE2	3.06	0.42
1:AT:49:THR:CG2	1:AT:50:GLY:N	2.83	0.42
2:CF:57:THR:O	2:CF:59:SER:N	2.52	0.42
2:CX:135:THR:HB	2:CX:139:ALA:CB	2.50	0.42
1:AO:48:LEU:HA	1:AO:198:THR:OG1	2.20	0.42
2:C7:57:THR:O	2:C7:59:SER:N	2.52	0.42
1:BI:48:LEU:HA	1:BI:198:THR:OG1	2.20	0.42
2:CM:33:THR:HG21	2:CM:160:HIS:O	2.20	0.42
1:BB:49:THR:CG2	1:BB:50:GLY:N	2.83	0.42
2:CT:33:THR:HG21	2:CT:160:HIS:O	2.20	0.42
2:CV:33:THR:HG21	2:CV:160:HIS:O	2.20	0.42
1:A4:49:THR:CG2	1:A4:50:GLY:N	2.83	0.42
1:AK:49:THR:CG2	1:AK:50:GLY:N	2.83	0.42
2:CH:153:GLN:HE22	3:DH:55:SER:CB	2.33	0.42
2:CX:153:GLN:HE22	3:DX:55:SER:CB	2.33	0.42
1:AI:170:PHE:HD2	1:AI:222:ARG:NH1	2.17	0.42
1:AI:220:CYS:HA	1:AI:221:PRO:HD2	1.82	0.42
3:ED:53:PHE:CD1	3:ED:53:PHE:N	2.88	0.42
2:CZ:153:GLN:HE22	3:DZ:55:SER:CB	2.33	0.42
2:CW:13:ARG:HD3	2:CW:13:ARG:HA	1.72	0.42
2:C4:153:GLN:HE22	3:D4:55:SER:CB	2.33	0.42
1:AF:30:VAL:HG13	1:AF:218:MET:CE	2.49	0.42
1:A7:65:GLN:HG2	1:A7:70:ARG:HD2	2.01	0.42
1:AS:65:GLN:HG2	1:AS:70:ARG:HD2	2.01	0.42
1:A6:170:PHE:HD2	1:A6:222:ARG:NH1	2.17	0.42
2:C8:83:LEU:HA	2:C8:84:PRO:HA	1.60	0.42
1:A0:65:GLN:HG2	1:A0:70:ARG:HD2	2.01	0.42
2:CG:88:LEU:C	2:CG:90:LYS:H	2.24	0.42
2:CI:88:LEU:C	2:CI:90:LYS:H	2.23	0.42
1:AV:184:TYR:CE2	2:CW:139:ALA:CB	3.03	0.42
2:CS:88:LEU:C	2:CS:90:LYS:H	2.23	0.42
1:AF:79:PHE:CE2	1:AF:160:TYR:CD2	3.08	0.42
1:AL:79:PHE:CE2	1:AL:160:TYR:CD2	3.08	0.42
1:AY:79:PHE:CE2	1:AY:160:TYR:CD2	3.08	0.42
2:CQ:88:LEU:C	2:CQ:90:LYS:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:219:TYR:HA	3:DD:39:ARG:HA	75.70	0.42
1:AH:219:TYR:HA	3:DH:39:ARG:HA	2.02	0.42
1:A0:219:TYR:HA	3:D1:39:ARG:HA	2.02	0.42
1:BB:184:TYR:HE2	2:CQ:139:ALA:HB3	132.68	0.42
2:CQ:135:THR:O	2:CQ:137:GLU:N	2.53	0.42
2:CV:88:LEU:C	2:CV:90:LYS:H	2.23	0.42
3:DG:75:GLN:NE2	3:DG:184:GLN:OE1	2.49	0.42
1:AW:79:PHE:CD1	1:AW:79:PHE:C	2.92	0.42
2:CU:74:SER:O	2:CU:75:HIS:C	2.58	0.42
1:A0:79:PHE:CE2	1:A0:160:TYR:CD2	3.08	0.42
1:AV:79:PHE:CE2	1:AV:160:TYR:CD2	3.08	0.42
1:AU:219:TYR:HA	3:DV:39:ARG:HA	2.02	0.42
2:CZ:74:SER:O	2:CZ:75:HIS:C	2.58	0.42
1:A2:219:TYR:HD2	3:D3:39:ARG:HB2	1.79	0.42
1:BH:219:TYR:HA	3:ED:39:ARG:HA	2.02	0.42
1:A4:184:TYR:HE2	2:C5:139:ALA:HB3	1.84	0.42
2:C3:135:THR:O	2:C3:137:GLU:N	2.53	0.42
2:C3:135:THR:HB	2:C3:139:ALA:CB	2.50	0.42
2:C0:74:SER:O	2:C0:75:HIS:C	2.58	0.42
2:C9:69:TRP:HZ2	2:C9:198:ILE:HG23	1.85	0.42
2:CJ:74:SER:O	2:CJ:75:HIS:C	2.58	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
2:CI:69:TRP:HZ2	2:CI:198:ILE:HG23	1.84	0.42
1:BC:239:PHE:CD2	3:DR:226:GLN:NE2	154.35	0.42
1:A4:239:PHE:CD2	3:D5:226:GLN:NE2	2.87	0.42
1:AG:43:LEU:HD23	1:AG:43:LEU:H	1.81	0.42
2:C9:103:LEU:HD21	3:DA:163:PRO:HD3	210.39	0.42
2:CO:103:LEU:HD21	3:DK:163:PRO:HD3	2.01	0.42
3:DZ:217:ARG:HD3	3:DZ:218:HIS:CD2	2.54	0.42
2:C2:103:LEU:HD21	3:D3:163:PRO:HD3	2.01	0.42
2:CQ:65:LYS:CB	3:DP:135:ARG:HH21	121.76	0.42
3:DA:115:ALA:CB	3:DA:194:THR:OG1	2.67	0.42
2:CO:166:ARG:HD3	3:DO:110:PHE:O	2.20	0.42
2:CF:166:ARG:HD3	3:DF:110:PHE:O	2.20	0.42
2:CT:166:ARG:HD3	3:DT:110:PHE:O	2.20	0.42
2:CZ:166:ARG:HD3	3:DZ:110:PHE:O	2.20	0.42
2:CE:166:ARG:HD3	3:DE:110:PHE:O	2.20	0.42
2:CL:23:ILE:N	2:CL:23:ILE:CD1	2.81	0.42
2:CA:23:ILE:N	2:CA:23:ILE:CD1	2.81	0.42
1:A1:74:THR:HG22	1:A1:74:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:224:ILE:HD11	3:DE:89:TYR:CE1	2.55	0.42
1:AQ:224:ILE:HD11	3:DQ:89:TYR:CE1	2.55	0.42
1:BC:224:ILE:HD11	3:DR:89:TYR:CE1	142.10	0.42
2:CT:129:VAL:HA	2:CT:130:PRO:HD3	1.77	0.42
3:DD:175:THR:HG1	3:DD:178:ASN:ND2	2.24	0.42
1:AE:107:PHE:CE1	1:AE:196:LEU:HB2	2.55	0.42
1:BB:107:PHE:CE1	1:BB:196:LEU:HB2	2.55	0.42
1:BH:107:PHE:CE1	1:BH:196:LEU:HB2	2.55	0.42
1:BI:128:VAL:O	1:BI:128:VAL:HG13	2.19	0.42
1:AE:128:VAL:HG13	1:AE:128:VAL:O	2.19	0.42
1:BE:128:VAL:HG13	1:BE:128:VAL:O	2.19	0.42
3:EA:79:SER:O	3:EA:81:SER:N	2.51	0.42
1:BH:128:VAL:O	1:BH:128:VAL:HG13	2.19	0.42
3:D4:79:SER:O	3:D4:81:SER:N	2.51	0.42
4:FQ:31:GLN:HE21	4:FQ:31:GLN:HA	1.85	0.42
1:AY:93:THR:O	1:AY:95:SER:N	2.53	0.42
3:DG:36:VAL:HA	3:DG:37:PRO:HD3	1.53	0.42
1:A0:92:THR:HB	1:A0:93:THR:H	1.62	0.42
1:AZ:235:THR:HB	1:AZ:236:ARG:H	1.65	0.42
4:FA:31:GLN:HE21	4:FA:31:GLN:HA	1.85	0.42
4:FS:31:GLN:HA	4:FS:31:GLN:HE21	1.85	0.42
2:C9:95:HIS:CD2	2:C9:95:HIS:C	2.92	0.42
4:FL:31:GLN:HA	4:FL:31:GLN:HE21	1.85	0.42
2:CC:95:HIS:C	2:CC:95:HIS:CD2	2.92	0.42
4:FV:31:GLN:HE21	4:FV:31:GLN:HA	1.85	0.42
2:CV:95:HIS:CD2	2:CV:95:HIS:C	2.93	0.42
4:FF:21:ILE:HG22	4:FF:21:ILE:O	2.20	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
2:CC:77:HIS:HE1	2:CC:144:GLU:HG2	1.84	0.42
3:DN:120:PHE:HD2	3:DN:146:TRP:CZ2	2.38	0.42
3:DS:64:VAL:HG13	3:DS:120:PHE:HE1	1.86	0.42
2:CV:115:ASN:HD22	3:DB:190:ALA:C	2.17	0.42
3:DG:120:PHE:HD2	3:DG:146:TRP:CZ2	2.38	0.42
3:D4:120:PHE:HD2	3:D4:146:TRP:CZ2	2.38	0.42
2:CZ:117:SER:HB3	3:DQ:192:THR:CG2	95.68	0.42
3:DF:120:PHE:HD2	3:DF:146:TRP:CZ2	2.38	0.42
3:DT:120:PHE:HD2	3:DT:146:TRP:CZ2	2.38	0.42
3:DD:103:SER:HB3	3:DD:159:PRO:C	2.40	0.42
3:DG:103:SER:HB3	3:DG:159:PRO:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D4:101:ARG:HH12	3:D4:165:ASP:HB3	1.84	0.42
1:A9:40:VAL:HB	1:A9:68:TRP:CH2	2.53	0.42
1:AA:132:GLN:OE1	1:AB:66:LEU:HD21	2.20	0.42
1:AA:66:LEU:HD21	1:AN:132:GLN:OE1	264.29	0.42
1:AC:206:GLY:CA	1:AG:121:LEU:HD21	189.89	0.42
1:AJ:121:LEU:HD21	1:AK:206:GLY:CA	291.09	0.42
1:AK:66:LEU:HD21	1:AO:132:GLN:OE1	2.20	0.42
1:BH:101:PHE:O	1:BH:199:SER:OG	2.33	0.42
1:BE:66:LEU:HD21	1:BI:132:GLN:OE1	2.20	0.42
1:BI:146:ILE:HD13	1:BI:146:ILE:HG21	1.74	0.42
3:DH:13:SER:O	3:DI:9:PRO:HD3	2.20	0.42
3:EC:13:SER:O	3:ED:9:PRO:HD3	2.20	0.42
4:F9:29:GLN:HB2	4:F9:30:TYR:HD1	1.84	0.42
4:F4:29:GLN:HB2	4:F4:30:TYR:HD1	1.84	0.42
1:AM:112:PRO:CG	3:DP:223:PRO:HD3	132.60	0.42
3:DE:98:ALA:HB2	3:DE:220:VAL:HG21	2.01	0.42
1:A5:87:GLN:HA	1:A5:153:ALA:HB2	2.02	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:A6:112:PRO:CG	3:D8:223:PRO:HD3	2.50	0.42
1:AZ:188:PRO:HG3	3:D1:176:VAL:CG1	2.50	0.42
1:A9:188:PRO:HG3	3:DB:176:VAL:CG1	252.81	0.42
1:AJ:188:PRO:HG3	3:DF:176:VAL:CG1	2.50	0.42
1:AK:188:PRO:HG3	3:DN:176:VAL:CG1	89.64	0.42
1:AE:188:PRO:HG3	3:DH:176:VAL:CG1	138.20	0.42
1:AQ:175:GLY:N	1:AQ:183:THR:O	2.53	0.42
4:F7:29:GLN:HB2	4:F7:30:TYR:HD1	1.84	0.42
1:AP:175:GLY:N	1:AP:183:THR:O	2.52	0.42
1:AX:175:GLY:N	1:AX:183:THR:O	2.53	0.42
1:BG:172:ASN:HB2	2:CV:132:TYR:O	256.82	0.42
1:BG:184:TYR:CE2	2:CV:139:ALA:CB	266.15	0.42
1:AM:174:TRP:HB2	2:CO:188:LEU:CD2	102.19	0.42
2:CA:135:THR:HB	2:CA:139:ALA:CB	2.50	0.42
2:CC:135:THR:HB	2:CC:139:ALA:CB	2.50	0.42
1:AG:184:TYR:CE2	2:CI:139:ALA:CB	104.74	0.42
1:AB:184:TYR:HE2	2:CD:139:ALA:HB3	105.63	0.42
1:AN:172:ASN:HB2	2:CB:132:TYR:O	200.67	0.42
1:AG:48:LEU:O	1:AG:131:GLN:HG2	2.20	0.42
1:BE:48:LEU:HA	1:BE:198:THR:OG1	2.20	0.42
2:CA:20:GLY:CA	2:CA:56:PRO:O	2.67	0.42
1:AJ:48:LEU:O	1:AJ:131:GLN:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:48:LEU:O	1:AN:131:GLN:HG2	2.20	0.42
1:AR:48:LEU:O	1:AR:131:GLN:HG2	2.20	0.42
2:CO:33:THR:HG21	2:CO:160:HIS:O	2.20	0.42
2:CQ:33:THR:HG21	2:CQ:160:HIS:O	2.20	0.42
1:AI:48:LEU:O	1:AI:131:GLN:HG2	2.20	0.42
1:BA:48:LEU:O	1:BA:131:GLN:HG2	2.20	0.42
1:AK:48:LEU:HA	1:AK:198:THR:OG1	2.20	0.42
2:C5:33:THR:HG21	2:C5:160:HIS:O	2.20	0.42
1:AH:49:THR:CG2	1:AH:50:GLY:N	2.83	0.42
3:DM:53:PHE:CD1	3:DM:53:PHE:N	2.88	0.42
2:CV:153:GLN:CD	3:DV:55:SER:HB2	2.39	0.42
2:CV:153:GLN:NE2	3:DV:53:PHE:O	2.50	0.42
3:EC:53:PHE:CD1	3:EC:53:PHE:N	2.88	0.42
3:DU:53:PHE:CD1	3:DU:53:PHE:N	2.88	0.42
1:BF:65:GLN:HG2	1:BF:70:ARG:HD2	2.01	0.42
2:CA:153:GLN:HE22	3:DA:55:SER:CB	2.33	0.42
3:DW:53:PHE:N	3:DW:53:PHE:CD1	2.88	0.42
2:CW:153:GLN:HE22	3:ED:55:SER:CB	254.63	0.42
3:DK:53:PHE:N	3:DK:53:PHE:CD1	2.88	0.42
1:AF:65:GLN:HG2	1:AF:70:ARG:HD2	2.01	0.42
3:D4:53:PHE:N	3:D4:53:PHE:CD1	2.88	0.42
1:AT:65:GLN:HG2	1:AT:70:ARG:HD2	2.01	0.42
3:D1:53:PHE:N	3:D1:53:PHE:CD1	2.88	0.42
2:CO:153:GLN:HE22	3:DO:55:SER:CB	2.33	0.42
2:C6:153:GLN:HE22	3:D6:55:SER:CB	2.33	0.42
2:C2:153:GLN:HE22	3:D2:55:SER:CB	2.33	0.42
2:CU:28:GLY:O	2:CU:168:ASN:HB2	2.21	0.42
2:CF:88:LEU:C	2:CF:90:LYS:H	2.24	0.42
2:CA:88:LEU:C	2:CA:90:LYS:H	2.23	0.42
2:CK:88:LEU:C	2:CK:90:LYS:H	2.23	0.42
2:CC:88:LEU:C	2:CC:90:LYS:H	2.23	0.42
2:CR:88:LEU:C	2:CR:90:LYS:H	2.23	0.42
2:CL:88:LEU:C	2:CL:90:LYS:H	2.23	0.42
2:CW:135:THR:HB	2:CW:139:ALA:CB	2.50	0.42
2:CJ:88:LEU:C	2:CJ:90:LYS:H	2.23	0.42
1:AM:79:PHE:CE2	1:AM:160:TYR:CD2	3.08	0.42
1:AO:79:PHE:CE2	1:AO:160:TYR:CD2	3.08	0.42
1:AL:219:TYR:HA	3:DN:39:ARG:HA	75.69	0.42
1:AC:219:TYR:CE2	3:DC:39:ARG:HD2	2.55	0.42
1:AK:219:TYR:HA	3:DM:39:ARG:HA	75.69	0.42
2:CO:180:PRO:HD2	2:CO:189:HIS:HE1	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:219:TYR:HA	3:DO:39:ARG:HA	2.02	0.42
1:AP:219:TYR:CE2	3:DP:39:ARG:HD2	2.55	0.42
1:BC:219:TYR:HA	3:DR:39:ARG:HA	136.42	0.42
1:AR:219:TYR:CE2	3:DR:39:ARG:HD2	2.55	0.42
2:CK:74:SER:O	2:CK:75:HIS:C	2.58	0.42
2:C5:88:LEU:C	2:C5:90:LYS:H	2.24	0.42
1:AU:219:TYR:CE2	3:DV:39:ARG:HD2	2.55	0.42
1:BE:219:TYR:CE2	3:EA:39:ARG:HD2	2.55	0.42
1:A1:79:PHE:CE2	1:A1:160:TYR:CD2	3.08	0.42
2:C5:135:THR:HB	2:C5:139:ALA:CB	2.50	0.42
1:BC:79:PHE:CE2	1:BC:160:TYR:CD2	3.08	0.42
2:CE:74:SER:O	2:CE:75:HIS:C	2.58	0.42
2:CJ:69:TRP:HZ2	2:CJ:198:ILE:HG23	1.84	0.42
2:CT:69:TRP:HZ2	2:CT:198:ILE:HG23	1.85	0.42
1:AT:184:TYR:CE2	2:CU:139:ALA:CB	3.03	0.42
1:AZ:219:TYR:HA	3:D0:39:ARG:HA	2.02	0.42
2:C6:135:THR:O	2:C6:137:GLU:N	2.53	0.42
2:C6:135:THR:HB	2:C6:139:ALA:CB	2.50	0.42
2:CS:69:TRP:HZ2	2:CS:198:ILE:HG23	1.84	0.42
3:EE:75:GLN:NE2	3:EE:184:GLN:OE1	2.49	0.42
1:AX:184:TYR:HE2	2:CY:139:ALA:HB3	1.84	0.42
1:A2:239:PHE:CD2	3:D3:226:GLN:NE2	2.87	0.42
1:AO:43:LEU:HD23	1:AO:43:LEU:H	1.81	0.42
1:AJ:43:LEU:H	1:AJ:43:LEU:HD23	1.81	0.42
1:BI:43:LEU:CD2	1:BI:43:LEU:N	2.74	0.42
2:CM:103:LEU:O	2:CM:223:ASN:ND2	2.49	0.42
2:CB:103:LEU:O	2:CB:223:ASN:ND2	2.49	0.42
2:CH:103:LEU:HD21	3:DI:163:PRO:HD3	2.01	0.42
2:CK:103:LEU:HD12	2:CK:223:ASN:HB2	2.02	0.42
2:CR:103:LEU:HD12	2:CR:223:ASN:HB2	2.02	0.42
1:BG:110:GLY:H	1:BH:242:ASN:ND2	2.12	0.42
1:BF:110:GLY:H	1:BG:242:ASN:ND2	2.12	0.42
3:DI:115:ALA:CB	3:DI:194:THR:OG1	2.67	0.42
3:D7:115:ALA:CB	3:D7:194:THR:OG1	2.67	0.42
2:CT:166:ARG:HD3	3:EA:110:PHE:O	200.32	0.42
1:AR:74:THR:O	1:AR:74:THR:HG22	2.19	0.42
1:AT:74:THR:O	1:AT:74:THR:HG22	2.19	0.42
1:AK:6:GLU:O	2:CK:162:LEU:N	2.53	0.42
1:AO:224:ILE:HD11	3:DO:89:TYR:CE1	2.55	0.42
1:AA:224:ILE:HD11	3:DC:89:TYR:CE1	84.05	0.42
2:C3:103:LEU:HD21	3:DZ:163:PRO:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:6:GLU:O	2:CT:162:LEU:N	193.44	0.42
1:AD:224:ILE:HD11	3:DD:89:TYR:CE1	2.55	0.42
1:AU:224:ILE:HD11	3:DV:89:TYR:CE1	2.55	0.42
1:BA:224:ILE:HD11	3:DP:89:TYR:CE1	112.43	0.42
1:BH:224:ILE:HD11	3:ED:89:TYR:CE1	2.55	0.42
1:BB:6:GLU:O	2:CQ:162:LEU:N	104.71	0.42
1:A1:224:ILE:HD11	3:D2:89:TYR:CE1	2.55	0.42
2:C5:129:VAL:HA	2:C5:130:PRO:HD3	1.78	0.42
1:AB:132:GLN:OE1	1:AC:66:LEU:HD21	2.20	0.42
1:AG:132:GLN:OE1	1:AH:66:LEU:HD21	2.20	0.42
1:BE:132:GLN:OE1	1:BF:66:LEU:HD21	2.20	0.42
3:DQ:79:SER:O	3:DQ:81:SER:N	2.51	0.42
1:AO:93:THR:O	1:AO:95:SER:N	2.53	0.42
1:AT:144:PHE:CD2	1:AT:154:CYS:HB3	2.54	0.42
4:FI:31:GLN:HE21	4:FI:31:GLN:HA	1.85	0.42
4:FJ:21:ILE:HG22	4:FJ:21:ILE:O	2.20	0.42
4:FB:21:ILE:O	4:FB:21:ILE:HG22	2.20	0.42
4:FV:21:ILE:O	4:FV:21:ILE:HG22	2.20	0.42
4:FX:21:ILE:O	4:FX:21:ILE:HG22	2.20	0.42
4:FP:31:GLN:HA	4:FP:31:GLN:HE21	1.85	0.42
2:CG:95:HIS:CD2	2:CG:95:HIS:C	2.93	0.42
4:F8:32:ASN:HB3	4:F8:33:SER:H	1.58	0.42
2:CM:117:SER:HB3	3:DD:192:THR:CG2	160.99	0.41
3:D8:120:PHE:HD2	3:D8:146:TRP:CZ2	2.38	0.41
2:CX:207:GLN:HB3	3:DO:196:ILE:HG21	233.31	0.41
3:DP:120:PHE:HD2	3:DP:146:TRP:CZ2	2.38	0.41
2:CG:115:ASN:HD22	3:D3:190:ALA:C	264.38	0.41
3:DL:120:PHE:HD2	3:DL:146:TRP:CZ2	2.38	0.41
2:CB:207:GLN:HB3	3:DT:196:ILE:HG21	276.63	0.41
3:EA:120:PHE:HD2	3:EA:146:TRP:CZ2	2.38	0.41
2:CP:117:SER:HB3	3:D0:192:THR:CG2	97.99	0.41
3:D0:120:PHE:HD2	3:D0:146:TRP:CZ2	2.38	0.41
3:D1:120:PHE:HD2	3:D1:146:TRP:CZ2	2.38	0.41
2:CF:216:ALA:HA	2:CF:217:PRO:HD3	1.78	0.41
3:DF:103:SER:HB3	3:DF:159:PRO:C	2.40	0.41
2:C8:49:ASP:HA	2:C8:50:PRO:HD2	1.81	0.41
2:CV:46:THR:CG2	3:DW:165:ASP:HA	2.38	0.41
3:ED:103:SER:HB3	3:ED:159:PRO:C	2.40	0.41
3:ED:103:SER:HB2	3:ED:159:PRO:HA	1.95	0.41
1:AD:88:PHE:HE1	1:AD:205:GLY:CA	2.33	0.41
1:AF:87:GLN:HA	1:AF:153:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:87:GLN:HA	1:AL:153:ALA:HB2	2.02	0.41
1:AM:41:GLU:O	1:AM:42:THR:HB	2.19	0.41
1:BF:87:GLN:HA	1:BF:153:ALA:HB2	2.02	0.41
3:DH:23:THR:HA	3:DH:24:PRO:HD3	1.89	0.41
3:DL:13:SER:O	3:DM:9:PRO:HD3	2.20	0.41
3:DN:13:SER:O	3:DO:9:PRO:HD3	2.20	0.41
3:DP:13:SER:O	3:DQ:9:PRO:HD3	2.19	0.41
3:DR:23:THR:HA	3:DR:24:PRO:HD3	1.89	0.41
4:FD:29:GLN:HB2	4:FD:30:TYR:HD1	1.84	0.41
3:DX:98:ALA:HB2	3:DX:220:VAL:HG21	2.01	0.41
1:AY:101:PHE:CD2	1:AY:143:VAL:CG1	2.91	0.41
1:A7:112:PRO:CG	3:D4:223:PRO:HD3	2.50	0.41
1:A6:175:GLY:N	1:A6:183:THR:O	2.52	0.41
1:AB:188:PRO:HG3	3:D9:176:VAL:CG1	216.71	0.41
1:AK:175:GLY:N	1:AK:183:THR:O	2.52	0.41
1:AM:188:PRO:HG3	3:DP:176:VAL:CG1	132.39	0.41
1:AI:188:PRO:HG3	3:DL:176:VAL:CG1	268.72	0.41
1:AM:188:PRO:HG3	3:DN:176:VAL:CG1	2.50	0.41
1:AT:112:PRO:CG	3:DV:223:PRO:HD3	2.50	0.41
1:AW:188:PRO:HG3	3:DY:176:VAL:CG1	2.50	0.41
1:BC:188:PRO:HG3	3:DS:176:VAL:CG1	154.73	0.41
3:D3:223:PRO:HB2	3:D3:224:ASP:H	1.71	0.41
1:AT:188:PRO:HG3	3:DV:176:VAL:CG1	2.50	0.41
1:BG:188:PRO:HG3	3:ED:176:VAL:CG1	2.50	0.41
2:CG:135:THR:O	2:CG:137:GLU:N	2.53	0.41
1:AF:184:TYR:HE2	2:CF:139:ALA:HB3	1.84	0.41
1:AL:184:TYR:HE2	2:CN:139:ALA:HB3	105.63	0.41
1:AB:48:LEU:O	1:AB:131:GLN:HG2	2.20	0.41
1:BD:115:THR:HG23	1:BD:133:LEU:N	2.25	0.41
1:BD:49:THR:CG2	1:BD:50:GLY:N	2.83	0.41
1:BF:49:THR:CG2	1:BF:50:GLY:N	2.83	0.41
1:AC:48:LEU:HA	1:AC:198:THR:OG1	2.20	0.41
1:AE:48:LEU:HA	1:AE:198:THR:OG1	2.20	0.41
1:AE:48:LEU:O	1:AE:131:GLN:HG2	2.20	0.41
1:AE:49:THR:CG2	1:AE:50:GLY:N	2.83	0.41
1:AA:48:LEU:O	1:AA:131:GLN:HG2	2.21	0.41
2:CK:20:GLY:CA	2:CK:56:PRO:O	2.67	0.41
1:A0:48:LEU:HA	1:A0:198:THR:OG1	2.20	0.41
2:CG:33:THR:HG21	2:CG:160:HIS:O	2.20	0.41
1:A7:48:LEU:HA	1:A7:198:THR:OG1	2.20	0.41
2:CL:56:PRO:C	2:CL:57:THR:O	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:48:LEU:HA	1:AF:198:THR:OG1	2.20	0.41
1:BA:184:TYR:CE2	2:CP:139:ALA:CB	109.66	0.41
2:CU:33:THR:HG21	2:CU:160:HIS:O	2.20	0.41
2:CT:153:GLN:HE22	3:EA:55:SER:CB	189.43	0.41
3:EE:53:PHE:CD1	3:EE:53:PHE:N	2.88	0.41
3:DE:53:PHE:CD1	3:DE:53:PHE:N	2.88	0.41
3:DO:53:PHE:N	3:DO:53:PHE:CD1	2.88	0.41
3:DC:53:PHE:N	3:DC:53:PHE:CD1	2.88	0.41
2:CD:153:GLN:HE22	3:DD:55:SER:CB	2.33	0.41
2:CF:28:GLY:O	2:CF:168:ASN:HB2	2.21	0.41
1:AV:170:PHE:HD2	1:AV:222:ARG:NH1	2.17	0.41
1:BD:65:GLN:HG2	1:BD:70:ARG:HD2	2.01	0.41
1:BE:174:TRP:HB2	2:CT:188:LEU:CD2	215.24	0.41
1:AQ:79:PHE:CE2	1:AQ:160:TYR:CD2	3.08	0.41
1:BB:79:PHE:CE2	1:BB:160:TYR:CD2	3.08	0.41
1:A9:79:PHE:CE2	1:A9:160:TYR:CD2	3.08	0.41
1:AG:79:PHE:CE2	1:AG:160:TYR:CD2	3.08	0.41
1:AH:79:PHE:CE2	1:AH:160:TYR:CD2	3.08	0.41
1:AJ:219:TYR:HA	3:DJ:39:ARG:HA	2.02	0.41
2:CL:180:PRO:HD2	2:CL:189:HIS:HE1	1.76	0.41
1:AM:219:TYR:HA	3:DO:39:ARG:HA	75.70	0.41
2:CW:88:LEU:C	2:CW:90:LYS:H	2.23	0.41
1:AW:79:PHE:CE2	1:AW:160:TYR:CD2	3.08	0.41
2:C4:88:LEU:C	2:C4:90:LYS:H	2.23	0.41
2:CE:88:LEU:C	2:CE:90:LYS:H	2.23	0.41
1:AY:219:TYR:CE2	3:DZ:39:ARG:HD2	2.55	0.41
2:C8:74:SER:O	2:C8:75:HIS:C	2.58	0.41
2:C2:69:TRP:HZ2	2:C2:198:ILE:HG23	1.85	0.41
2:C7:74:SER:O	2:C7:75:HIS:C	2.58	0.41
1:AZ:219:TYR:CE2	3:D0:39:ARG:HD2	2.55	0.41
2:CM:74:SER:O	2:CM:75:HIS:C	2.58	0.41
1:BF:219:TYR:CE2	3:EB:39:ARG:HD2	2.55	0.41
2:CZ:135:THR:HB	2:CZ:139:ALA:CB	2.50	0.41
1:BG:62:SER:HB2	1:BG:73:ASN:ND2	2.27	0.41
1:AX:239:PHE:CD2	3:DY:226:GLN:NE2	2.87	0.41
2:CN:103:LEU:HD12	2:CN:223:ASN:HB2	2.03	0.41
2:CO:103:LEU:HD12	2:CO:223:ASN:HB2	2.02	0.41
2:CC:103:LEU:HD12	2:CC:223:ASN:HB2	2.03	0.41
2:CQ:20:GLY:CA	2:CQ:56:PRO:O	2.67	0.41
2:CM:103:LEU:HD21	3:DN:163:PRO:HD3	2.01	0.41
2:CV:103:LEU:HD21	3:ED:163:PRO:HD3	241.16	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CW:103:LEU:HD12	2:CW:223:ASN:HB2	2.02	0.41
2:CH:65:LYS:CB	3:DN:135:ARG:HH21	265.97	0.41
1:A5:109:VAL:HG22	1:A5:191:HIS:HD2	1.82	0.41
3:D1:115:ALA:CB	3:D1:194:THR:OG1	2.67	0.41
2:CH:166:ARG:HD3	3:DH:110:PHE:O	2.20	0.41
2:CV:166:ARG:HD3	3:EC:110:PHE:O	250.90	0.41
2:CW:166:ARG:HD3	3:ED:110:PHE:O	245.09	0.41
2:C2:166:ARG:HD3	3:D2:110:PHE:O	2.20	0.41
2:CT:23:ILE:CD1	2:CT:23:ILE:N	2.81	0.41
2:C3:166:ARG:HD3	3:D3:110:PHE:O	2.20	0.41
2:C4:166:ARG:HD3	3:D4:110:PHE:O	2.20	0.41
1:A7:74:THR:O	1:A7:74:THR:HG22	2.19	0.41
1:BD:6:GLU:O	2:CS:162:LEU:N	151.39	0.41
1:AE:6:GLU:O	2:CG:162:LEU:N	105.32	0.41
1:AG:6:GLU:O	2:CG:162:LEU:N	2.53	0.41
1:AM:6:GLU:O	2:CM:162:LEU:N	2.53	0.41
1:AK:224:ILE:HD11	3:DM:89:TYR:CE1	84.05	0.41
1:AI:224:ILE:HD11	3:DK:89:TYR:CE1	252.15	0.41
1:AH:224:ILE:HD11	3:DJ:89:TYR:CE1	84.05	0.41
1:AJ:224:ILE:HD11	3:DL:89:TYR:CE1	251.50	0.41
1:AZ:74:THR:HG22	1:AZ:74:THR:O	2.19	0.41
1:BB:224:ILE:HD11	3:DQ:89:TYR:CE1	111.04	0.41
1:AU:6:GLU:O	2:CV:162:LEU:N	2.53	0.41
1:A5:6:GLU:O	2:C6:162:LEU:N	2.53	0.41
1:BF:176:ALA:C	1:BF:178:THR:H	2.22	0.41
1:A5:132:GLN:OE1	1:A6:66:LEU:HD21	2.20	0.41
1:BF:132:GLN:OE1	1:BG:66:LEU:HD21	2.20	0.41
1:A2:107:PHE:CE1	1:A2:196:LEU:HB2	2.55	0.41
3:DF:79:SER:O	3:DF:81:SER:N	2.51	0.41
1:AB:128:VAL:HG13	1:AB:128:VAL:O	2.19	0.41
1:AG:128:VAL:HG13	1:AG:128:VAL:O	2.19	0.41
1:AF:93:THR:O	1:AF:95:SER:N	2.53	0.41
2:C2:77:HIS:HE1	2:C2:144:GLU:HG2	1.84	0.41
3:D4:36:VAL:HA	3:D4:37:PRO:HD3	1.53	0.41
2:C8:77:HIS:HE1	2:C8:144:GLU:HG2	1.84	0.41
1:A5:93:THR:O	1:A5:95:SER:N	2.53	0.41
3:DZ:36:VAL:HA	3:DZ:37:PRO:HD3	1.53	0.41
4:FT:21:ILE:HG22	4:FT:21:ILE:O	2.20	0.41
2:C8:95:HIS:CD2	2:C8:95:HIS:C	2.93	0.41
4:FM:31:GLN:HE21	4:FM:31:GLN:HA	1.85	0.41
4:FO:31:GLN:HA	4:FO:31:GLN:HE21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F5:31:GLN:HE21	4:F5:31:GLN:HA	1.85	0.41
4:FJ:31:GLN:HE21	4:FJ:31:GLN:HA	1.85	0.41
4:F9:31:GLN:HA	4:F9:31:GLN:HE21	1.85	0.41
2:C4:42:ARG:HA	2:C4:43:PRO:HD2	1.64	0.41
2:C8:115:ASN:HD22	3:D9:190:ALA:C	2.17	0.41
3:D9:64:VAL:HG13	3:D9:120:PHE:HE1	1.85	0.41
2:CC:115:ASN:HD22	3:ED:190:ALA:C	253.65	0.41
3:DX:64:VAL:HG13	3:DX:120:PHE:HE1	1.86	0.41
3:DM:120:PHE:HD2	3:DM:146:TRP:CZ2	2.38	0.41
2:CL:117:SER:HB3	3:D8:192:THR:CG2	109.98	0.41
3:DH:120:PHE:HD2	3:DH:146:TRP:CZ2	2.38	0.41
3:DH:64:VAL:HG13	3:DH:120:PHE:HE1	1.85	0.41
3:D4:64:VAL:HG13	3:D4:120:PHE:HE1	1.85	0.41
2:CN:115:ASN:HD22	3:D2:190:ALA:C	2.17	0.41
3:DC:120:PHE:HD2	3:DC:146:TRP:CZ2	2.38	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
2:C9:49:ASP:HA	2:C9:50:PRO:HD2	1.80	0.41
2:CS:46:THR:CG2	3:DT:165:ASP:HA	2.38	0.41
3:DV:103:SER:HB3	3:DV:159:PRO:C	2.40	0.41
3:EA:103:SER:HB3	3:EA:159:PRO:C	2.40	0.41
3:D7:103:SER:HB3	3:D7:159:PRO:C	2.40	0.41
1:A8:41:GLU:O	1:A8:42:THR:HB	2.19	0.41
1:AC:132:GLN:OE1	1:AD:66:LEU:HD21	2.20	0.41
1:AC:143:VAL:H	3:DD:14:PHE:CB	2.28	0.41
1:AE:87:GLN:HA	1:AE:153:ALA:HB2	2.02	0.41
1:AF:41:GLU:O	1:AF:42:THR:HB	2.19	0.41
1:AJ:41:GLU:O	1:AJ:42:THR:HB	2.19	0.41
1:AK:132:GLN:OE1	1:AL:66:LEU:HD21	2.20	0.41
1:AK:206:GLY:CA	1:AO:121:LEU:HD21	2.47	0.41
1:AP:88:PHE:CA	1:AP:207:CYS:HA	2.48	0.41
1:BD:88:PHE:CA	1:BD:207:CYS:HA	2.48	0.41
3:DU:9:PRO:HD3	3:DY:13:SER:O	2.20	0.41
1:A3:88:PHE:CA	1:A3:207:CYS:HA	2.48	0.41
1:AV:87:GLN:HA	1:AV:153:ALA:HB2	2.02	0.41
3:DK:223:PRO:HB2	3:DK:224:ASP:H	1.71	0.41
1:A4:132:GLN:OE1	1:A5:66:LEU:HD21	2.20	0.41
1:A2:146:ILE:HG21	1:A2:146:ILE:HD13	1.74	0.41
1:A2:41:GLU:O	1:A2:42:THR:HB	2.19	0.41
1:AY:106:TRP:CZ2	1:AY:158:VAL:HG13	2.54	0.41
1:A5:175:GLY:N	1:A5:183:THR:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:175:GLY:N	1:A9:183:THR:O	2.53	0.41
1:AJ:175:GLY:N	1:AJ:183:THR:O	2.52	0.41
1:AE:188:PRO:HG3	3:DA:176:VAL:CG1	2.50	0.41
1:AO:188:PRO:HG3	3:DT:176:VAL:CG1	92.14	0.41
3:D7:13:SER:O	3:D8:9:PRO:HD3	2.20	0.41
1:BA:188:PRO:HG3	3:DQ:176:VAL:CG1	107.70	0.41
1:A7:188:PRO:HG3	3:D4:176:VAL:CG1	2.50	0.41
2:C7:135:THR:HB	2:C7:139:ALA:CB	2.50	0.41
1:AD:174:TRP:HB2	2:CF:188:LEU:CD2	107.36	0.41
1:A3:184:TYR:CE2	2:C4:139:ALA:CB	3.03	0.41
1:A5:172:ASN:HB2	2:C6:132:TYR:O	2.19	0.41
1:AL:49:THR:CG2	1:AL:50:GLY:N	2.83	0.41
1:AD:48:LEU:O	1:AD:131:GLN:HG2	2.20	0.41
1:AN:48:LEU:HA	1:AN:198:THR:OG1	2.20	0.41
1:AA:103:TRP:CZ2	1:AB:208:TYR:CE2	3.06	0.41
1:AX:48:LEU:HA	1:AX:198:THR:OG1	2.20	0.41
1:A9:103:TRP:CZ2	1:AN:208:TYR:CE2	154.29	0.41
2:CH:33:THR:HG21	2:CH:160:HIS:O	2.20	0.41
2:CE:56:PRO:C	2:CE:57:THR:O	2.59	0.41
2:CE:58:LEU:HB3	2:CE:59:SER:H	1.65	0.41
1:A5:48:LEU:O	1:A5:131:GLN:HG2	2.20	0.41
1:AW:48:LEU:O	1:AW:131:GLN:HG2	2.20	0.41
1:BB:48:LEU:O	1:BB:131:GLN:HG2	2.20	0.41
2:C0:56:PRO:C	2:C0:57:THR:O	2.59	0.41
1:BA:48:LEU:HA	1:BA:198:THR:OG1	2.20	0.41
2:C0:33:THR:HG21	2:C0:160:HIS:O	2.20	0.41
2:CP:153:GLN:HE22	3:DP:55:SER:CB	2.33	0.41
3:DN:53:PHE:CD1	3:DN:53:PHE:N	2.88	0.41
3:DF:152:SER:O	3:DF:153:ALA:HB2	2.21	0.41
2:CT:153:GLN:HE22	3:DT:55:SER:CB	2.33	0.41
3:DL:53:PHE:CD1	3:DL:53:PHE:N	2.88	0.41
2:CD:28:GLY:O	2:CD:168:ASN:HB2	2.21	0.41
2:CP:28:GLY:O	2:CP:168:ASN:HB2	2.21	0.41
3:DG:53:PHE:N	3:DG:53:PHE:CD1	2.88	0.41
2:CR:153:GLN:HE22	3:DR:55:SER:CB	2.33	0.41
3:D9:53:PHE:N	3:D9:53:PHE:CD1	2.88	0.41
2:CQ:28:GLY:O	2:CQ:168:ASN:HB2	2.21	0.41
2:C0:88:LEU:C	2:C0:90:LYS:H	2.23	0.41
2:CM:88:LEU:C	2:CM:90:LYS:H	2.23	0.41
2:CU:88:LEU:C	2:CU:90:LYS:H	2.24	0.41
1:AL:219:TYR:CE2	3:DN:39:ARG:HD2	70.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:79:PHE:CE2	1:AS:160:TYR:CD2	3.08	0.41
1:A0:219:TYR:CE2	3:D1:39:ARG:HD2	2.55	0.41
1:AA:219:TYR:HA	3:DA:39:ARG:HA	2.02	0.41
1:AE:219:TYR:CE2	3:DG:39:ARG:HD2	111.48	0.41
1:AI:219:TYR:CE2	3:DI:39:ARG:HD2	2.55	0.41
1:AW:219:TYR:HD2	3:DX:39:ARG:HB2	1.79	0.41
1:BI:219:TYR:HD2	3:EE:39:ARG:HB2	1.79	0.41
1:BA:219:TYR:CE2	3:DP:39:ARG:HD2	101.35	0.41
2:CG:74:SER:O	2:CG:75:HIS:C	2.58	0.41
2:CB:88:LEU:C	2:CB:90:LYS:H	2.23	0.41
2:CF:69:TRP:HZ2	2:CF:198:ILE:HG23	1.84	0.41
1:A4:219:TYR:CE2	3:D5:39:ARG:HD2	2.56	0.41
1:A6:219:TYR:CE2	3:D7:39:ARG:HD2	2.55	0.41
1:A2:219:TYR:CE2	3:D3:39:ARG:HD2	2.56	0.41
1:AV:219:TYR:CE2	3:DW:39:ARG:HD2	2.55	0.41
2:CR:74:SER:O	2:CR:75:HIS:C	2.58	0.41
1:AS:219:TYR:CE2	3:DT:39:ARG:HD2	2.55	0.41
1:A8:79:PHE:CE2	1:A8:160:TYR:CD2	3.08	0.41
2:C9:135:THR:HB	2:C9:139:ALA:CB	2.50	0.41
3:D0:75:GLN:NE2	3:D0:184:GLN:OE1	2.49	0.41
2:CO:74:SER:O	2:CO:75:HIS:C	2.58	0.41
2:CY:74:SER:O	2:CY:75:HIS:C	2.58	0.41
1:A2:79:PHE:CE2	1:A2:160:TYR:CD2	3.08	0.41
1:AT:219:TYR:CE2	3:DU:39:ARG:HD2	2.56	0.41
1:AT:62:SER:HB2	1:AT:73:ASN:ND2	2.27	0.41
1:AJ:239:PHE:CD2	3:DJ:226:GLN:NE2	2.87	0.41
1:AY:239:PHE:CD2	3:DZ:226:GLN:NE2	2.87	0.41
1:AK:43:LEU:N	1:AK:43:LEU:CD2	2.74	0.41
1:BG:239:PHE:CD2	3:EC:226:GLN:NE2	2.87	0.41
2:CF:103:LEU:HD12	2:CF:223:ASN:HB2	2.02	0.41
2:CV:103:LEU:HD12	2:CV:223:ASN:HB2	2.02	0.41
2:CH:103:LEU:HD12	2:CH:223:ASN:HB2	2.02	0.41
2:CR:103:LEU:HD21	3:DS:163:PRO:HD3	2.01	0.41
2:CA:103:LEU:HD12	2:CA:223:ASN:HB2	2.02	0.41
1:AQ:191:HIS:HB2	1:AQ:192:PHE:H	1.71	0.41
2:CS:65:LYS:CB	3:EA:135:ARG:HH21	162.84	0.41
2:C8:166:ARG:HD3	3:D8:110:PHE:O	2.20	0.41
2:CD:166:ARG:HD3	3:DD:110:PHE:O	2.20	0.41
1:A0:74:THR:O	1:A0:74:THR:HG22	2.19	0.41
2:C2:23:ILE:CD1	2:C2:23:ILE:N	2.81	0.41
1:AA:224:ILE:HD11	3:DA:89:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:224:ILE:HA	1:AC:225:PRO:HD2	1.86	0.41
1:AE:224:ILE:HD11	3:DG:89:TYR:CE1	115.02	0.41
1:AF:6:GLU:O	2:CH:162:LEU:N	115.56	0.41
1:AL:224:ILE:HD11	3:DL:89:TYR:CE1	2.55	0.41
1:A8:6:GLU:O	2:C9:162:LEU:N	2.53	0.41
1:AW:6:GLU:O	2:CX:162:LEU:N	2.53	0.41
1:BF:6:GLU:O	2:CU:162:LEU:N	235.74	0.41
1:BG:6:GLU:O	2:CV:162:LEU:N	242.04	0.41
1:A2:225:PRO:HA	1:A2:226:PRO:HD2	1.87	0.41
1:A8:224:ILE:HD11	3:D9:89:TYR:CE1	2.55	0.41
1:BH:6:GLU:O	2:CW:162:LEU:N	231.66	0.41
1:AR:224:ILE:HA	1:AR:225:PRO:HD2	1.86	0.41
2:CD:36:TYR:CE2	2:CD:130:PRO:CG	2.98	0.41
1:A2:6:GLU:O	2:C3:162:LEU:N	2.53	0.41
2:C0:36:TYR:CE2	2:C0:130:PRO:CG	2.98	0.41
3:ED:179:VAL:HG12	3:ED:181:GLY:N	2.33	0.41
1:AI:132:GLN:OE1	1:AJ:66:LEU:HD21	2.20	0.41
1:AH:107:PHE:CE1	1:AH:196:LEU:HB2	2.55	0.41
1:AT:128:VAL:O	1:AT:128:VAL:HG13	2.19	0.41
1:AR:128:VAL:HG13	1:AR:128:VAL:O	2.19	0.41
1:AU:128:VAL:HG13	1:AU:128:VAL:O	2.19	0.41
3:DT:79:SER:O	3:DT:81:SER:N	2.51	0.41
1:AZ:93:THR:O	1:AZ:95:SER:N	2.53	0.41
2:CS:77:HIS:HE1	2:CS:144:GLU:HG2	1.84	0.41
1:AQ:225:PRO:HA	1:AQ:226:PRO:HD2	1.88	0.41
1:BA:93:THR:O	1:BA:95:SER:N	2.53	0.41
4:FY:32:ASN:HB3	4:FY:33:SER:H	1.58	0.41
4:F8:21:ILE:O	4:F8:21:ILE:HG22	2.20	0.41
4:FB:31:GLN:HA	4:FB:31:GLN:HE21	1.85	0.41
1:AV:234:LYS:HD3	1:AV:234:LYS:HA	1.89	0.41
2:C0:95:HIS:CD2	2:C0:95:HIS:C	2.93	0.41
4:F3:21:ILE:HG22	4:F3:21:ILE:O	2.20	0.41
2:C3:95:HIS:C	2:C3:95:HIS:CD2	2.93	0.41
4:FF:31:GLN:HA	4:FF:31:GLN:HE21	1.85	0.41
4:FG:31:GLN:HA	4:FG:31:GLN:HE21	1.85	0.41
1:AR:20:SER:HA	1:AR:21:PRO:HD3	1.92	0.41
1:AB:93:THR:O	1:AB:95:SER:N	2.53	0.41
2:CH:117:SER:HB3	3:DS:192:THR:CG2	160.99	0.41
3:DJ:64:VAL:HG13	3:DJ:120:PHE:HE1	1.86	0.41
3:DB:120:PHE:HD2	3:DB:146:TRP:CZ2	2.38	0.41
3:DI:64:VAL:HG13	3:DI:120:PHE:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:212:THR:HG23	3:DK:188:LEU:HD22	116.58	0.41
3:DK:64:VAL:HG13	3:DK:120:PHE:HE1	1.86	0.41
3:D5:120:PHE:HD2	3:D5:146:TRP:CZ2	2.38	0.41
3:DG:64:VAL:HG13	3:DG:120:PHE:HE1	1.85	0.41
3:DR:64:VAL:HG13	3:DR:120:PHE:HE1	1.85	0.41
3:DR:120:PHE:HD2	3:DR:146:TRP:CZ2	2.38	0.41
3:EB:120:PHE:HD2	3:EB:146:TRP:CZ2	2.38	0.41
3:D2:64:VAL:HG13	3:D2:120:PHE:HE1	1.85	0.41
3:D1:64:VAL:HG13	3:D1:120:PHE:HE1	1.85	0.41
3:DB:101:ARG:HH12	3:DB:165:ASP:HB3	1.84	0.41
3:DC:103:SER:HB3	3:DC:159:PRO:C	2.40	0.41
3:DT:103:SER:HB3	3:DT:159:PRO:C	2.40	0.41
3:EB:103:SER:HB3	3:EB:159:PRO:C	2.40	0.41
3:DQ:103:SER:HB3	3:DQ:159:PRO:C	2.40	0.41
3:DZ:103:SER:HB3	3:DZ:159:PRO:C	2.40	0.41
3:D4:103:SER:HB3	3:D4:159:PRO:C	2.40	0.41
3:D0:103:SER:HB2	3:D0:159:PRO:HA	1.95	0.41
1:AA:66:LEU:HD21	1:AE:132:GLN:OE1	2.20	0.41
1:AF:88:PHE:CA	1:AF:207:CYS:HA	2.48	0.41
1:AG:121:LEU:HD21	1:AH:206:GLY:CA	2.47	0.41
1:AI:143:VAL:H	3:DL:14:PHE:CB	271.09	0.41
1:AJ:143:VAL:H	3:DF:14:PHE:CB	2.28	0.41
1:AM:121:LEU:HD21	1:BA:206:GLY:CA	228.76	0.41
1:AO:101:PHE:O	1:AO:199:SER:OG	2.33	0.41
1:AO:87:GLN:HA	1:AO:153:ALA:HB2	2.02	0.41
1:AP:66:LEU:HD21	1:AS:132:GLN:OE1	2.20	0.41
1:AT:132:GLN:OE1	1:AU:66:LEU:HD21	2.20	0.41
1:AV:132:GLN:OE1	1:AW:66:LEU:HD21	2.20	0.41
1:BA:106:TRP:CZ2	1:BA:158:VAL:HG13	2.54	0.41
1:BA:88:PHE:HE1	1:BA:205:GLY:CA	2.33	0.41
1:A6:132:GLN:OE1	1:A7:66:LEU:HD21	2.20	0.41
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
3:DH:98:ALA:HB2	3:DH:220:VAL:HG21	2.01	0.41
3:D9:98:ALA:HB2	3:D9:220:VAL:HG21	2.01	0.41
1:A1:88:PHE:CA	1:A1:207:CYS:HA	2.48	0.41
1:A1:41:GLU:O	1:A1:42:THR:HB	2.19	0.41
1:AZ:140:PRO:HB3	3:D0:25:LEU:HB3	2.03	0.41
1:AZ:175:GLY:N	1:AZ:183:THR:O	2.52	0.41
1:AB:175:GLY:N	1:AB:183:THR:O	2.53	0.41
1:AN:175:GLY:N	1:AN:183:THR:O	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:188:PRO:HG3	3:DO:176:VAL:CG1	2.50	0.41
1:AA:188:PRO:HG3	3:DB:176:VAL:CG1	2.50	0.41
1:AG:175:GLY:N	1:AG:183:THR:O	2.53	0.41
1:AG:188:PRO:HG3	3:DH:176:VAL:CG1	2.50	0.41
1:AF:188:PRO:HG3	3:DI:176:VAL:CG1	89.64	0.41
1:A5:140:PRO:HB3	3:D6:25:LEU:HB3	2.03	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
3:D1:98:ALA:HB2	3:D1:220:VAL:HG21	2.01	0.41
1:BF:164:TRP:HE1	1:BF:187:LEU:CD1	2.28	0.41
1:AW:175:GLY:N	1:AW:183:THR:O	2.52	0.41
1:AR:188:PRO:HG3	3:DS:176:VAL:CG1	2.50	0.41
1:AM:184:TYR:HE2	2:CO:139:ALA:HB2	104.84	0.41
2:CI:135:THR:O	2:CI:137:GLU:N	2.53	0.41
1:AM:172:ASN:HB2	2:CM:132:TYR:O	2.19	0.41
1:AD:174:TRP:HB2	2:CD:188:LEU:CD2	2.44	0.41
1:AB:172:ASN:HB2	2:CB:132:TYR:O	2.19	0.41
2:CF:135:THR:HB	2:CF:139:ALA:CB	2.50	0.41
2:C4:135:THR:O	2:C4:137:GLU:N	2.53	0.41
1:AB:103:TRP:CZ2	1:AC:208:TYR:CE2	3.06	0.41
1:AG:48:LEU:HA	1:AG:198:THR:OG1	2.20	0.41
1:AP:49:THR:CG2	1:AP:50:GLY:N	2.83	0.41
2:C5:57:THR:O	2:C5:58:LEU:CB	2.66	0.41
1:AO:48:LEU:O	1:AO:131:GLN:HG2	2.21	0.41
1:A6:48:LEU:HA	1:A6:198:THR:OG1	2.20	0.41
1:BG:48:LEU:HA	1:BG:198:THR:OG1	2.20	0.41
2:C7:57:THR:O	2:C7:58:LEU:CB	2.66	0.41
1:AA:48:LEU:HA	1:AA:198:THR:OG1	2.20	0.41
1:BI:49:THR:CG2	1:BI:50:GLY:N	2.83	0.41
2:CI:57:THR:O	2:CI:58:LEU:CB	2.66	0.41
2:CE:33:THR:HG21	2:CE:160:HIS:O	2.20	0.41
1:AM:48:LEU:O	1:AM:131:GLN:HG2	2.20	0.41
1:BH:48:LEU:HA	1:BH:198:THR:OG1	2.20	0.41
1:A7:48:LEU:O	1:A7:131:GLN:HG2	2.20	0.41
2:CT:55:GLY:HA2	2:CT:56:PRO:HD3	1.80	0.41
1:A5:48:LEU:HA	1:A5:198:THR:OG1	2.20	0.41
1:AW:48:LEU:HA	1:AW:198:THR:OG1	2.20	0.41
1:AV:48:LEU:O	1:AV:131:GLN:HG2	2.20	0.41
1:AQ:48:LEU:HA	1:AQ:198:THR:OG1	2.20	0.41
3:DQ:53:PHE:N	3:DQ:53:PHE:CD1	2.88	0.41
2:CM:153:GLN:HE22	3:DM:55:SER:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DI:152:SER:O	3:DI:153:ALA:HB2	2.21	0.41
3:DN:152:SER:O	3:DN:153:ALA:HB2	2.20	0.41
2:CJ:153:GLN:HE22	3:DJ:55:SER:CB	2.33	0.41
3:EA:152:SER:O	3:EA:153:ALA:HB2	2.21	0.41
2:C5:28:GLY:O	2:C5:168:ASN:HB2	2.21	0.41
1:A9:72:LEU:O	1:A9:75:CYS:SG	2.76	0.41
2:CK:153:GLN:HE22	3:DK:55:SER:CB	2.33	0.41
2:CS:153:GLN:HE22	3:DS:55:SER:CB	2.33	0.41
1:AJ:30:VAL:HG13	1:AJ:218:MET:CE	2.49	0.41
2:CM:28:GLY:O	2:CM:168:ASN:HB2	2.20	0.41
2:CC:153:GLN:HE22	3:DC:55:SER:CB	2.33	0.41
2:CD:153:GLN:HE22	3:DD:55:SER:N	2.19	0.41
2:CR:28:GLY:O	2:CR:168:ASN:HB2	2.20	0.41
2:CZ:28:GLY:O	2:CZ:168:ASN:HB2	2.20	0.41
3:D8:53:PHE:CD1	3:D8:53:PHE:N	2.88	0.41
3:D0:152:SER:O	3:D0:153:ALA:HB2	2.21	0.41
2:C3:28:GLY:O	2:C3:168:ASN:HB2	2.21	0.41
2:CP:88:LEU:C	2:CP:90:LYS:H	2.24	0.41
1:BH:184:TYR:HE2	2:CW:139:ALA:HB3	238.36	0.41
1:AB:219:TYR:CE2	3:DD:39:ARG:HD2	70.31	0.41
1:AF:219:TYR:CE2	3:DF:39:ARG:HD2	2.55	0.41
1:AF:219:TYR:CE2	3:DH:39:ARG:HD2	70.31	0.41
1:AH:219:TYR:CE2	3:DH:39:ARG:HD2	2.55	0.41
1:AD:219:TYR:CE2	3:DD:39:ARG:HD2	2.55	0.41
1:AF:219:TYR:HA	3:DF:39:ARG:HA	2.02	0.41
1:AD:219:TYR:CE2	3:DF:39:ARG:HD2	99.67	0.41
1:BF:79:PHE:CE2	1:BF:160:TYR:CD2	3.08	0.41
1:AC:219:TYR:HA	3:DC:39:ARG:HA	2.02	0.41
1:AG:168:PRO:HB3	2:CG:180:PRO:HB3	2.02	0.41
1:BI:219:TYR:CE2	3:EE:39:ARG:HD2	2.55	0.41
1:AR:219:TYR:HA	3:DR:39:ARG:HA	2.02	0.41
1:BI:79:PHE:CE2	1:BI:160:TYR:CD2	3.08	0.41
1:AX:79:PHE:CE2	1:AX:160:TYR:CD2	3.08	0.41
1:A4:168:PRO:HB3	2:C5:180:PRO:HB3	2.03	0.41
1:BG:219:TYR:CE2	3:EC:39:ARG:HD2	2.55	0.41
1:BG:168:PRO:HB3	2:CV:180:PRO:HB3	241.25	0.41
2:C2:135:THR:HB	2:C2:139:ALA:CB	2.50	0.41
1:BH:219:TYR:CE2	3:ED:39:ARG:HD2	2.55	0.41
2:C1:69:TRP:HZ2	2:C1:198:ILE:HG23	1.85	0.41
1:A8:184:TYR:HE2	2:C9:139:ALA:HB3	1.84	0.41
1:AZ:174:TRP:HB2	2:C0:188:LEU:CD2	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:135:THR:HB	2:CY:139:ALA:CB	2.50	0.41
3:DA:54:CYS:SG	3:DA:208:VAL:HG21	2.61	0.41
1:AQ:43:LEU:H	1:AQ:43:LEU:HD23	1.81	0.41
2:CT:103:LEU:HD12	2:CT:223:ASN:HB2	2.02	0.41
2:CQ:103:LEU:O	2:CQ:223:ASN:ND2	2.49	0.41
2:CX:103:LEU:HD21	3:EA:163:PRO:HD3	157.22	0.41
2:CU:103:LEU:HD21	3:DV:163:PRO:HD3	2.01	0.41
1:A8:110:GLY:H	1:A9:242:ASN:ND2	2.12	0.41
3:DE:115:ALA:CB	3:DE:194:THR:OG1	2.67	0.41
2:CN:166:ARG:HD3	3:DN:110:PHE:O	2.20	0.41
2:CI:23:ILE:CD1	2:CI:23:ILE:N	2.81	0.41
1:AA:6:GLU:O	2:CC:162:LEU:N	115.56	0.41
1:AS:224:ILE:HA	1:AS:225:PRO:HD2	1.86	0.41
1:AG:224:ILE:HD11	3:DG:89:TYR:CE1	2.55	0.41
1:AD:6:GLU:O	2:CD:162:LEU:N	2.53	0.41
1:AN:6:GLU:O	2:CB:162:LEU:N	170.95	0.41
1:AJ:6:GLU:O	2:CJ:162:LEU:N	2.53	0.41
1:AL:225:PRO:HA	1:AL:226:PRO:HD2	1.88	0.41
1:AN:224:ILE:HD11	3:DN:89:TYR:CE1	2.55	0.41
1:AL:224:ILE:HD11	3:DN:89:TYR:CE1	84.05	0.41
1:A7:224:ILE:HD11	3:D8:89:TYR:CE1	2.55	0.41
1:AT:6:GLU:O	2:CU:162:LEU:N	2.53	0.41
1:A0:6:GLU:O	2:C1:162:LEU:N	2.53	0.41
3:D6:179:VAL:HG12	3:D6:181:GLY:N	2.33	0.41
1:BF:107:PHE:CE1	1:BF:196:LEU:HB2	2.55	0.41
1:BD:107:PHE:CE1	1:BD:196:LEU:HB2	2.55	0.41
1:AC:128:VAL:O	1:AC:128:VAL:HG13	2.19	0.41
3:DX:79:SER:O	3:DX:81:SER:N	2.51	0.41
1:AA:93:THR:O	1:AA:95:SER:N	2.53	0.41
4:F9:31:GLN:HB3	4:F9:32:ASN:H	1.72	0.41
1:AX:93:THR:O	1:AX:95:SER:N	2.53	0.41
1:BE:93:THR:O	1:BE:95:SER:N	2.53	0.41
2:C4:77:HIS:HE1	2:C4:144:GLU:HG2	1.84	0.41
1:A6:93:THR:O	1:A6:95:SER:N	2.53	0.41
2:C3:77:HIS:HE1	2:C3:144:GLU:HG2	1.84	0.41
4:FH:32:ASN:HB3	4:FH:33:SER:H	1.58	0.41
1:AK:225:PRO:HA	1:AK:226:PRO:HD2	1.88	0.41
4:F8:31:GLN:HE21	4:F8:31:GLN:HA	1.85	0.41
4:F1:21:ILE:HG22	4:F1:21:ILE:O	2.20	0.41
1:AC:243:ILE:HG13	1:AC:243:ILE:H	1.70	0.41
1:AL:243:ILE:H	1:AL:243:ILE:HG13	1.70	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FU:21:ILE:HG22	4:FU:21:ILE:O	2.20	0.41
4:FU:31:GLN:HA	4:FU:31:GLN:HE21	1.85	0.41
1:AN:234:LYS:HD3	1:AN:234:LYS:HA	1.89	0.41
4:F2:31:GLN:HA	4:F2:31:GLN:HE21	1.85	0.41
4:FW:21:ILE:HG22	4:FW:21:ILE:O	2.20	0.41
4:FE:31:GLN:HA	4:FE:31:GLN:HE21	1.85	0.41
4:FX:31:GLN:HA	4:FX:31:GLN:HE21	1.85	0.41
1:AL:93:THR:O	1:AL:95:SER:N	2.53	0.41
1:A2:92:THR:HB	1:A2:93:THR:H	1.62	0.41
4:F0:32:ASN:HB3	4:F0:33:SER:H	1.58	0.41
2:CI:117:SER:HB3	3:DX:192:THR:CG2	2.48	0.41
3:DD:120:PHE:HD2	3:DD:146:TRP:CZ2	2.38	0.41
3:DQ:64:VAL:HG13	3:DQ:120:PHE:HE1	1.85	0.41
3:DC:64:VAL:HG13	3:DC:120:PHE:HE1	1.86	0.41
3:DF:64:VAL:HG13	3:DF:120:PHE:HE1	1.86	0.41
3:DV:120:PHE:HD2	3:DV:146:TRP:CZ2	2.38	0.41
3:DQ:100:TYR:HA	3:DQ:215:SER:O	2.21	0.41
3:EE:103:SER:HB3	3:EE:159:PRO:C	2.40	0.41
3:EE:101:ARG:HH12	3:EE:165:ASP:HB3	1.84	0.41
1:AF:140:PRO:HB3	3:DH:25:LEU:HB3	41.39	0.41
1:AF:88:PHE:HE1	1:AF:205:GLY:CA	2.33	0.41
1:AI:41:GLU:O	1:AI:42:THR:HB	2.19	0.41
1:AK:88:PHE:HE1	1:AK:205:GLY:CA	2.33	0.41
1:AT:140:PRO:HB3	3:DU:25:LEU:HB3	2.03	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:BF:41:GLU:O	1:BF:42:THR:HB	2.19	0.41
1:BH:132:GLN:OE1	1:BI:66:LEU:HD21	2.20	0.41
1:AA:140:PRO:HB3	3:DA:25:LEU:HB3	2.03	0.41
3:DK:8:VAL:CG1	3:DK:9:PRO:HD2	2.39	0.41
1:BF:140:PRO:HB3	3:EB:25:LEU:HB3	2.03	0.41
4:FV:29:GLN:HB2	4:FV:30:TYR:HD1	1.84	0.41
1:A7:87:GLN:HA	1:A7:153:ALA:HB2	2.02	0.41
3:D4:13:SER:O	3:D5:9:PRO:HD3	2.20	0.41
3:DW:13:SER:O	3:DX:9:PRO:HD3	2.20	0.41
1:A5:41:GLU:O	1:A5:42:THR:HB	2.19	0.41
1:AZ:41:GLU:O	1:AZ:42:THR:HB	2.19	0.41
1:BA:112:PRO:CG	3:DQ:223:PRO:HD3	121.24	0.41
1:BD:175:GLY:N	1:BD:183:THR:O	2.52	0.41
1:AA:164:TRP:HE1	1:AA:187:LEU:CD1	2.28	0.41
1:A4:188:PRO:HG3	3:D6:176:VAL:CG1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:175:GLY:N	1:A3:183:THR:O	2.52	0.41
1:A2:175:GLY:N	1:A2:183:THR:O	2.52	0.41
1:AZ:112:PRO:CG	3:D1:223:PRO:HD3	2.50	0.41
1:BF:175:GLY:N	1:BF:183:THR:O	2.52	0.41
1:BC:164:TRP:HE1	1:BC:187:LEU:CD1	2.28	0.41
2:CZ:209:VAL:N	2:CZ:210:PRO:CD	2.68	0.41
2:CF:209:VAL:O	2:CF:209:VAL:CG1	2.65	0.41
2:CA:209:VAL:O	2:CA:209:VAL:CG1	2.65	0.41
1:AC:184:TYR:HE2	2:CC:139:ALA:HB2	1.85	0.41
1:AG:184:TYR:CE2	2:CG:139:ALA:CB	3.03	0.41
1:AK:184:TYR:CE2	2:CK:139:ALA:CB	3.03	0.41
1:BD:184:TYR:CE2	2:CS:139:ALA:CB	164.98	0.41
2:CJ:135:THR:HB	2:CJ:139:ALA:CB	2.50	0.41
2:C4:135:THR:HB	2:C4:139:ALA:CB	2.50	0.41
1:AL:115:THR:HG23	1:AL:133:LEU:N	2.25	0.41
1:AL:48:LEU:O	1:AL:131:GLN:HG2	2.20	0.41
1:BD:48:LEU:O	1:BD:131:GLN:HG2	2.20	0.41
1:AP:48:LEU:HA	1:AP:198:THR:OG1	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:CW:56:PRO:C	2:CW:57:THR:O	2.59	0.41
2:CD:56:PRO:C	2:CD:57:THR:O	2.59	0.41
1:AA:208:TYR:CE2	1:AN:103:TRP:CZ2	259.38	0.41
1:AZ:48:LEU:O	1:AZ:131:GLN:HG2	2.20	0.41
2:CB:56:PRO:C	2:CB:57:THR:O	2.59	0.41
1:AA:115:THR:HG23	1:AA:133:LEU:N	2.25	0.41
1:AA:49:THR:CG2	1:AA:50:GLY:N	2.83	0.41
1:BI:48:LEU:O	1:BI:131:GLN:HG2	2.20	0.41
2:CM:56:PRO:C	2:CM:57:THR:O	2.59	0.41
1:AX:49:THR:CG2	1:AX:50:GLY:N	2.83	0.41
2:C9:33:THR:HG21	2:C9:160:HIS:O	2.20	0.41
1:AP:172:ASN:OD1	1:AP:184:TYR:OH	2.27	0.41
1:BA:49:THR:CG2	1:BA:50:GLY:N	2.83	0.41
1:BA:103:TRP:CZ2	1:BB:208:TYR:CE2	3.06	0.41
1:A4:48:LEU:HA	1:A4:198:THR:OG1	2.20	0.41
1:AY:48:LEU:O	1:AY:131:GLN:HG2	2.20	0.41
1:AQ:48:LEU:O	1:AQ:131:GLN:HG2	2.20	0.41
2:C3:33:THR:HG21	2:C3:160:HIS:O	2.20	0.41
1:AU:48:LEU:O	1:AU:131:GLN:HG2	2.21	0.41
2:C1:33:THR:HG21	2:C1:160:HIS:O	2.20	0.41
3:DI:53:PHE:CD1	3:DI:53:PHE:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:152:SER:O	3:DV:153:ALA:HB2	2.21	0.41
3:DJ:152:SER:O	3:DJ:153:ALA:HB2	2.21	0.41
1:AC:72:LEU:O	1:AC:75:CYS:SG	2.76	0.41
2:CX:28:GLY:O	2:CX:168:ASN:HB2	2.21	0.41
2:CN:28:GLY:O	2:CN:168:ASN:HB2	2.21	0.41
2:CB:153:GLN:HE22	3:DB:55:SER:N	2.19	0.41
2:CA:28:GLY:O	2:CA:168:ASN:HB2	2.21	0.41
2:CC:153:GLN:HE22	3:DC:55:SER:N	2.19	0.41
3:D7:152:SER:O	3:D7:153:ALA:HB2	2.21	0.41
2:C8:153:GLN:HE22	3:D8:55:SER:CB	2.33	0.41
2:CY:28:GLY:O	2:CY:168:ASN:HB2	2.21	0.41
2:CD:88:LEU:C	2:CD:90:LYS:H	2.24	0.41
2:CY:88:LEU:C	2:CY:90:LYS:H	2.23	0.41
2:CO:88:LEU:C	2:CO:90:LYS:H	2.23	0.41
2:CZ:88:LEU:C	2:CZ:90:LYS:H	2.23	0.41
1:AL:168:PRO:HB3	2:CL:180:PRO:HB3	2.03	0.41
1:AN:168:PRO:HB3	2:CB:180:PRO:HB3	195.26	0.41
1:AN:219:TYR:CE2	3:DN:39:ARG:HD2	2.55	0.41
1:BE:79:PHE:CE2	1:BE:160:TYR:CD2	3.08	0.41
1:BD:168:PRO:HB3	2:CS:180:PRO:HB3	150.82	0.41
1:AG:219:TYR:CE2	3:DG:39:ARG:HD2	2.55	0.41
1:AI:219:TYR:HA	3:DK:39:ARG:HA	240.28	0.41
1:AM:219:TYR:CE2	3:DO:39:ARG:HD2	70.31	0.41
1:A7:79:PHE:CE2	1:A7:160:TYR:CD2	3.08	0.41
1:A3:219:TYR:CE2	3:D4:39:ARG:HD2	2.55	0.41
1:A1:184:TYR:CE2	2:C2:139:ALA:CB	3.03	0.41
2:C4:74:SER:O	2:C4:75:HIS:C	2.58	0.41
1:BD:62:SER:HB2	1:BD:73:ASN:ND2	2.27	0.41
1:A2:184:TYR:HE2	2:C3:139:ALA:HB3	1.84	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
2:CX:69:TRP:HZ2	2:CX:198:ILE:HG23	1.85	0.41
1:AX:184:TYR:CE2	2:CY:139:ALA:CB	3.03	0.41
3:D2:54:CYS:SG	3:D2:208:VAL:HG21	2.61	0.41
3:DU:54:CYS:SG	3:DU:208:VAL:HG21	2.61	0.41
3:DG:54:CYS:SG	3:DG:208:VAL:HG21	2.61	0.41
3:DV:54:CYS:SG	3:DV:208:VAL:HG21	2.61	0.41
1:AM:239:PHE:CD2	3:DM:226:GLN:NE2	2.87	0.41
1:AD:239:PHE:CD2	3:DD:226:GLN:NE2	2.87	0.41
1:AV:43:LEU:N	1:AV:43:LEU:CD2	2.74	0.41
1:BA:43:LEU:HD23	1:BA:43:LEU:H	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:103:LEU:HD12	2:CM:223:ASN:HB2	2.02	0.41
2:CQ:103:LEU:HD21	3:DR:163:PRO:HD3	2.01	0.41
2:CV:103:LEU:HD21	3:DW:163:PRO:HD3	2.01	0.41
2:CP:103:LEU:HD12	2:CP:223:ASN:HB2	2.02	0.41
2:CX:103:LEU:HD12	2:CX:223:ASN:HB2	2.02	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	264.81	0.41
2:CZ:103:LEU:HD12	2:CZ:223:ASN:HB2	2.02	0.41
3:DK:115:ALA:CB	3:DK:194:THR:OG1	2.67	0.41
2:CU:166:ARG:HD3	3:EB:110:PHE:O	243.82	0.41
2:CI:166:ARG:HD3	3:DI:110:PHE:O	2.20	0.41
1:AG:6:GLU:O	2:CI:162:LEU:N	115.56	0.41
1:A9:6:GLU:O	2:CA:162:LEU:N	235.74	0.41
1:AP:6:GLU:O	2:CP:162:LEU:N	2.53	0.41
1:BA:6:GLU:O	2:CP:162:LEU:N	96.57	0.41
1:A9:224:ILE:HD11	3:DA:89:TYR:CE1	232.15	0.41
1:AB:6:GLU:O	2:CB:162:LEU:N	2.53	0.41
1:A7:6:GLU:O	2:C8:162:LEU:N	2.53	0.41
2:CY:129:VAL:HA	2:CY:130:PRO:HD3	1.78	0.41
1:A4:6:GLU:O	2:C5:162:LEU:N	2.53	0.41
1:BC:132:GLN:OE1	1:BD:66:LEU:HD21	2.20	0.41
3:DJ:84:GLU:H	3:DJ:84:GLU:CD	2.21	0.41
1:A8:93:THR:O	1:A8:95:SER:N	2.53	0.41
1:AK:93:THR:O	1:AK:95:SER:N	2.53	0.41
1:A0:93:THR:O	1:A0:95:SER:N	2.53	0.41
1:AI:235:THR:HB	1:AI:236:ARG:H	1.65	0.41
1:AY:20:SER:HA	1:AY:21:PRO:HD3	1.92	0.41
4:F9:21:ILE:O	4:F9:21:ILE:HG22	2.20	0.41
4:F0:31:GLN:HA	4:F0:31:GLN:HE21	1.85	0.41
4:F6:21:ILE:O	4:F6:21:ILE:HG22	2.20	0.41
1:BB:93:THR:O	1:BB:95:SER:N	2.53	0.41
3:D9:120:PHE:HD2	3:D9:146:TRP:CZ2	2.38	0.41
2:CK:115:ASN:HD22	3:DB:190:ALA:C	264.38	0.41
2:CR:117:SER:HB3	3:DI:192:THR:CG2	160.99	0.41
2:CR:117:SER:HB3	3:EE:192:THR:CG2	2.47	0.41
3:DA:120:PHE:HD2	3:DA:146:TRP:CZ2	2.38	0.41
3:DB:64:VAL:HG13	3:DB:120:PHE:HE1	1.85	0.41
3:DI:120:PHE:HD2	3:DI:146:TRP:CZ2	2.38	0.41
2:CL:115:ASN:CA	3:DK:119:LYS:HZ3	110.24	0.41
2:CQ:207:GLN:HB3	3:DY:196:ILE:HG21	116.90	0.41
2:CX:212:THR:HG23	3:DR:188:LEU:HD22	149.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DY:64:VAL:HG13	3:DY:120:PHE:HE1	1.86	0.41
3:DQ:120:PHE:HD2	3:DQ:146:TRP:CZ2	2.38	0.41
3:DT:64:VAL:HG13	3:DT:120:PHE:HE1	1.85	0.41
3:D6:120:PHE:HD2	3:D6:146:TRP:CZ2	2.38	0.41
3:DM:103:SER:HB3	3:DM:159:PRO:C	2.40	0.41
3:D3:103:SER:HB3	3:D3:159:PRO:CA	2.35	0.41
3:DY:103:SER:OG	3:DY:213:ASP:OD2	2.39	0.41
1:A8:87:GLN:HA	1:A8:153:ALA:HB2	2.02	0.41
1:A8:206:GLY:CA	1:AB:121:LEU:HD21	228.76	0.41
1:AB:87:GLN:HA	1:AB:153:ALA:HB2	2.02	0.41
1:AC:38:PHE:CE2	1:AC:68:TRP:HB2	2.56	0.41
1:AM:42:THR:CG2	1:AM:42:THR:O	2.69	0.41
1:AM:38:PHE:CE2	1:AM:68:TRP:HB2	2.56	0.41
1:AN:87:GLN:HA	1:AN:153:ALA:HB2	2.02	0.41
1:AV:106:TRP:CZ2	1:AV:158:VAL:HG13	2.54	0.41
1:BG:38:PHE:CE2	1:BG:68:TRP:HB2	2.56	0.41
3:DA:9:PRO:HD3	3:DE:13:SER:O	2.20	0.41
1:AE:140:PRO:HB3	3:DG:25:LEU:HB3	136.02	0.41
1:AI:140:PRO:HB3	3:DI:25:LEU:HB3	2.03	0.41
3:DO:13:SER:O	3:DP:9:PRO:HD3	122.87	0.41
1:AR:140:PRO:HB3	3:DR:25:LEU:HB3	2.03	0.41
3:DU:8:VAL:CG1	3:DU:9:PRO:HD2	2.40	0.41
3:DA:27:PRO:CB	4:FA:30:TYR:HA	2.51	0.41
1:AU:143:VAL:H	3:DW:14:PHE:CB	2.28	0.41
1:A4:87:GLN:HA	1:A4:153:ALA:HB2	2.02	0.41
3:D5:13:SER:O	3:D6:9:PRO:HD3	2.20	0.41
3:D6:13:SER:O	3:D7:9:PRO:HD3	2.20	0.41
3:DO:98:ALA:HB2	3:DO:220:VAL:HG21	2.01	0.41
1:A2:87:GLN:HA	1:A2:153:ALA:HB2	2.02	0.41
1:A2:38:PHE:CE2	1:A2:68:TRP:HB2	2.56	0.41
1:AY:42:THR:CG2	1:AY:42:THR:O	2.69	0.41
1:AY:140:PRO:HB3	3:DZ:25:LEU:HB3	2.03	0.41
1:BD:188:PRO:HG3	3:DO:176:VAL:CG1	216.71	0.41
1:AJ:188:PRO:HG3	3:DM:176:VAL:CG1	253.01	0.41
1:AS:188:PRO:HG3	3:DP:176:VAL:CG1	2.50	0.41
1:A8:175:GLY:N	1:A8:183:THR:O	2.52	0.41
1:AO:175:GLY:N	1:AO:183:THR:O	2.53	0.41
1:AH:188:PRO:HG3	3:DK:176:VAL:CG1	253.67	0.41
1:BB:188:PRO:HG3	3:DR:176:VAL:CG1	134.26	0.41
1:AE:174:TRP:CD1	1:AE:184:TYR:HA	2.56	0.41
1:AM:174:TRP:HB2	2:CM:188:LEU:CD2	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:184:TYR:CE2	2:CG:139:ALA:CB	135.85	0.41
1:A6:172:ASN:OD1	1:A6:184:TYR:OH	2.27	0.41
1:AJ:184:TYR:HE2	2:CL:139:ALA:HB3	264.28	0.41
1:BD:49:THR:HG22	1:BD:50:GLY:H	1.82	0.41
1:AP:48:LEU:O	1:AP:131:GLN:HG2	2.20	0.41
1:BF:48:LEU:O	1:BF:131:GLN:HG2	2.20	0.41
2:CN:20:GLY:CA	2:CN:56:PRO:O	2.67	0.41
1:AD:48:LEU:HA	1:AD:198:THR:OG1	2.20	0.41
2:C5:56:PRO:C	2:C5:57:THR:O	2.59	0.41
2:CO:20:GLY:CA	2:CO:56:PRO:O	2.67	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
1:AV:103:TRP:CZ2	1:AW:208:TYR:CE2	3.06	0.41
1:AS:49:THR:CG2	1:AS:50:GLY:N	2.83	0.41
1:AH:48:LEU:HA	1:AH:198:THR:OG1	2.20	0.41
1:BC:48:LEU:HA	1:BC:198:THR:OG1	2.20	0.41
1:BC:48:LEU:O	1:BC:131:GLN:HG2	2.20	0.41
3:DP:152:SER:O	3:DP:153:ALA:HB2	2.21	0.41
2:CI:153:GLN:HE22	3:DI:55:SER:CB	2.33	0.41
2:CV:153:GLN:HE22	3:EC:55:SER:N	261.64	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
3:EB:53:PHE:N	3:EB:53:PHE:CD1	2.88	0.41
2:CT:153:GLN:HE22	3:EA:55:SER:N	188.10	0.41
2:CX:153:GLN:HE22	3:DX:55:SER:N	2.19	0.41
2:CH:28:GLY:O	2:CH:168:ASN:HB2	2.20	0.41
2:C3:153:GLN:HE22	3:D3:55:SER:CB	2.33	0.41
1:A1:65:GLN:HG2	1:A1:70:ARG:HD2	2.01	0.41
3:DR:152:SER:O	3:DR:153:ALA:HB2	2.21	0.41
2:CO:28:GLY:O	2:CO:168:ASN:HB2	2.20	0.41
2:C9:153:GLN:HE22	3:D9:55:SER:CB	2.33	0.41
3:DA:53:PHE:CD1	3:DA:53:PHE:N	2.88	0.41
3:DK:152:SER:O	3:DK:153:ALA:HB2	2.21	0.41
2:C5:153:GLN:HE22	3:D5:55:SER:CB	2.33	0.41
3:D5:53:PHE:N	3:D5:53:PHE:CD1	2.88	0.41
3:DS:152:SER:O	3:DS:153:ALA:HB2	2.21	0.41
3:DS:53:PHE:N	3:DS:53:PHE:CD1	2.88	0.41
3:D2:53:PHE:CD1	3:D2:53:PHE:N	2.88	0.41
1:AQ:170:PHE:HD2	1:AQ:222:ARG:NH1	2.17	0.41
1:BH:174:TRP:CD1	1:BH:184:TYR:HA	2.56	0.41
1:AC:160:TYR:OH	1:AC:167:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:160:TYR:OH	1:AG:167:VAL:HG23	2.21	0.41
1:AB:219:TYR:CE2	3:DB:39:ARG:HD2	2.55	0.41
1:AH:168:PRO:HB3	2:CJ:180:PRO:HB3	83.49	0.41
1:AE:219:TYR:HA	3:DG:39:ARG:HA	112.85	0.41
1:AK:168:PRO:HB3	2:CM:180:PRO:HB3	83.49	0.41
1:AC:219:TYR:HD2	3:DC:39:ARG:HB2	1.79	0.41
2:C1:135:THR:HB	2:C1:139:ALA:CB	2.50	0.41
1:BH:79:PHE:CE2	1:BH:160:TYR:CD2	3.08	0.41
1:AN:62:SER:HB2	1:AN:73:ASN:ND2	2.27	0.41
2:CV:69:TRP:CZ3	2:CV:124:LEU:HD21	2.56	0.41
3:DV:75:GLN:NE2	3:DV:184:GLN:OE1	2.49	0.41
1:A2:219:TYR:HA	3:D3:39:ARG:HA	2.02	0.41
2:CR:69:TRP:CZ3	2:CR:124:LEU:HD21	2.56	0.41
1:AS:219:TYR:HA	3:DT:39:ARG:HA	2.02	0.41
2:CH:88:LEU:C	2:CH:90:LYS:H	2.23	0.41
3:D7:75:GLN:NE2	3:D7:184:GLN:OE1	2.49	0.41
3:DC:75:GLN:NE2	3:DC:184:GLN:OE1	2.49	0.41
1:A5:219:TYR:CE2	3:D6:39:ARG:HD2	2.55	0.41
2:CX:74:SER:O	2:CX:75:HIS:C	2.58	0.41
2:C0:134:HIS:HB3	2:C0:135:THR:H	1.47	0.41
1:BI:62:SER:HB2	1:BI:73:ASN:ND2	2.27	0.41
3:DH:54:CYS:SG	3:DH:208:VAL:HG21	2.61	0.41
1:AE:239:PHE:CD2	3:DG:226:GLN:NE2	123.64	0.41
1:A3:239:PHE:CD2	3:D4:226:GLN:NE2	2.87	0.41
2:CI:103:LEU:HD12	2:CI:223:ASN:HB2	2.02	0.41
2:CI:103:LEU:HD21	3:DJ:163:PRO:HD3	2.01	0.41
2:CJ:103:LEU:HD12	2:CJ:223:ASN:HB2	2.02	0.41
2:CG:103:LEU:HD21	3:DH:163:PRO:HD3	2.01	0.41
2:CR:103:LEU:O	2:CR:223:ASN:ND2	2.49	0.41
2:CR:65:LYS:CB	3:DI:135:ARG:HH21	164.35	0.41
2:CJ:65:LYS:CB	3:DM:135:ARG:HH21	240.74	0.41
2:CC:65:LYS:CB	3:ED:135:ARG:HH21	247.50	0.41
3:DU:115:ALA:CB	3:DU:194:THR:OG1	2.67	0.41
2:C9:166:ARG:HD3	3:D9:110:PHE:O	2.20	0.41
3:EC:115:ALA:CB	3:EC:194:THR:OG1	2.67	0.41
1:AI:224:ILE:HA	1:AI:225:PRO:HD2	1.86	0.41
1:AL:6:GLU:O	2:CL:162:LEU:N	2.53	0.41
1:AB:224:ILE:HD11	3:DD:89:TYR:CE1	84.05	0.41
1:AD:224:ILE:HD11	3:DF:89:TYR:CE1	111.46	0.41
1:A3:224:ILE:HD11	3:D4:89:TYR:CE1	2.55	0.41
1:A1:6:GLU:O	2:C2:162:LEU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:224:ILE:HD11	3:D6:89:TYR:CE1	2.55	0.41
1:AQ:6:GLU:O	2:CQ:162:LEU:N	2.53	0.41
1:BF:224:ILE:HD11	3:EB:89:TYR:CE1	2.55	0.41
1:A6:224:ILE:HD11	3:D7:89:TYR:CE1	2.55	0.41
1:AZ:6:GLU:O	2:C0:162:LEU:N	2.53	0.41
1:AY:6:GLU:O	2:CZ:162:LEU:N	2.53	0.41
1:AP:132:GLN:OE1	1:AQ:66:LEU:HD21	2.20	0.41
1:AW:132:GLN:OE1	1:AX:66:LEU:HD21	2.20	0.41
1:A3:66:LEU:HD21	1:A7:132:GLN:OE1	2.20	0.41
1:AW:107:PHE:CE1	1:AW:196:LEU:HB2	2.55	0.41
1:AX:107:PHE:CE1	1:AX:196:LEU:HB2	2.55	0.41
1:AY:128:VAL:O	1:AY:128:VAL:HG13	2.19	0.41
3:EE:79:SER:O	3:EE:81:SER:N	2.51	0.41
3:DP:79:SER:O	3:DP:81:SER:N	2.51	0.41
3:DE:84:GLU:CD	3:DE:84:GLU:H	2.21	0.41
1:AA:7:ASP:O	1:AA:8:GLY:C	2.59	0.41
1:BE:235:THR:HB	1:BE:236:ARG:H	1.65	0.41
2:C0:42:ARG:HA	2:C0:43:PRO:HD2	1.64	0.41
1:BC:7:ASP:O	1:BC:8:GLY:C	2.59	0.41
1:BI:235:THR:HB	1:BI:236:ARG:H	1.65	0.41
4:FK:21:ILE:HG22	4:FK:21:ILE:O	2.20	0.41
2:CJ:95:HIS:CD2	2:CJ:95:HIS:C	2.93	0.41
2:CK:95:HIS:C	2:CK:95:HIS:CD2	2.93	0.41
2:CL:95:HIS:CD2	2:CL:95:HIS:C	2.93	0.41
1:BE:243:ILE:HG13	1:BE:243:ILE:H	1.69	0.41
1:AD:93:THR:O	1:AD:95:SER:N	2.53	0.41
4:F7:32:ASN:HB3	4:F7:33:SER:H	1.58	0.41
3:DJ:120:PHE:HD2	3:DJ:146:TRP:CZ2	2.38	0.41
3:DX:120:PHE:HD2	3:DX:146:TRP:CZ2	2.38	0.41
3:DM:64:VAL:HG13	3:DM:120:PHE:HE1	1.85	0.41
3:D7:64:VAL:HG13	3:D7:120:PHE:HE1	1.86	0.41
3:DY:120:PHE:HD2	3:DY:146:TRP:CZ2	2.38	0.41
3:DE:120:PHE:HD2	3:DE:146:TRP:CZ2	2.38	0.41
3:DZ:120:PHE:HD2	3:DZ:146:TRP:CZ2	2.38	0.41
3:DG:100:TYR:HA	3:DG:215:SER:O	2.21	0.41
3:DI:100:TYR:HA	3:DI:215:SER:O	2.21	0.41
3:DL:100:TYR:HA	3:DL:215:SER:O	2.21	0.41
3:DO:103:SER:HB3	3:DO:159:PRO:C	2.40	0.41
3:DP:103:SER:HB3	3:DP:159:PRO:C	2.40	0.41
3:DT:160:TYR:C	3:DT:160:TYR:CD1	2.94	0.41
3:D4:100:TYR:HA	3:D4:215:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DY:103:SER:HB3	3:DY:159:PRO:C	2.40	0.41
3:D7:100:TYR:HA	3:D7:215:SER:O	2.21	0.41
3:D8:103:SER:HB3	3:D8:159:PRO:C	2.40	0.41
2:C5:46:THR:CG2	3:D6:165:ASP:HA	2.37	0.41
1:AA:88:PHE:CA	1:AA:207:CYS:HA	2.48	0.41
1:AA:41:GLU:O	1:AA:42:THR:HB	2.19	0.41
1:AA:42:THR:CG2	1:AA:42:THR:O	2.69	0.41
1:AD:101:PHE:O	1:AD:199:SER:OG	2.33	0.41
1:AH:38:PHE:CD2	1:AH:68:TRP:HB2	2.56	0.41
1:AI:38:PHE:CE2	1:AI:68:TRP:HB2	2.56	0.41
1:AI:38:PHE:CD2	1:AI:68:TRP:HB2	2.56	0.41
1:AK:38:PHE:CD2	1:AK:68:TRP:HB2	2.56	0.41
1:AL:42:THR:CG2	1:AL:42:THR:O	2.69	0.41
1:AO:38:PHE:CE2	1:AO:68:TRP:HB2	2.56	0.41
1:AQ:88:PHE:CA	1:AQ:207:CYS:HA	2.48	0.41
1:AQ:38:PHE:CE2	1:AQ:68:TRP:HB2	2.56	0.41
1:AR:42:THR:CG2	1:AR:42:THR:O	2.69	0.41
1:AS:83:GLU:C	1:AS:84:LEU:HD12	2.41	0.41
1:AW:146:ILE:HG21	1:AW:146:ILE:HD13	1.74	0.41
1:AX:87:GLN:HA	1:AX:153:ALA:HB2	2.02	0.41
1:AX:42:THR:CG2	1:AX:42:THR:O	2.69	0.41
1:BA:140:PRO:HB3	3:DP:25:LEU:HB3	124.61	0.41
1:BB:88:PHE:HE1	1:BB:205:GLY:CA	2.33	0.41
1:BC:140:PRO:HB3	3:DR:25:LEU:HB3	144.94	0.41
1:BD:140:PRO:HB3	3:DS:25:LEU:HB3	141.76	0.41
1:BF:42:THR:CG2	1:BF:42:THR:O	2.69	0.41
1:BF:38:PHE:CD2	1:BF:68:TRP:HB2	2.56	0.41
1:AG:140:PRO:HB3	3:DG:25:LEU:HB3	2.03	0.41
3:DK:9:PRO:HD3	3:DO:13:SER:O	2.20	0.41
3:DJ:9:PRO:HD3	3:DN:13:SER:O	264.55	0.41
3:DO:9:PRO:HD3	3:DS:13:SER:O	148.07	0.41
3:EA:23:THR:HA	3:EA:24:PRO:HD3	1.89	0.41
3:DH:27:PRO:CB	4:FH:30:TYR:HA	2.51	0.41
3:DL:27:PRO:CB	4:FL:30:TYR:HA	2.51	0.41
1:AU:139:SER:HA	1:AU:140:PRO:HD3	1.62	0.41
1:A4:83:GLU:C	1:A4:84:LEU:HD12	2.41	0.41
1:AG:112:PRO:CG	3:DH:223:PRO:HD3	2.50	0.41
1:AH:112:PRO:CG	3:DI:223:PRO:HD3	2.50	0.41
1:A5:38:PHE:CD2	1:A5:68:TRP:HB2	2.56	0.41
1:AZ:38:PHE:CD2	1:AZ:68:TRP:HB2	2.56	0.41
1:AC:188:PRO:HG3	3:DD:176:VAL:CG1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:174:TRP:HB2	2:CA:188:LEU:CD2	259.82	0.41
1:AG:174:TRP:CD1	1:AG:184:TYR:HA	2.56	0.41
1:AK:184:TYR:HE2	2:CK:139:ALA:HB2	1.86	0.41
1:AB:49:THR:CG2	1:AB:50:GLY:N	2.83	0.41
1:BE:49:THR:CG2	1:BE:50:GLY:N	2.83	0.41
1:AT:48:LEU:O	1:AT:131:GLN:HG2	2.21	0.41
1:AW:174:TRP:CD1	1:AW:184:TYR:HA	2.56	0.41
1:BI:174:TRP:CD1	1:BI:184:TYR:HA	2.56	0.41
1:AR:48:LEU:HA	1:AR:198:THR:OG1	2.20	0.41
1:A6:49:THR:CG2	1:A6:50:GLY:N	2.83	0.41
2:C1:20:GLY:CA	2:C1:56:PRO:O	2.67	0.41
2:CE:20:GLY:CA	2:CE:56:PRO:O	2.67	0.41
2:CS:55:GLY:HA2	2:CS:56:PRO:HD3	1.80	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:AY:48:LEU:HA	1:AY:198:THR:OG1	2.20	0.41
1:AU:48:LEU:HA	1:AU:198:THR:OG1	2.20	0.41
3:DH:53:PHE:N	3:DH:53:PHE:CD1	2.88	0.41
2:CN:153:GLN:HE22	3:DN:55:SER:N	2.19	0.41
2:CL:153:GLN:HE22	3:DL:55:SER:CB	2.33	0.41
3:DL:152:SER:O	3:DL:153:ALA:HB2	2.21	0.41
2:CL:153:GLN:NE2	3:DL:53:PHE:O	2.50	0.41
3:DG:152:SER:O	3:DG:153:ALA:HB2	2.21	0.41
2:CG:153:GLN:HE22	3:DG:55:SER:N	2.19	0.41
2:CE:153:GLN:HE22	3:DE:55:SER:N	2.19	0.41
2:CR:153:GLN:HE22	3:DR:55:SER:N	2.19	0.41
2:CW:153:GLN:HE22	3:DW:55:SER:CB	2.33	0.41
2:CX:13:ARG:HD3	2:CX:13:ARG:HA	1.72	0.41
2:CK:153:GLN:NE2	3:DK:53:PHE:O	2.50	0.41
3:DZ:152:SER:O	3:DZ:153:ALA:HB2	2.21	0.41
2:CS:153:GLN:HE22	3:DS:55:SER:N	2.19	0.41
1:AN:75:CYS:CB	1:AN:218:MET:SD	3.03	0.41
2:CG:28:GLY:O	2:CG:168:ASN:HB2	2.21	0.41
1:AY:170:PHE:HD2	1:AY:222:ARG:NH1	2.18	0.41
3:DD:53:PHE:N	3:DD:53:PHE:CD1	2.88	0.41
3:D6:152:SER:O	3:D6:153:ALA:HB2	2.21	0.41
2:CX:88:LEU:C	2:CX:90:LYS:H	2.23	0.41
1:BE:174:TRP:CD1	1:BE:184:TYR:HA	2.56	0.41
1:BB:160:TYR:OH	1:BB:167:VAL:HG23	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:168:PRO:HB3	2:CB:180:PRO:HB3	2.03	0.41
1:AF:168:PRO:HB3	2:CH:180:PRO:HB3	83.49	0.41
1:AN:219:TYR:CE2	3:DB:39:ARG:HD2	182.35	0.41
1:AJ:219:TYR:CE2	3:DL:39:ARG:HD2	229.21	0.41
1:AC:168:PRO:HB3	2:CE:180:PRO:HB3	83.49	0.41
1:AE:168:PRO:HB3	2:CE:180:PRO:HB3	2.03	0.41
1:AI:168:PRO:HB3	2:CI:180:PRO:HB3	2.03	0.41
1:AG:219:TYR:CE2	3:DI:39:ARG:HD2	70.31	0.41
1:AK:219:TYR:HD2	3:DK:39:ARG:HB2	1.79	0.41
1:BB:184:TYR:CE2	2:CQ:139:ALA:CB	131.59	0.41
1:BG:79:PHE:CE2	1:BG:160:TYR:CD2	3.08	0.41
1:AW:160:TYR:OH	1:AW:167:VAL:HG23	2.21	0.41
2:CP:69:TRP:CZ3	2:CP:124:LEU:HD21	2.56	0.41
2:CU:69:TRP:CZ3	2:CU:124:LEU:HD21	2.56	0.41
1:A0:184:TYR:HE2	2:C1:139:ALA:HB2	1.86	0.41
1:A2:168:PRO:HB3	2:C3:180:PRO:HB3	2.03	0.41
2:C5:74:SER:O	2:C5:75:HIS:C	2.58	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
2:CC:69:TRP:CZ3	2:CC:124:LEU:HD21	2.56	0.41
1:AZ:79:PHE:CE2	1:AZ:160:TYR:CD2	3.08	0.41
1:AG:62:SER:HB2	1:AG:73:ASN:ND2	2.27	0.41
1:AQ:168:PRO:HB3	2:CQ:180:PRO:HB3	2.03	0.41
1:BB:168:PRO:HB3	2:CQ:180:PRO:HB3	124.41	0.41
1:A2:160:TYR:OH	1:A2:167:VAL:HG23	2.21	0.41
2:CL:69:TRP:CZ3	2:CL:124:LEU:HD21	2.56	0.41
3:D9:54:CYS:SG	3:D9:208:VAL:HG21	2.61	0.41
3:DE:54:CYS:SG	3:DE:208:VAL:HG21	2.61	0.41
3:DL:54:CYS:SG	3:DL:208:VAL:HG21	2.61	0.41
3:DC:54:CYS:SG	3:DC:208:VAL:HG21	2.61	0.41
3:DD:54:CYS:SG	3:DD:208:VAL:HG21	2.61	0.41
3:DP:54:CYS:SG	3:DP:208:VAL:HG21	2.61	0.41
3:DW:54:CYS:SG	3:DW:208:VAL:HG21	2.61	0.41
3:DM:54:CYS:SG	3:DM:208:VAL:HG21	2.61	0.41
3:ED:54:CYS:SG	3:ED:208:VAL:HG21	2.61	0.41
1:AW:239:PHE:CD2	3:DX:226:GLN:NE2	2.87	0.41
2:CD:103:LEU:HD21	3:D9:163:PRO:HD3	157.22	0.41
2:C9:103:LEU:HD12	2:C9:223:ASN:HB2	2.02	0.41
2:CT:103:LEU:O	2:CT:223:ASN:ND2	2.49	0.41
3:DR:138:ALA:O	3:DR:141:CYS:SG	2.78	0.41
2:C8:103:LEU:O	2:C8:223:ASN:ND2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DG:115:ALA:CB	3:DG:194:THR:OG1	2.67	0.41
3:DS:115:ALA:CB	3:DS:194:THR:OG1	2.67	0.41
2:CF:23:ILE:CD1	2:CF:23:ILE:N	2.81	0.41
1:AO:6:GLU:O	2:CO:162:LEU:N	2.53	0.41
1:AI:6:GLU:O	2:CI:162:LEU:N	2.53	0.41
1:AS:224:ILE:HD11	3:DT:89:TYR:CE1	2.55	0.41
1:AC:224:ILE:HD11	3:DC:89:TYR:CE1	2.55	0.41
1:AG:224:ILE:HD11	3:DI:89:TYR:CE1	84.05	0.41
1:AK:224:ILE:HD11	3:DK:89:TYR:CE1	2.55	0.41
1:AB:6:GLU:O	2:CD:162:LEU:N	115.56	0.41
1:BI:6:GLU:O	2:CX:162:LEU:N	159.24	0.41
1:A2:224:ILE:HD11	3:D3:89:TYR:CE1	2.55	0.41
1:BD:176:ALA:C	1:BD:178:THR:H	2.22	0.41
1:AL:132:GLN:OE1	1:AM:66:LEU:HD21	2.20	0.41
1:AV:128:VAL:HG13	1:AV:128:VAL:O	2.19	0.41
3:DW:79:SER:O	3:DW:81:SER:N	2.51	0.41
3:DY:84:GLU:H	3:DY:84:GLU:CD	2.21	0.41
4:FC:31:GLN:HE21	4:FC:31:GLN:HA	1.85	0.41
4:FJ:31:GLN:HB3	4:FJ:32:ASN:H	1.72	0.41
1:BA:92:THR:HB	1:BA:93:THR:H	1.62	0.41
4:F1:32:ASN:HB3	4:F1:33:SER:H	1.58	0.41
2:CQ:77:HIS:HE1	2:CQ:144:GLU:HG2	1.84	0.41
3:D9:36:VAL:HA	3:D9:37:PRO:HD3	1.53	0.41
1:AS:235:THR:HB	1:AS:236:ARG:H	1.65	0.41
1:AE:234:LYS:HD3	1:AE:234:LYS:HA	1.89	0.41
1:AO:234:LYS:HD3	1:AO:234:LYS:HA	1.89	0.41
4:FN:31:GLN:HE21	4:FN:31:GLN:HA	1.85	0.41
4:F5:21:ILE:O	4:F5:21:ILE:HG22	2.20	0.41
1:AC:93:THR:O	1:AC:95:SER:N	2.53	0.41
1:AT:93:THR:O	1:AT:95:SER:N	2.53	0.41
3:ED:64:VAL:HG13	3:ED:120:PHE:HE1	1.85	0.41
3:DA:64:VAL:HG13	3:DA:120:PHE:HE1	1.85	0.41
2:CX:216:ALA:HA	2:CX:217:PRO:HD3	1.78	0.41
3:DO:120:PHE:HD2	3:DO:146:TRP:CZ2	2.38	0.41
2:C9:117:SER:HB3	3:DL:192:THR:CG2	95.68	0.41
2:CA:117:SER:HB3	3:DW:192:THR:CG2	2.47	0.41
2:C6:117:SER:HB3	3:DE:192:THR:CG2	2.47	0.41
3:D2:120:PHE:HD2	3:D2:146:TRP:CZ2	2.38	0.41
3:D9:160:TYR:CD1	3:D9:160:TYR:C	2.94	0.41
3:DC:160:TYR:C	3:DC:160:TYR:CD1	2.94	0.41
3:DC:100:TYR:HA	3:DC:215:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:100:TYR:HA	3:DD:215:SER:O	2.21	0.41
3:DD:103:SER:OG	3:DD:213:ASP:OD2	2.39	0.41
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:EB:103:SER:OG	3:EB:213:ASP:OD2	2.39	0.41
3:EB:100:TYR:HA	3:EB:215:SER:O	2.21	0.41
3:EC:103:SER:HB3	3:EC:159:PRO:C	2.40	0.41
3:DY:101:ARG:HH12	3:DY:165:ASP:HB3	1.84	0.41
3:ED:103:SER:OG	3:ED:213:ASP:OD2	2.39	0.41
1:AC:42:THR:O	1:AC:42:THR:CG2	2.69	0.41
1:AC:38:PHE:CD2	1:AC:68:TRP:HB2	2.56	0.41
1:AD:88:PHE:CA	1:AD:207:CYS:HA	2.48	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:AF:42:THR:O	1:AF:42:THR:CG2	2.69	0.41
1:AF:66:LEU:HD21	1:AJ:132:GLN:OE1	2.20	0.41
1:AG:42:THR:CG2	1:AG:42:THR:O	2.69	0.41
1:AH:83:GLU:C	1:AH:84:LEU:HD12	2.41	0.41
1:AI:42:THR:O	1:AI:42:THR:CG2	2.69	0.41
1:AF:206:GLY:CA	1:AJ:121:LEU:HD21	2.47	0.41
1:AL:38:PHE:CD2	1:AL:68:TRP:HB2	2.56	0.41
1:AO:42:THR:CG2	1:AO:42:THR:O	2.69	0.41
1:AO:66:LEU:HD21	1:AR:132:GLN:OE1	144.89	0.41
1:AP:88:PHE:HE1	1:AP:205:GLY:CA	2.33	0.41
1:AR:87:GLN:HA	1:AR:153:ALA:HB2	2.02	0.41
1:AS:38:PHE:CE2	1:AS:68:TRP:HB2	2.56	0.41
1:AT:38:PHE:CE2	1:AT:68:TRP:HB2	2.56	0.41
1:AU:38:PHE:CD2	1:AU:68:TRP:HB2	2.56	0.41
1:AW:41:GLU:O	1:AW:42:THR:HB	2.19	0.41
1:BB:121:LEU:HD21	1:BC:206:GLY:CA	2.47	0.41
1:BD:41:GLU:O	1:BD:42:THR:HB	2.19	0.41
1:BE:143:VAL:H	3:EB:14:PHE:CB	2.28	0.41
1:BE:83:GLU:C	1:BE:84:LEU:HD12	2.41	0.41
1:BG:42:THR:CG2	1:BG:42:THR:O	2.69	0.41
3:DF:8:VAL:CG1	3:DF:9:PRO:HD2	2.39	0.41
3:DO:23:THR:HA	3:DO:24:PRO:HD3	1.89	0.41
1:BB:140:PRO:HB3	3:DQ:25:LEU:HB3	137.26	0.41
3:EA:9:PRO:HD3	3:EE:13:SER:O	2.20	0.41
3:DD:27:PRO:CB	4:FD:30:TYR:HA	2.51	0.41
1:BD:74:THR:O	1:BD:74:THR:HG22	2.19	0.41
3:D4:8:VAL:CG1	3:D4:9:PRO:HD2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:41:GLU:O	1:AV:42:THR:HB	2.20	0.41
1:A3:139:SER:HA	1:A3:140:PRO:HD3	1.62	0.41
1:A4:38:PHE:CE2	1:A4:68:TRP:HB2	2.56	0.41
1:AC:112:PRO:CG	3:DD:223:PRO:HD3	2.50	0.41
1:AM:112:PRO:CG	3:DN:223:PRO:HD3	2.50	0.41
1:AH:112:PRO:CG	3:DK:223:PRO:HD3	270.85	0.41
1:A5:83:GLU:C	1:A5:84:LEU:HD12	2.41	0.41
1:A2:88:PHE:CA	1:A2:207:CYS:HA	2.48	0.41
3:D1:27:PRO:CB	4:F1:30:TYR:HA	2.51	0.41
3:DZ:98:ALA:HB2	3:DZ:220:VAL:HG21	2.01	0.41
3:D7:223:PRO:HB2	3:D7:224:ASP:H	1.71	0.41
1:AN:188:PRO:HG3	3:DC:176:VAL:CG1	207.36	0.41
1:AB:188:PRO:HG3	3:DC:176:VAL:CG1	2.50	0.41
1:AM:164:TRP:HE1	1:AM:187:LEU:CD1	2.28	0.41
1:AG:188:PRO:HG3	3:DE:176:VAL:CG1	154.75	0.41
1:A0:188:PRO:HG3	3:D2:176:VAL:CG1	2.50	0.41
1:A3:112:PRO:CG	3:D5:223:PRO:HD3	2.50	0.41
3:D3:98:ALA:HB2	3:D3:220:VAL:HG21	2.01	0.41
2:CX:209:VAL:O	2:CX:209:VAL:CG1	2.65	0.41
2:CV:134:HIS:HB3	2:CV:135:THR:H	1.46	0.41
1:AG:184:TYR:HE2	2:CI:139:ALA:HB2	104.84	0.41
1:AE:184:TYR:CE2	2:CE:139:ALA:CB	3.03	0.41
2:CI:139:ALA:O	2:CI:140:LEU:HB2	2.21	0.41
1:AK:184:TYR:HE2	2:CM:139:ALA:HB2	104.84	0.41
2:C8:135:THR:HB	2:C8:139:ALA:CB	2.50	0.41
1:BF:103:TRP:CZ2	1:BG:208:TYR:CE2	3.06	0.41
2:CK:55:GLY:HA2	2:CK:56:PRO:HD3	1.80	0.41
1:AX:48:LEU:O	1:AX:131:GLN:HG2	2.20	0.41
1:A0:48:LEU:O	1:A0:131:GLN:HG2	2.20	0.41
1:AM:113:THR:HG22	1:AM:114:LYS:N	2.36	0.41
2:CT:20:GLY:CA	2:CT:56:PRO:O	2.67	0.41
1:AW:113:THR:HG22	1:AW:114:LYS:N	2.36	0.41
1:AQ:49:THR:CG2	1:AQ:50:GLY:N	2.83	0.41
1:AK:48:LEU:O	1:AK:131:GLN:HG2	2.20	0.41
1:AS:48:LEU:O	1:AS:131:GLN:HG2	2.20	0.41
1:AH:48:LEU:O	1:AH:131:GLN:HG2	2.20	0.41
1:BC:49:THR:CG2	1:BC:50:GLY:N	2.83	0.41
2:CP:153:GLN:HE22	3:DP:55:SER:N	2.19	0.41
3:DH:152:SER:O	3:DH:153:ALA:HB2	2.21	0.41
2:CH:153:GLN:NE2	3:DH:53:PHE:O	2.50	0.41
2:CJ:153:GLN:HE22	3:DJ:55:SER:N	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C6:28:GLY:O	2:C6:168:ASN:HB2	2.21	0.41
2:C5:13:ARG:HA	2:C5:13:ARG:HD3	1.72	0.41
1:A3:65:GLN:HG2	1:A3:70:ARG:HD2	2.01	0.41
2:CA:152:TYR:HB3	2:CA:197:LEU:CD2	2.51	0.41
3:DW:152:SER:O	3:DW:153:ALA:HB2	2.21	0.41
2:CW:153:GLN:NE2	3:DW:53:PHE:O	2.50	0.41
2:C5:153:GLN:HE22	3:D5:55:SER:N	2.19	0.41
2:CZ:153:GLN:HE22	3:DZ:55:SER:N	2.19	0.41
2:C4:153:GLN:HE22	3:D4:55:SER:N	2.19	0.41
3:DB:152:SER:O	3:DB:153:ALA:HB2	2.21	0.41
2:CJ:28:GLY:O	2:CJ:168:ASN:HB2	2.21	0.41
2:CO:152:TYR:HB3	2:CO:197:LEU:CD2	2.51	0.41
2:CO:153:GLN:HE22	3:DO:55:SER:N	2.19	0.41
2:CC:152:TYR:HB3	2:CC:197:LEU:CD2	2.51	0.41
3:DC:152:SER:O	3:DC:153:ALA:HB2	2.21	0.41
2:C7:153:GLN:HE22	3:D7:55:SER:CB	2.33	0.41
1:AY:220:CYS:HA	1:AY:221:PRO:HD2	1.82	0.41
2:CV:28:GLY:O	2:CV:168:ASN:HB2	2.21	0.41
1:BB:75:CYS:CB	1:BB:218:MET:SD	3.03	0.41
1:AT:30:VAL:HG13	1:AT:218:MET:CE	2.49	0.41
2:CY:83:LEU:HA	2:CY:84:PRO:HA	1.60	0.41
1:AC:79:PHE:CE2	1:AC:160:TYR:CD2	3.08	0.41
1:AK:160:TYR:OH	1:AK:167:VAL:HG23	2.21	0.41
1:AM:160:TYR:OH	1:AM:167:VAL:HG23	2.21	0.41
3:DB:31:VAL:CB	4:FB:34:ILE:O	2.69	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:AY:160:TYR:OH	1:AY:167:VAL:HG23	2.21	0.41
1:AB:168:PRO:HB3	2:CD:180:PRO:HB3	83.49	0.41
1:AN:219:TYR:HD2	3:DN:39:ARG:HB2	1.79	0.41
1:AC:219:TYR:CE2	3:DE:39:ARG:HD2	70.31	0.41
1:AI:219:TYR:CE2	3:DK:39:ARG:HD2	236.18	0.41
1:AK:219:TYR:CE2	3:DK:39:ARG:HD2	2.55	0.41
1:BD:219:TYR:CE2	3:DS:39:ARG:HD2	136.06	0.41
1:AQ:184:TYR:CE2	2:CQ:139:ALA:CB	3.03	0.41
1:A1:219:TYR:CE2	3:D2:39:ARG:HD2	2.55	0.41
2:C2:180:PRO:HD2	2:C2:189:HIS:HE1	1.76	0.41
1:AW:219:TYR:CE2	3:DX:39:ARG:HD2	2.55	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:A5:160:TYR:OH	1:A5:167:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CK:69:TRP:CZ3	2:CK:124:LEU:HD21	2.56	0.41
2:CU:69:TRP:CD1	2:CU:70:PRO:N	2.89	0.41
1:A7:160:TYR:OH	1:A7:167:VAL:HG23	2.21	0.41
2:C5:180:PRO:HD2	2:C5:189:HIS:HE1	1.76	0.41
1:AV:160:TYR:OH	1:AV:167:VAL:HG23	2.21	0.41
1:AU:168:PRO:HB3	2:CV:180:PRO:HB3	2.03	0.41
1:A1:184:TYR:HE2	2:C2:139:ALA:HB2	1.86	0.41
3:D5:75:GLN:NE2	3:D5:184:GLN:OE1	2.49	0.41
1:BE:219:TYR:HD2	3:EA:39:ARG:HB2	1.79	0.41
2:CH:69:TRP:CZ3	2:CH:124:LEU:HD21	2.56	0.41
2:C5:139:ALA:O	2:C5:140:LEU:HB2	2.21	0.41
2:CW:69:TRP:CZ3	2:CW:124:LEU:HD21	2.56	0.41
2:CM:69:TRP:CZ3	2:CM:124:LEU:HD21	2.56	0.41
3:DM:75:GLN:NE2	3:DM:184:GLN:OE1	2.49	0.41
1:AI:62:SER:HB2	1:AI:73:ASN:ND2	2.27	0.41
2:CN:69:TRP:CZ3	2:CN:124:LEU:HD21	2.56	0.41
1:AT:168:PRO:HB3	2:CU:180:PRO:HB3	2.03	0.41
1:BF:219:TYR:HA	3:EB:39:ARG:HA	2.02	0.41
2:CI:69:TRP:CZ3	2:CI:124:LEU:HD21	2.56	0.41
3:D4:54:CYS:SG	3:D4:208:VAL:HG21	2.61	0.41
3:EA:54:CYS:SG	3:EA:208:VAL:HG21	2.61	0.41
3:DF:54:CYS:SG	3:DF:208:VAL:HG21	2.61	0.41
3:D5:54:CYS:SG	3:D5:208:VAL:HG21	2.61	0.41
3:EC:54:CYS:SG	3:EC:208:VAL:HG21	2.61	0.41
3:EB:54:CYS:SG	3:EB:208:VAL:HG21	2.61	0.41
1:AP:43:LEU:CD2	1:AP:43:LEU:N	2.74	0.41
2:CD:103:LEU:HD12	2:CD:223:ASN:HB2	2.02	0.41
2:CT:103:LEU:HD21	3:DP:163:PRO:HD3	2.01	0.41
1:BB:239:PHE:CD2	3:DQ:226:GLN:NE2	124.09	0.41
2:C6:103:LEU:HD12	2:C6:223:ASN:HB2	2.02	0.41
2:CP:103:LEU:O	2:CP:223:ASN:ND2	2.49	0.41
2:CG:103:LEU:O	2:CG:223:ASN:ND2	2.49	0.41
2:CU:103:LEU:O	2:CU:223:ASN:ND2	2.49	0.41
2:C7:103:LEU:O	2:C7:223:ASN:ND2	2.49	0.41
1:AB:191:HIS:HB2	1:AB:192:PHE:H	1.71	0.41
1:AK:242:ASN:ND2	1:AO:108:PRO:O	2.54	0.41
2:C0:103:LEU:O	2:C0:223:ASN:ND2	2.49	0.41
1:BE:242:ASN:ND2	1:BI:108:PRO:O	2.54	0.41
2:C2:103:LEU:HD12	2:C2:223:ASN:HB2	2.02	0.41
1:A0:242:ASN:ND2	1:AZ:108:PRO:O	2.54	0.41
2:C5:166:ARG:HD3	3:D5:110:PHE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D0:115:ALA:CB	3:D0:194:THR:OG1	2.67	0.41
1:AI:6:GLU:O	2:CK:162:LEU:N	247.42	0.41
1:AG:224:ILE:HA	1:AG:225:PRO:HD2	1.86	0.41
1:AI:224:ILE:HD11	3:DI:89:TYR:CE1	2.55	0.41
1:AC:224:ILE:HD11	3:DE:89:TYR:CE1	84.05	0.41
1:AJ:6:GLU:O	2:CL:162:LEU:N	242.59	0.41
1:AF:224:ILE:HD11	3:DF:89:TYR:CE1	2.55	0.41
1:AH:224:ILE:HA	1:AH:225:PRO:HD2	1.86	0.41
1:AR:224:ILE:HD11	3:DR:89:TYR:CE1	2.55	0.41
3:DZ:47:ALA:HB2	3:DZ:89:TYR:CD2	2.56	0.41
1:AX:6:GLU:O	2:CY:162:LEU:N	2.53	0.41
3:EA:47:ALA:HB2	3:EA:89:TYR:CD2	2.56	0.41
1:AT:66:LEU:HD21	1:AX:132:GLN:OE1	2.20	0.41
1:A8:132:GLN:OE1	1:A9:66:LEU:HD21	2.20	0.41
1:AA:107:PHE:CE1	1:AA:196:LEU:HB2	2.55	0.41
1:AC:55:HIS:O	1:AC:194:SER:HA	2.21	0.41
1:AX:55:HIS:O	1:AX:194:SER:HA	2.21	0.41
3:DK:79:SER:O	3:DK:81:SER:N	2.51	0.41
1:BB:128:VAL:O	1:BB:128:VAL:HG13	2.19	0.41
1:AU:24:MET:O	1:AU:25:HIS:HB2	2.21	0.41
1:A0:24:MET:O	1:A0:25:HIS:HB2	2.21	0.41
1:AT:24:MET:O	1:AT:25:HIS:HB2	2.21	0.41
1:AT:7:ASP:O	1:AT:8:GLY:C	2.59	0.41
1:AQ:92:THR:HB	1:AQ:93:THR:H	1.62	0.41
1:BG:93:THR:O	1:BG:95:SER:N	2.53	0.41
4:F5:32:ASN:HB3	4:F5:33:SER:H	1.58	0.41
1:AE:7:ASP:O	1:AE:8:GLY:C	2.59	0.41
1:AW:7:ASP:O	1:AW:8:GLY:C	2.59	0.41
1:AL:234:LYS:HD3	1:AL:234:LYS:HA	1.89	0.41
1:A3:234:LYS:HD3	1:A3:234:LYS:HA	1.89	0.41
1:AF:243:ILE:H	1:AF:243:ILE:HG13	1.70	0.41
1:AG:234:LYS:HA	1:AG:234:LYS:HD3	1.89	0.41
4:FZ:21:ILE:HG22	4:FZ:21:ILE:O	2.20	0.41
1:AA:20:SER:HA	1:AA:21:PRO:HD3	1.92	0.41
3:DW:36:VAL:HA	3:DW:37:PRO:HD3	1.53	0.41
2:CW:115:ASN:HD22	3:DS:190:ALA:C	253.65	0.41
3:D8:64:VAL:HG13	3:D8:120:PHE:HE1	1.85	0.41
3:DW:120:PHE:HD2	3:DW:146:TRP:CZ2	2.38	0.41
2:CE:207:GLN:HB3	3:DC:196:ILE:HG21	165.77	0.41
3:D0:64:VAL:HG13	3:D0:120:PHE:HE1	1.86	0.41
3:DV:64:VAL:HG13	3:DV:120:PHE:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:DI:160:TYR:CD1	3:DI:160:TYR:C	2.94	0.41
3:DP:103:SER:OG	3:DP:213:ASP:OD2	2.39	0.41
3:DV:100:TYR:HA	3:DV:215:SER:O	2.21	0.41
3:DW:103:SER:HB3	3:DW:159:PRO:C	2.40	0.41
3:D1:100:TYR:HA	3:D1:215:SER:O	2.21	0.41
3:DR:100:TYR:HA	3:DR:215:SER:O	2.21	0.41
3:D0:103:SER:HB3	3:D0:159:PRO:C	2.40	0.41
3:D6:103:SER:HB2	3:D6:159:PRO:HA	1.95	0.41
1:A8:38:PHE:CD2	1:A8:68:TRP:HB2	2.56	0.41
1:AA:38:PHE:CD2	1:AA:68:TRP:HB2	2.56	0.41
1:AD:83:GLU:C	1:AD:84:LEU:HD12	2.41	0.41
1:AF:38:PHE:CD2	1:AF:68:TRP:HB2	2.56	0.41
1:AG:140:PRO:HB3	3:DI:25:LEU:HB3	41.39	0.41
1:AG:88:PHE:HE1	1:AG:205:GLY:CA	2.33	0.41
1:AG:38:PHE:CE2	1:AG:68:TRP:HB2	2.56	0.41
1:AG:83:GLU:C	1:AG:84:LEU:HD12	2.41	0.41
1:AK:83:GLU:C	1:AK:84:LEU:HD12	2.41	0.41
1:AQ:87:GLN:HA	1:AQ:153:ALA:HB2	2.02	0.41
1:AQ:83:GLU:C	1:AQ:84:LEU:HD12	2.41	0.41
1:AS:42:THR:CG2	1:AS:42:THR:O	2.69	0.41
1:AS:38:PHE:CD2	1:AS:68:TRP:HB2	2.56	0.41
1:AU:38:PHE:CE2	1:AU:68:TRP:HB2	2.56	0.41
1:BG:38:PHE:CD2	1:BG:68:TRP:HB2	2.56	0.41
1:AE:140:PRO:HB3	3:DE:25:LEU:HB3	2.03	0.41
1:AL:140:PRO:HB3	3:DN:25:LEU:HB3	41.39	0.41
1:BH:140:PRO:HB3	3:ED:25:LEU:HB3	2.03	0.41
1:A3:83:GLU:C	1:A3:84:LEU:HD12	2.41	0.41
1:A7:140:PRO:HB3	3:D8:25:LEU:HB3	2.03	0.41
1:BH:38:PHE:CE2	1:BH:68:TRP:HB2	2.56	0.41
1:AF:112:PRO:CG	3:DG:223:PRO:HD3	2.50	0.41
1:AE:112:PRO:CG	3:DH:223:PRO:HD3	148.02	0.41
1:A4:140:PRO:HB3	3:D5:25:LEU:HB3	2.03	0.41
1:A0:83:GLU:C	1:A0:84:LEU:HD12	2.41	0.41
1:A2:42:THR:CG2	1:A2:42:THR:O	2.69	0.41
1:AZ:38:PHE:CE2	1:AZ:68:TRP:HB2	2.56	0.41
1:AZ:42:THR:CG2	1:AZ:42:THR:O	2.69	0.41
1:AA:188:PRO:HG3	3:DD:176:VAL:CG1	89.64	0.41
1:AL:188:PRO:HG3	3:DM:176:VAL:CG1	2.50	0.41
1:AD:188:PRO:HG3	3:DG:176:VAL:CG1	107.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:38:PHE:CD2	1:A6:68:TRP:HB2	2.56	0.41
1:BF:112:PRO:CG	3:EC:223:PRO:HD3	2.50	0.41
1:AU:174:TRP:CD1	1:AU:184:TYR:HA	2.56	0.41
1:AC:174:TRP:CD1	1:AC:184:TYR:HA	2.56	0.41
1:AG:174:TRP:HB2	2:CG:188:LEU:CD2	2.44	0.41
1:AI:174:TRP:CD1	1:AI:184:TYR:HA	2.56	0.41
1:AM:174:TRP:CD1	1:AM:184:TYR:HA	2.56	0.41
1:AO:174:TRP:CD1	1:AO:184:TYR:HA	2.56	0.41
1:AG:174:TRP:NE1	2:CI:137:GLU:OE2	103.46	0.41
1:AI:184:TYR:CE2	2:CK:139:ALA:CB	280.18	0.41
2:CO:139:ALA:O	2:CO:140:LEU:HB2	2.21	0.41
1:A6:174:TRP:CD1	1:A6:184:TYR:HA	2.56	0.41
1:AD:174:TRP:CD1	1:AD:184:TYR:HA	2.56	0.41
1:AH:174:TRP:HB2	2:CH:188:LEU:CD2	2.44	0.41
1:AJ:174:TRP:CD1	1:AJ:184:TYR:HA	2.56	0.41
1:AN:174:TRP:CD1	1:AN:184:TYR:HA	2.56	0.41
2:CH:134:HIS:HB3	2:CH:135:THR:H	1.46	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
2:CU:55:GLY:HA2	2:CU:56:PRO:HD3	1.80	0.41
1:AE:103:TRP:CZ2	1:AF:208:TYR:CE2	122.32	0.41
1:AN:113:THR:HG22	1:AN:114:LYS:N	2.36	0.41
1:BG:48:LEU:O	1:BG:131:GLN:HG2	2.20	0.41
2:C7:56:PRO:C	2:C7:57:THR:O	2.59	0.41
2:CX:56:PRO:C	2:CX:57:THR:O	2.59	0.41
2:CX:57:THR:O	2:CX:58:LEU:CB	2.66	0.41
1:A1:113:THR:HG22	1:A1:114:LYS:N	2.36	0.41
1:A1:48:LEU:O	1:A1:131:GLN:HG2	2.20	0.41
2:C1:57:THR:O	2:C1:58:LEU:CB	2.66	0.41
2:CP:56:PRO:C	2:CP:57:THR:O	2.59	0.41
1:BH:48:LEU:O	1:BH:131:GLN:HG2	2.21	0.41
2:CT:56:PRO:C	2:CT:57:THR:O	2.59	0.41
1:A5:115:THR:HG23	1:A5:133:LEU:N	2.25	0.41
2:CZ:57:THR:O	2:CZ:58:LEU:CB	2.66	0.41
2:CP:152:TYR:HB3	2:CP:197:LEU:CD2	2.51	0.41
3:DY:53:PHE:N	3:DY:53:PHE:CD1	2.88	0.41
2:CI:152:TYR:HB3	2:CI:197:LEU:CD2	2.51	0.41
2:CN:153:GLN:HE22	3:DN:55:SER:CB	2.33	0.41
2:CV:153:GLN:HE22	3:DV:55:SER:N	2.19	0.41
3:EC:152:SER:O	3:EC:153:ALA:HB2	2.21	0.41
3:EB:152:SER:O	3:EB:153:ALA:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CT:152:TYR:HB3	2:CT:197:LEU:CD2	2.51	0.41
2:CX:153:GLN:HE22	3:EE:55:SER:CB	193.97	0.41
2:CE:153:GLN:HE22	3:DE:55:SER:CB	2.33	0.41
3:DR:53:PHE:CD1	3:DR:53:PHE:N	2.88	0.41
3:ED:152:SER:O	3:ED:153:ALA:HB2	2.21	0.41
2:CI:28:GLY:O	2:CI:168:ASN:HB2	2.21	0.41
1:AB:75:CYS:CB	1:AB:218:MET:SD	3.03	0.41
2:CB:153:GLN:HE22	3:DB:55:SER:CB	2.33	0.41
2:C1:153:GLN:HE22	3:D1:55:SER:CB	2.33	0.41
3:DO:152:SER:O	3:DO:153:ALA:HB2	2.21	0.41
2:CL:28:GLY:O	2:CL:168:ASN:HB2	2.21	0.41
2:CD:152:TYR:HB3	2:CD:197:LEU:CD2	2.51	0.41
2:CE:28:GLY:O	2:CE:168:ASN:HB2	2.21	0.41
1:BF:75:CYS:CB	1:BF:218:MET:SD	3.03	0.41
1:BF:72:LEU:O	1:BF:75:CYS:SG	2.76	0.41
1:A7:170:PHE:HD2	1:A7:222:ARG:NH1	2.17	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
1:BB:220:CYS:HA	1:BB:221:PRO:HD2	1.82	0.41
2:CN:218:ILE:HD13	2:CN:218:ILE:HG21	1.89	0.41
1:BE:184:TYR:HE2	2:CT:139:ALA:HB2	215.21	0.41
1:AA:160:TYR:OH	1:AA:167:VAL:HG23	2.21	0.41
3:DK:31:VAL:CB	4:FK:34:ILE:O	2.69	0.41
1:AL:219:TYR:CE2	3:DL:39:ARG:HD2	2.55	0.41
1:AJ:219:TYR:CE2	3:DJ:39:ARG:HD2	2.55	0.41
1:AE:168:PRO:HB3	2:CG:180:PRO:HB3	126.30	0.41
1:AA:219:TYR:CE2	3:DA:39:ARG:HD2	2.55	0.41
1:BB:174:TRP:CD1	1:BB:184:TYR:HA	2.56	0.41
1:BI:168:PRO:HB3	2:CX:180:PRO:HB3	170.01	0.41
1:BC:219:TYR:CE2	3:DR:39:ARG:HD2	134.71	0.41
1:AU:79:PHE:CE2	1:AU:160:TYR:CD2	3.08	0.41
2:CK:69:TRP:CD1	2:CK:70:PRO:N	2.89	0.41
1:A6:79:PHE:CE2	1:A6:160:TYR:CD2	3.08	0.41
2:C3:74:SER:O	2:C3:75:HIS:C	2.58	0.41
1:A1:160:TYR:OH	1:A1:167:VAL:HG23	2.21	0.41
2:C9:139:ALA:O	2:C9:140:LEU:HB2	2.21	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:AR:160:TYR:OH	1:AR:167:VAL:HG23	2.21	0.41
1:BC:160:TYR:OH	1:BC:167:VAL:HG23	2.21	0.41
2:C3:139:ALA:O	2:C3:140:LEU:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C9:74:SER:O	2:C9:75:HIS:C	2.58	0.41
2:CO:69:TRP:CZ3	2:CO:124:LEU:HD21	2.56	0.41
2:CY:69:TRP:CZ3	2:CY:124:LEU:HD21	2.56	0.41
1:AZ:168:PRO:HB3	2:C0:180:PRO:HB3	2.03	0.41
2:CQ:69:TRP:CZ3	2:CQ:124:LEU:HD21	2.56	0.41
1:A5:184:TYR:CE2	2:C6:139:ALA:CB	3.03	0.41
2:CS:69:TRP:CZ3	2:CS:124:LEU:HD21	2.56	0.41
2:CN:74:SER:O	2:CN:75:HIS:C	2.58	0.41
1:AZ:174:TRP:CD1	1:AZ:184:TYR:HA	2.56	0.41
1:AX:219:TYR:HA	3:DY:39:ARG:HA	2.02	0.41
1:AY:174:TRP:NE1	2:CZ:137:GLU:OE2	2.53	0.41
2:CB:69:TRP:CD1	2:CB:70:PRO:N	2.89	0.41
3:DQ:54:CYS:SG	3:DQ:208:VAL:HG21	2.61	0.41
3:DO:54:CYS:SG	3:DO:208:VAL:HG21	2.61	0.41
3:DZ:54:CYS:SG	3:DZ:208:VAL:HG21	2.61	0.41
1:AN:239:PHE:CD2	3:DN:226:GLN:NE2	2.87	0.41
1:A5:239:PHE:CD2	3:D6:226:GLN:NE2	2.87	0.41
2:CF:103:LEU:O	2:CF:223:ASN:ND2	2.49	0.41
2:CL:103:LEU:HD12	2:CL:223:ASN:HB2	2.02	0.41
2:CB:103:LEU:HD12	2:CB:223:ASN:HB2	2.03	0.41
1:A8:242:ASN:ND2	1:AB:108:PRO:O	214.53	0.41
1:AA:108:PRO:O	1:AB:242:ASN:ND2	2.54	0.41
1:AA:242:ASN:ND2	1:AE:108:PRO:O	2.54	0.41
1:AN:108:PRO:O	1:AO:242:ASN:ND2	2.54	0.41
1:A8:191:HIS:HB2	1:A8:192:PHE:H	1.71	0.41
1:AK:108:PRO:O	1:AL:242:ASN:ND2	2.54	0.41
2:CE:65:LYS:CB	3:DC:135:ARG:HH21	150.83	0.41
2:C8:103:LEU:HD12	2:C8:223:ASN:HB2	2.02	0.41
3:D4:115:ALA:CB	3:D4:194:THR:OG1	2.67	0.41
3:DO:115:ALA:CB	3:DO:194:THR:OG1	2.67	0.41
2:CY:166:ARG:HD3	3:DY:110:PHE:O	2.20	0.41
2:CU:166:ARG:HD3	3:DU:110:PHE:O	2.20	0.41
2:CX:166:ARG:HD3	3:DX:110:PHE:O	2.20	0.41
2:CW:23:ILE:CD1	2:CW:23:ILE:N	2.81	0.41
1:AC:6:GLU:O	2:CE:162:LEU:N	115.56	0.41
1:AM:224:ILE:HD11	3:DO:89:TYR:CE1	84.05	0.41
1:AO:224:ILE:HD11	3:DS:89:TYR:CE1	130.08	0.41
1:AF:224:ILE:HD11	3:DH:89:TYR:CE1	84.05	0.41
1:A3:224:ILE:HA	1:A3:225:PRO:HD2	1.86	0.41
1:AP:224:ILE:HD11	3:DP:89:TYR:CE1	2.55	0.41
1:AT:224:ILE:HD11	3:DU:89:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DR:47:ALA:HB2	3:DR:89:TYR:CD2	2.56	0.41
1:A0:224:ILE:HD11	3:D1:89:TYR:CE1	2.55	0.41
1:A6:6:GLU:O	2:C7:162:LEU:N	2.53	0.41
1:AM:66:LEU:HD21	1:BD:132:GLN:OE1	252.65	0.41
1:AF:132:GLN:OE1	1:AG:66:LEU:HD21	2.20	0.41
1:AV:55:HIS:O	1:AV:194:SER:HA	2.21	0.41
1:A9:55:HIS:O	1:A9:194:SER:HA	2.21	0.41
1:AM:55:HIS:O	1:AM:194:SER:HA	2.21	0.41
1:AG:24:MET:O	1:AG:25:HIS:HB2	2.21	0.41
1:A4:24:MET:O	1:A4:25:HIS:HB2	2.21	0.41
1:AZ:24:MET:O	1:AZ:25:HIS:HB2	2.21	0.41
1:AY:24:MET:O	1:AY:25:HIS:HB2	2.21	0.41
1:AG:93:THR:O	1:AG:95:SER:N	2.53	0.41
1:A7:7:ASP:O	1:A7:8:GLY:C	2.59	0.41
1:AJ:7:ASP:O	1:AJ:8:GLY:C	2.59	0.41
1:AK:7:ASP:O	1:AK:8:GLY:C	2.59	0.41
1:BA:7:ASP:O	1:BA:8:GLY:C	2.59	0.41
4:FF:32:ASN:HB3	4:FF:33:SER:H	1.58	0.41
1:A7:93:THR:O	1:A7:95:SER:N	2.53	0.41
1:BB:7:ASP:O	1:BB:8:GLY:C	2.59	0.41
1:AD:7:ASP:O	1:AD:8:GLY:C	2.59	0.41
1:AJ:93:THR:O	1:AJ:95:SER:N	2.53	0.41
2:C1:95:HIS:C	2:C1:95:HIS:CD2	2.93	0.41
4:FW:31:GLN:HA	4:FW:31:GLN:HE21	1.85	0.41
2:C0:175:MET:HG2	2:C0:175:MET:H	1.79	0.41
1:A1:92:THR:HB	1:A1:93:THR:H	1.62	0.41
4:FS:32:ASN:HB3	4:FS:33:SER:H	1.58	0.41
1:AS:20:SER:HA	1:AS:21:PRO:HD3	1.92	0.41
1:A6:7:ASP:O	1:A6:8:GLY:C	2.59	0.41
2:CI:215:VAL:HG12	2:CI:216:ALA:N	2.36	0.41
3:DN:64:VAL:HG13	3:DN:120:PHE:HE1	1.85	0.41
3:DS:120:PHE:HD2	3:DS:146:TRP:CZ2	2.38	0.41
3:ED:120:PHE:HD2	3:ED:146:TRP:CZ2	2.38	0.41
2:CH:215:VAL:HG12	2:CH:216:ALA:N	2.36	0.41
2:CW:215:VAL:HG12	2:CW:216:ALA:N	2.36	0.41
2:CM:117:SER:HB3	3:DI:192:THR:CG2	264.08	0.41
2:CM:215:VAL:HG12	2:CM:216:ALA:N	2.36	0.41
2:CJ:215:VAL:HG12	2:CJ:216:ALA:N	2.36	0.41
2:CK:215:VAL:HG12	2:CK:216:ALA:N	2.36	0.41
2:CV:215:VAL:HG12	2:CV:216:ALA:N	2.36	0.41
2:CT:215:VAL:HG12	2:CT:216:ALA:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:216:ALA:HA	2:CD:217:PRO:HD3	1.78	0.41
2:CO:215:VAL:HG12	2:CO:216:ALA:N	2.36	0.41
3:DO:64:VAL:HG13	3:DO:120:PHE:HE1	1.85	0.41
3:DP:64:VAL:HG13	3:DP:120:PHE:HE1	1.86	0.41
2:C5:216:ALA:HA	2:C5:217:PRO:HD3	1.78	0.41
2:CD:215:VAL:HG12	2:CD:216:ALA:N	2.36	0.41
2:CG:215:VAL:HG12	2:CG:216:ALA:N	2.36	0.41
3:D3:64:VAL:HG13	3:D3:120:PHE:HE1	1.86	0.41
2:C0:215:VAL:HG12	2:C0:216:ALA:N	2.36	0.41
3:DL:64:VAL:HG13	3:DL:120:PHE:HE1	1.86	0.41
2:C3:117:SER:HB3	3:DU:192:THR:CG2	2.47	0.41
3:DU:120:PHE:HD2	3:DU:146:TRP:CZ2	2.38	0.41
2:CE:215:VAL:HG12	2:CE:216:ALA:N	2.36	0.41
3:EC:64:VAL:HG13	3:EC:120:PHE:HE1	1.86	0.41
3:DA:100:TYR:HA	3:DA:215:SER:O	2.21	0.41
3:DA:160:TYR:C	3:DA:160:TYR:CD1	2.94	0.41
3:DE:103:SER:OG	3:DE:213:ASP:OD2	2.39	0.41
3:DF:160:TYR:C	3:DF:160:TYR:CD1	2.94	0.41
3:DH:160:TYR:C	3:DH:160:TYR:CD1	2.94	0.41
3:DI:103:SER:OG	3:DI:213:ASP:OD2	2.39	0.41
3:DJ:100:TYR:HA	3:DJ:215:SER:O	2.21	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:DN:100:TYR:HA	3:DN:215:SER:O	2.21	0.41
3:DS:160:TYR:C	3:DS:160:TYR:CD1	2.94	0.41
3:D9:100:TYR:HA	3:D9:215:SER:O	2.21	0.41
3:DB:100:TYR:HA	3:DB:215:SER:O	2.21	0.41
3:DK:160:TYR:C	3:DK:160:TYR:CD1	2.94	0.41
3:DO:103:SER:OG	3:DO:213:ASP:OD2	2.39	0.41
3:DO:100:TYR:HA	3:DO:215:SER:O	2.21	0.41
3:DP:100:TYR:HA	3:DP:215:SER:O	2.21	0.41
3:DT:103:SER:OG	3:DT:213:ASP:OD2	2.39	0.41
3:DV:103:SER:OG	3:DV:213:ASP:OD2	2.39	0.41
3:EC:103:SER:OG	3:EC:213:ASP:OD2	2.39	0.41
3:EE:103:SER:OG	3:EE:213:ASP:OD2	2.39	0.41
3:DX:103:SER:HB3	3:DX:159:PRO:CA	2.35	0.41
3:EE:100:TYR:HA	3:EE:215:SER:O	2.21	0.41
3:DW:100:TYR:HA	3:DW:215:SER:O	2.21	0.41
3:D1:103:SER:HB3	3:D1:159:PRO:C	2.40	0.41
2:CQ:49:ASP:HA	2:CQ:50:PRO:HD2	1.80	0.41
3:DR:103:SER:OG	3:DR:213:ASP:OD2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D2:100:TYR:HA	3:D2:215:SER:O	2.21	0.41
1:A8:38:PHE:CE2	1:A8:68:TRP:HB2	2.56	0.41
1:A9:132:GLN:OE1	1:AN:66:LEU:HD21	153.95	0.41
1:A9:40:VAL:HG13	1:A9:211:TYR:HD1	1.86	0.41
1:AA:101:PHE:O	1:AA:199:SER:OG	2.33	0.41
1:AA:143:VAL:H	3:DD:14:PHE:CB	32.83	0.41
1:AA:88:PHE:HE1	1:AA:205:GLY:CA	2.33	0.41
1:AA:38:PHE:CE2	1:AA:68:TRP:HB2	2.56	0.41
1:AB:38:PHE:CE2	1:AB:68:TRP:HB2	2.56	0.41
1:AE:38:PHE:CD2	1:AE:68:TRP:HB2	2.56	0.41
1:AF:139:SER:HA	1:AF:140:PRO:HD3	1.62	0.41
1:AF:38:PHE:CE2	1:AF:68:TRP:HB2	2.56	0.41
1:AH:42:THR:CG2	1:AH:42:THR:O	2.69	0.41
1:AK:82:LEU:HG	1:AK:83:GLU:H	1.86	0.41
1:AL:88:PHE:CA	1:AL:207:CYS:HA	2.48	0.41
1:AN:82:LEU:HG	1:AN:83:GLU:H	1.86	0.41
1:AT:38:PHE:CD2	1:AT:68:TRP:HB2	2.56	0.41
1:AU:83:GLU:C	1:AU:84:LEU:HD12	2.41	0.41
1:AW:42:THR:O	1:AW:42:THR:CG2	2.69	0.41
1:AW:38:PHE:CD2	1:AW:68:TRP:HB2	2.56	0.41
1:AX:83:GLU:C	1:AX:84:LEU:HD12	2.41	0.41
1:BA:87:GLN:HA	1:BA:153:ALA:HB2	2.02	0.41
1:BB:42:THR:CG2	1:BB:42:THR:O	2.69	0.41
1:BC:42:THR:CG2	1:BC:42:THR:O	2.69	0.41
1:A8:140:PRO:HB3	3:D9:25:LEU:HB3	2.03	0.41
3:DE:13:SER:O	3:DF:9:PRO:HD3	122.87	0.41
1:AF:140:PRO:HB3	3:DF:25:LEU:HB3	2.03	0.41
3:DV:13:SER:O	3:DW:9:PRO:HD3	2.20	0.41
3:DS:27:PRO:CB	4:FS:30:TYR:HA	2.50	0.41
1:AA:82:LEU:HG	1:AA:83:GLU:H	1.86	0.41
1:AB:38:PHE:CD2	1:AB:68:TRP:HB2	2.56	0.41
1:AB:42:THR:CG2	1:AB:42:THR:O	2.69	0.41
1:AC:83:GLU:C	1:AC:84:LEU:HD12	2.41	0.41
1:AD:38:PHE:CE2	1:AD:68:TRP:HB2	2.56	0.41
1:AE:42:THR:CG2	1:AE:42:THR:O	2.69	0.41
1:AF:143:VAL:H	3:DG:14:PHE:CB	2.28	0.41
1:AG:38:PHE:CD2	1:AG:68:TRP:HB2	2.56	0.41
1:AG:82:LEU:HG	1:AG:83:GLU:H	1.86	0.41
1:AJ:132:GLN:OE1	1:AK:66:LEU:HD21	282.38	0.41
1:AK:87:GLN:HA	1:AK:153:ALA:HB2	2.02	0.41
1:AK:40:VAL:HG13	1:AK:211:TYR:HD1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:82:LEU:HG	1:AM:83:GLU:H	1.86	0.41
1:AO:40:VAL:HG13	1:AO:211:TYR:HD1	1.86	0.41
1:AO:38:PHE:CD2	1:AO:68:TRP:HB2	2.56	0.41
1:AP:199:SER:C	1:AP:201:ALA:H	2.24	0.41
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:AQ:42:THR:CG2	1:AQ:42:THR:O	2.69	0.41
1:AQ:38:PHE:CD2	1:AQ:68:TRP:HB2	2.56	0.41
1:AR:38:PHE:CD2	1:AR:68:TRP:HB2	2.56	0.41
1:AR:83:GLU:C	1:AR:84:LEU:HD12	2.41	0.41
1:AT:41:GLU:OE2	1:AT:211:TYR:OH	2.39	0.41
1:AW:41:GLU:OE2	1:AW:211:TYR:OH	2.39	0.41
1:AX:38:PHE:CD2	1:AX:68:TRP:HB2	2.56	0.41
1:BA:83:GLU:C	1:BA:84:LEU:HD12	2.41	0.41
1:BC:121:LEU:HD21	1:BD:206:GLY:CA	2.47	0.41
1:BC:101:PHE:CD2	1:BC:143:VAL:HG11	2.44	0.41
1:BC:38:PHE:CD2	1:BC:68:TRP:HB2	2.56	0.41
1:BE:88:PHE:CA	1:BE:207:CYS:HA	2.48	0.41
1:BE:42:THR:O	1:BE:42:THR:CG2	2.69	0.41
1:BE:38:PHE:CD2	1:BE:68:TRP:HB2	2.56	0.41
1:A9:140:PRO:HB3	3:DA:25:LEU:HB3	235.68	0.41
3:DP:9:PRO:HD3	3:DT:13:SER:O	2.20	0.41
3:DU:27:PRO:CB	4:FU:30:TYR:HA	2.50	0.41
1:A7:38:PHE:CE2	1:A7:68:TRP:HB2	2.56	0.41
3:D4:9:PRO:HD3	3:D8:13:SER:O	2.20	0.41
1:A3:87:GLN:HA	1:A3:153:ALA:HB2	2.02	0.41
1:A3:38:PHE:CD2	1:A3:68:TRP:HB2	2.56	0.41
1:A7:88:PHE:CA	1:A7:207:CYS:HA	2.48	0.41
1:AV:38:PHE:CE2	1:AV:68:TRP:HB2	2.56	0.41
1:BE:112:PRO:CG	3:EB:223:PRO:HD3	2.50	0.41
1:AS:112:PRO:CG	3:DP:223:PRO:HD3	2.50	0.41
1:AB:112:PRO:CG	3:D9:223:PRO:HD3	213.41	0.41
1:A1:101:PHE:O	1:A1:199:SER:OG	2.33	0.41
1:A1:87:GLN:HA	1:A1:153:ALA:HB2	2.02	0.41
1:A1:140:PRO:HB3	3:D2:25:LEU:HB3	2.03	0.41
1:A0:199:SER:C	1:A0:201:ALA:H	2.25	0.41
1:A0:38:PHE:CD2	1:A0:68:TRP:HB2	2.56	0.41
1:A1:199:SER:C	1:A1:201:ALA:H	2.24	0.41
1:A1:38:PHE:CE2	1:A1:68:TRP:HB2	2.56	0.41
1:AY:38:PHE:CD2	1:AY:68:TRP:HB2	2.56	0.41
1:AU:112:PRO:CG	3:DW:223:PRO:HD3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:83:GLU:C	1:AZ:84:LEU:HD12	2.41	0.41
1:A2:140:PRO:HB3	3:D3:25:LEU:HB3	2.03	0.41
1:BC:112:PRO:CG	3:DS:223:PRO:HD3	161.42	0.41
1:A6:188:PRO:HG3	3:D8:176:VAL:CG1	2.50	0.41
1:BH:175:GLY:N	1:BH:183:THR:O	2.52	0.41
1:AN:175:GLY:O	3:DO:176:VAL:HG12	2.21	0.41
1:BD:175:GLY:O	3:DO:176:VAL:HG12	220.87	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:AL:175:GLY:O	3:DM:176:VAL:HG12	2.21	0.41
1:AI:175:GLY:O	3:DJ:176:VAL:HG12	2.21	0.41
1:AM:175:GLY:N	1:AM:183:THR:O	2.53	0.41
1:AH:175:GLY:N	1:AH:183:THR:O	2.53	0.41
1:A6:38:PHE:CE2	1:A6:68:TRP:HB2	2.56	0.41
1:A6:42:THR:CG2	1:A6:42:THR:O	2.69	0.41
3:D8:8:VAL:CG1	3:D8:9:PRO:HD2	2.40	0.41
1:AX:112:PRO:CG	3:DU:223:PRO:HD3	2.50	0.41
1:BF:175:GLY:O	3:EC:176:VAL:HG12	2.21	0.41
1:A1:175:GLY:N	1:A1:183:THR:O	2.52	0.41
1:AW:175:GLY:O	3:DY:176:VAL:HG12	2.21	0.41
1:BE:188:PRO:HG3	3:EB:176:VAL:CG1	2.50	0.41
1:AM:184:TYR:CE2	2:CM:139:ALA:CB	3.03	0.41
1:AO:172:ASN:HB2	2:CS:132:TYR:O	111.65	0.41
1:AK:174:TRP:CD1	1:AK:184:TYR:HA	2.56	0.41
2:CG:139:ALA:O	2:CG:140:LEU:HB2	2.21	0.41
1:AJ:184:TYR:HE2	2:CJ:139:ALA:HB2	1.86	0.41
1:AN:174:TRP:NE1	2:CB:137:GLU:OE2	215.64	0.41
1:AF:184:TYR:HE2	2:CH:139:ALA:HB3	105.63	0.41
1:AB:174:TRP:HB2	2:CB:188:LEU:CD2	2.44	0.41
2:CB:139:ALA:O	2:CB:140:LEU:HB2	2.21	0.41
1:A3:184:TYR:HE2	2:C4:139:ALA:HB3	1.84	0.41
1:AG:113:THR:HG22	1:AG:114:LYS:N	2.36	0.41
1:AL:103:TRP:CZ2	1:AM:208:TYR:CE2	3.06	0.41
2:CN:55:GLY:HA2	2:CN:56:PRO:HD3	1.80	0.41
1:A3:113:THR:HG22	1:A3:114:LYS:N	2.36	0.41
1:AC:113:THR:HG22	1:AC:114:LYS:N	2.36	0.41
1:BI:172:ASN:OD1	1:BI:184:TYR:OH	2.27	0.41
1:A6:113:THR:HG22	1:A6:114:LYS:N	2.36	0.41
2:CJ:58:LEU:HB3	2:CJ:59:SER:H	1.65	0.41
1:AA:113:THR:HG22	1:AA:114:LYS:N	2.36	0.41
2:CV:56:PRO:C	2:CV:57:THR:O	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:55:GLY:HA2	2:CI:56:PRO:HD3	1.80	0.41
1:A8:115:THR:HG23	1:A8:133:LEU:N	2.25	0.41
1:A9:48:LEU:HA	1:A9:198:THR:OG1	2.20	0.41
1:A7:113:THR:HG22	1:A7:114:LYS:N	2.36	0.41
1:A7:49:THR:CG2	1:A7:50:GLY:N	2.83	0.41
1:AF:113:THR:HG22	1:AF:114:LYS:N	2.36	0.41
1:BB:113:THR:HG22	1:BB:114:LYS:N	2.36	0.41
2:C0:58:LEU:HB3	2:C0:59:SER:H	1.65	0.41
1:BA:113:THR:HG22	1:BA:114:LYS:N	2.36	0.41
1:A4:48:LEU:O	1:A4:131:GLN:HG2	2.20	0.41
1:AV:113:THR:HG22	1:AV:114:LYS:N	2.36	0.41
1:AK:113:THR:HG22	1:AK:114:LYS:N	2.36	0.41
1:BC:113:THR:HG22	1:BC:114:LYS:N	2.36	0.41
2:CQ:153:GLN:HE22	3:DQ:55:SER:N	2.19	0.41
2:CY:153:GLN:HE22	3:DY:55:SER:CB	2.33	0.41
2:CM:152:TYR:HB3	2:CM:197:LEU:CD2	2.51	0.41
3:DM:152:SER:O	3:DM:153:ALA:HB2	2.20	0.41
2:CY:152:TYR:HB3	2:CY:197:LEU:CD2	2.51	0.41
2:CV:152:TYR:HB3	2:CV:197:LEU:CD2	2.51	0.41
2:CF:152:TYR:HB3	2:CF:197:LEU:CD2	2.51	0.41
3:DF:53:PHE:N	3:DF:53:PHE:CD1	2.88	0.41
2:CU:153:GLN:HE22	3:EB:55:SER:CB	249.38	0.41
2:CJ:152:TYR:HB3	2:CJ:197:LEU:CD2	2.51	0.41
3:DT:152:SER:O	3:DT:153:ALA:HB2	2.21	0.41
3:EA:53:PHE:N	3:EA:53:PHE:CD1	2.88	0.41
2:CX:153:GLN:HE22	3:EE:55:SER:N	192.94	0.41
2:C4:28:GLY:O	2:C4:168:ASN:HB2	2.21	0.41
2:C3:153:GLN:NE2	3:D3:53:PHE:O	2.50	0.41
3:DE:152:SER:O	3:DE:153:ALA:HB2	2.21	0.41
2:C9:152:TYR:HB3	2:C9:197:LEU:CD2	2.51	0.41
2:CA:149:ALA:O	2:CA:152:TYR:CD2	2.74	0.41
2:CW:28:GLY:O	2:CW:168:ASN:HB2	2.21	0.41
2:CK:28:GLY:O	2:CK:168:ASN:HB2	2.21	0.41
2:CB:152:TYR:HB3	2:CB:197:LEU:CD2	2.51	0.41
2:CO:149:ALA:O	2:CO:152:TYR:CD2	2.74	0.41
2:CB:28:GLY:O	2:CB:168:ASN:HB2	2.21	0.41
3:DD:152:SER:O	3:DD:153:ALA:HB2	2.21	0.41
2:C7:28:GLY:O	2:C7:168:ASN:HB2	2.21	0.41
1:AV:220:CYS:HA	1:AV:221:PRO:HD2	1.82	0.41
2:C8:153:GLN:HE22	3:D8:55:SER:N	2.19	0.41
3:D2:152:SER:O	3:D2:153:ALA:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:30:VAL:HG13	1:A2:218:MET:CE	2.49	0.41
2:C1:88:LEU:C	2:C1:90:LYS:H	2.23	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
2:CW:139:ALA:O	2:CW:140:LEU:HB2	2.21	0.41
1:BH:184:TYR:CE2	2:CW:139:ALA:CB	238.26	0.41
2:CT:139:ALA:O	2:CT:140:LEU:HB2	2.21	0.41
1:AI:160:TYR:OH	1:AI:167:VAL:HG23	2.21	0.41
1:AO:160:TYR:OH	1:AO:167:VAL:HG23	2.21	0.41
3:DA:31:VAL:CB	4:FA:34:ILE:O	2.69	0.41
3:DE:31:VAL:CB	4:FE:34:ILE:O	2.69	0.41
3:DG:31:VAL:CB	4:FG:34:ILE:O	2.69	0.41
3:DM:31:VAL:CB	4:FM:34:ILE:O	2.69	0.41
1:AB:160:TYR:OH	1:AB:167:VAL:HG23	2.21	0.41
1:AD:160:TYR:OH	1:AD:167:VAL:HG23	2.21	0.41
3:DT:31:VAL:CB	4:FT:34:ILE:O	2.69	0.41
1:AF:160:TYR:OH	1:AF:167:VAL:HG23	2.21	0.41
3:DN:31:VAL:CB	4:FN:34:ILE:O	2.69	0.41
2:C8:180:PRO:HD2	2:C8:189:HIS:HE1	1.76	0.41
1:AH:168:PRO:HB3	2:CH:180:PRO:HB3	2.03	0.41
1:BE:160:TYR:OH	1:BE:167:VAL:HG23	2.21	0.41
1:AO:168:PRO:HB3	2:CS:180:PRO:HB3	100.34	0.41
1:A9:219:TYR:CE2	3:DA:39:ARG:HD2	218.12	0.41
1:AA:219:TYR:CE2	3:DC:39:ARG:HD2	70.31	0.41
1:AQ:174:TRP:CD1	1:AQ:184:TYR:HA	2.56	0.41
3:EB:31:VAL:CB	4:FU:34:ILE:O	218.28	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
1:AO:219:TYR:CE2	3:DS:39:ARG:HD2	101.08	0.41
1:BA:160:TYR:OH	1:BA:167:VAL:HG23	2.21	0.41
2:CG:69:TRP:CZ3	2:CG:124:LEU:HD21	2.56	0.41
2:CA:69:TRP:CZ3	2:CA:124:LEU:HD21	2.56	0.41
2:CF:69:TRP:CZ3	2:CF:124:LEU:HD21	2.56	0.41
1:A0:160:TYR:OH	1:A0:167:VAL:HG23	2.21	0.41
3:EE:31:VAL:CB	4:FX:34:ILE:O	168.46	0.41
3:D6:31:VAL:CB	4:F6:34:ILE:O	2.69	0.41
1:A0:184:TYR:CE2	2:C1:139:ALA:CB	3.03	0.41
1:A1:174:TRP:CD1	1:A1:184:TYR:HA	2.56	0.41
1:AV:168:PRO:HB3	2:CW:180:PRO:HB3	2.03	0.41
2:CR:69:TRP:CD1	2:CR:70:PRO:N	2.89	0.41
2:C1:74:SER:O	2:C1:75:HIS:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:69:TRP:HZ2	2:C3:198:ILE:HG23	1.85	0.41
3:D2:31:VAL:CB	4:F2:34:ILE:O	2.69	0.41
3:D9:31:VAL:CB	4:F9:34:ILE:O	2.69	0.41
2:C3:88:LEU:C	2:C3:90:LYS:H	2.24	0.41
3:DR:31:VAL:CB	4:FR:34:ILE:O	2.69	0.41
2:CT:69:TRP:CZ3	2:CT:124:LEU:HD21	2.56	0.41
2:CE:69:TRP:CZ3	2:CE:124:LEU:HD21	2.56	0.41
2:CW:69:TRP:CD1	2:CW:70:PRO:N	2.89	0.41
1:BF:174:TRP:NE1	2:CU:137:GLU:OE2	269.24	0.41
2:CU:139:ALA:O	2:CU:140:LEU:HB2	2.21	0.41
2:CR:139:ALA:O	2:CR:140:LEU:HB2	2.21	0.41
2:CX:69:TRP:CZ3	2:CX:124:LEU:HD21	2.56	0.41
2:C0:139:ALA:O	2:C0:140:LEU:HB2	2.21	0.41
1:AX:219:TYR:CE2	3:DY:39:ARG:HD2	2.55	0.41
2:CY:135:THR:O	2:CY:137:GLU:N	2.53	0.41
1:BB:62:SER:HB2	1:BB:73:ASN:ND2	2.27	0.41
3:DS:54:CYS:SG	3:DS:208:VAL:HG21	2.61	0.41
3:DN:54:CYS:SG	3:DN:208:VAL:HG21	2.61	0.41
3:DK:54:CYS:SG	3:DK:208:VAL:HG21	2.61	0.41
3:DI:54:CYS:SG	3:DI:208:VAL:HG21	2.61	0.41
3:DR:54:CYS:SG	3:DR:208:VAL:HG21	2.61	0.41
3:D7:54:CYS:SG	3:D7:208:VAL:HG21	2.61	0.41
1:AA:239:PHE:CD2	3:DA:226:GLN:NE2	2.87	0.41
1:AC:239:PHE:CD2	3:DE:226:GLN:NE2	81.58	0.41
1:AM:239:PHE:CD2	3:DO:226:GLN:NE2	81.58	0.41
3:DY:54:CYS:SG	3:DY:208:VAL:HG21	2.61	0.41
1:BI:239:PHE:CD2	3:EE:226:GLN:NE2	2.87	0.41
2:CE:103:LEU:HD12	2:CE:223:ASN:HB2	2.02	0.41
2:CJ:103:LEU:HD21	3:DK:163:PRO:HD3	256.39	0.41
2:CT:103:LEU:HD21	3:EB:163:PRO:HD3	204.20	0.41
1:A7:43:LEU:CD2	1:A7:43:LEU:N	2.74	0.41
1:A7:43:LEU:HD23	1:A7:43:LEU:H	1.81	0.41
2:CC:103:LEU:HD21	3:DD:163:PRO:HD3	2.01	0.41
1:BC:108:PRO:O	1:BD:242:ASN:ND2	2.54	0.41
1:AC:242:ASN:ND2	1:AG:108:PRO:O	191.80	0.41
1:AL:108:PRO:O	1:AM:242:ASN:ND2	2.54	0.41
1:AH:242:ASN:ND2	1:AL:108:PRO:O	266.58	0.41
1:AA:242:ASN:ND2	1:AN:108:PRO:O	249.02	0.41
1:AN:110:GLY:H	1:AO:242:ASN:ND2	2.12	0.41
1:AU:191:HIS:HB2	1:AU:192:PHE:H	1.71	0.41
1:AE:108:PRO:O	1:AF:242:ASN:ND2	78.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:108:PRO:O	1:AK:242:ASN:ND2	268.08	0.41
1:AO:241:THR:CG2	1:AR:110:GLY:O	156.97	0.41
1:AU:108:PRO:O	1:AV:242:ASN:ND2	2.54	0.41
1:AC:108:PRO:O	1:AD:242:ASN:ND2	2.54	0.41
1:AC:191:HIS:HB2	1:AC:192:PHE:H	1.71	0.41
1:BG:108:PRO:O	1:BH:242:ASN:ND2	2.54	0.41
1:A2:108:PRO:O	1:AY:242:ASN:ND2	2.54	0.41
1:BH:191:HIS:HB2	1:BH:192:PHE:H	1.71	0.41
1:AQ:108:PRO:O	1:AR:242:ASN:ND2	2.54	0.41
1:A4:108:PRO:O	1:A5:242:ASN:ND2	2.54	0.41
1:AZ:191:HIS:HB2	1:AZ:192:PHE:H	1.71	0.41
1:A5:108:PRO:O	1:A6:242:ASN:ND2	2.54	0.41
2:CG:65:LYS:CB	3:D3:135:ARG:HH21	264.81	0.41
3:DP:115:ALA:CB	3:DP:194:THR:OG1	2.67	0.41
3:DL:115:ALA:CB	3:DL:194:THR:OG1	2.67	0.41
3:EE:115:ALA:CB	3:EE:194:THR:OG1	2.67	0.41
2:CQ:23:ILE:CD1	2:CQ:23:ILE:N	2.81	0.41
2:C9:23:ILE:CD1	2:C9:23:ILE:N	2.81	0.41
1:AA:6:GLU:O	2:CA:162:LEU:N	2.53	0.41
1:AE:6:GLU:O	2:CE:162:LEU:N	2.53	0.41
1:AK:6:GLU:O	2:CM:162:LEU:N	115.56	0.41
3:DK:47:ALA:HB2	3:DK:89:TYR:CD2	2.56	0.41
3:DO:47:ALA:HB2	3:DO:89:TYR:CD2	2.56	0.41
1:AR:6:GLU:O	2:CR:162:LEU:N	2.53	0.41
1:BC:6:GLU:O	2:CR:162:LEU:N	147.33	0.41
1:AL:6:GLU:O	2:CN:162:LEU:N	115.56	0.41
1:AN:6:GLU:O	2:CN:162:LEU:N	2.53	0.41
3:DB:47:ALA:HB2	3:DB:89:TYR:CD2	2.56	0.41
3:DJ:47:ALA:HB2	3:DJ:89:TYR:CD2	2.56	0.41
1:AD:6:GLU:O	2:CF:162:LEU:N	99.57	0.41
1:AH:6:GLU:O	2:CH:162:LEU:N	2.53	0.41
1:AB:224:ILE:HD11	3:DB:89:TYR:CE1	2.55	0.41
1:AH:224:ILE:HD11	3:DH:89:TYR:CE1	2.55	0.41
3:DF:47:ALA:HB2	3:DF:89:TYR:CD2	2.56	0.41
3:DL:47:ALA:HB2	3:DL:89:TYR:CD2	2.56	0.41
1:AV:224:ILE:HD11	3:DW:89:TYR:CE1	2.55	0.41
1:BI:224:ILE:CD1	3:EE:89:TYR:CE1	3.04	0.41
3:DQ:47:ALA:HB2	3:DQ:89:TYR:CD2	2.56	0.41
3:D6:47:ALA:HB2	3:D6:89:TYR:CD2	2.56	0.41
3:D9:47:ALA:HB2	3:D9:89:TYR:CD2	2.56	0.41
1:A1:224:ILE:CD1	3:D2:89:TYR:CE1	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D7:47:ALA:HB2	3:D7:89:TYR:CD2	2.56	0.41
1:AY:224:ILE:HD11	3:DZ:89:TYR:CE1	2.55	0.41
1:A3:6:GLU:O	2:C4:162:LEU:N	2.53	0.41
1:AQ:176:ALA:C	1:AQ:178:THR:H	2.22	0.41
1:A0:66:LEU:HD21	1:AZ:132:GLN:OE1	2.20	0.41
1:AE:55:HIS:O	1:AE:194:SER:HA	2.21	0.41
1:BI:55:HIS:O	1:BI:194:SER:HA	2.21	0.41
1:AA:55:HIS:O	1:AA:194:SER:HA	2.21	0.41
1:AV:107:PHE:CE1	1:AV:196:LEU:HB2	2.55	0.41
1:A4:55:HIS:O	1:A4:194:SER:HA	2.21	0.41
1:AB:55:HIS:O	1:AB:194:SER:HA	2.21	0.41
1:AJ:55:HIS:O	1:AJ:194:SER:HA	2.21	0.41
1:AK:55:HIS:O	1:AK:194:SER:HA	2.21	0.41
1:AG:55:HIS:O	1:AG:194:SER:HA	2.21	0.41
1:BE:107:PHE:CE1	1:BE:196:LEU:HB2	2.55	0.41
1:BA:107:PHE:CE1	1:BA:196:LEU:HB2	2.55	0.41
1:AD:55:HIS:O	1:AD:194:SER:HA	2.21	0.41
1:AN:55:HIS:O	1:AN:194:SER:HA	2.21	0.41
1:AI:55:HIS:O	1:AI:194:SER:HA	2.21	0.41
1:A1:55:HIS:O	1:A1:194:SER:HA	2.21	0.41
1:AS:55:HIS:O	1:AS:194:SER:HA	2.21	0.41
1:A3:107:PHE:CE1	1:A3:196:LEU:HB2	2.55	0.41
3:DM:79:SER:O	3:DM:81:SER:N	2.51	0.41
3:D0:79:SER:O	3:D0:81:SER:N	2.51	0.41
3:ED:79:SER:O	3:ED:81:SER:N	2.51	0.41
3:DU:84:GLU:H	3:DU:84:GLU:CD	2.21	0.41
1:AC:24:MET:O	1:AC:25:HIS:HB2	2.21	0.41
1:A6:24:MET:O	1:A6:25:HIS:HB2	2.21	0.41
1:AL:24:MET:O	1:AL:25:HIS:HB2	2.21	0.41
1:AI:24:MET:O	1:AI:25:HIS:HB2	2.21	0.41
1:AX:24:MET:O	1:AX:25:HIS:HB2	2.21	0.41
1:BC:24:MET:O	1:BC:25:HIS:HB2	2.21	0.41
1:AR:24:MET:O	1:AR:25:HIS:HB2	2.21	0.41
1:AN:93:THR:O	1:AN:95:SER:N	2.53	0.41
1:BI:93:THR:O	1:BI:95:SER:N	2.53	0.41
4:FV:32:ASN:HB3	4:FV:33:SER:H	1.58	0.41
1:AJ:225:PRO:HA	1:AJ:226:PRO:HD2	1.88	0.41
1:AN:7:ASP:O	1:AN:8:GLY:C	2.59	0.41
1:AX:7:ASP:O	1:AX:8:GLY:C	2.59	0.41
1:BE:7:ASP:O	1:BE:8:GLY:C	2.59	0.41
1:AN:20:SER:HA	1:AN:21:PRO:HD3	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:7:ASP:O	1:A4:8:GLY:C	2.59	0.41
1:A8:20:SER:HA	1:A8:21:PRO:HD3	1.92	0.41
1:AH:7:ASP:O	1:AH:8:GLY:C	2.59	0.41
2:C8:215:VAL:HG12	2:C8:216:ALA:N	2.36	0.41
2:CC:215:VAL:HG12	2:CC:216:ALA:N	2.36	0.41
3:DD:64:VAL:HG13	3:DD:120:PHE:HE1	1.86	0.41
3:EE:120:PHE:HD2	3:EE:146:TRP:CZ2	2.38	0.41
2:CL:215:VAL:HG12	2:CL:216:ALA:N	2.36	0.41
2:CU:215:VAL:HG12	2:CU:216:ALA:N	2.36	0.41
2:CX:215:VAL:HG12	2:CX:216:ALA:N	2.36	0.41
2:C0:117:SER:HB3	3:DQ:192:THR:CG2	2.48	0.41
3:DE:64:VAL:HG13	3:DE:120:PHE:HE1	1.86	0.41
3:DZ:64:VAL:HG13	3:DZ:120:PHE:HE1	1.85	0.41
3:DU:64:VAL:HG13	3:DU:120:PHE:HE1	1.85	0.41
3:DE:160:TYR:CD1	3:DE:160:TYR:C	2.94	0.41
3:DI:103:SER:HB3	3:DI:159:PRO:CA	2.35	0.41
3:DJ:103:SER:OG	3:DJ:213:ASP:OD2	2.39	0.41
3:DM:100:TYR:HA	3:DM:215:SER:O	2.21	0.41
3:DS:103:SER:OG	3:DS:213:ASP:OD2	2.39	0.41
3:DW:103:SER:OG	3:DW:213:ASP:OD2	2.39	0.41
3:ED:103:SER:HB3	3:ED:159:PRO:CA	2.35	0.41
3:D0:103:SER:OG	3:D0:213:ASP:OD2	2.39	0.41
1:AE:132:GLN:OE1	1:AF:66:LEU:HD21	104.11	0.41
1:AE:82:LEU:HG	1:AE:83:GLU:H	1.86	0.41
1:AF:82:LEU:HG	1:AF:83:GLU:H	1.86	0.41
1:AH:38:PHE:CE2	1:AH:68:TRP:HB2	2.56	0.41
1:AI:83:GLU:C	1:AI:84:LEU:HD12	2.41	0.41
1:AJ:137:GLY:HA2	1:AK:38:PHE:CD1	263.40	0.41
1:AJ:38:PHE:CE2	1:AJ:68:TRP:HB2	2.56	0.41
1:AK:42:THR:CG2	1:AK:42:THR:O	2.69	0.41
1:AM:140:PRO:HB3	3:DO:25:LEU:HB3	41.39	0.41
1:AM:40:VAL:HG13	1:AM:211:TYR:HD1	1.86	0.41
1:AN:38:PHE:CD2	1:AN:68:TRP:HB2	2.56	0.41
1:AN:38:PHE:CE2	1:AN:68:TRP:HB2	2.56	0.41
1:AO:83:GLU:C	1:AO:84:LEU:HD12	2.41	0.41
1:AP:41:GLU:OE2	1:AP:211:TYR:OH	2.39	0.41
1:AQ:82:LEU:HG	1:AQ:83:GLU:H	1.86	0.41
1:AS:199:SER:C	1:AS:201:ALA:H	2.24	0.41
1:AW:139:SER:HA	1:AW:140:PRO:HD3	1.62	0.41
1:BA:38:PHE:CE2	1:BA:68:TRP:HB2	2.56	0.41
1:BB:38:PHE:CE2	1:BB:68:TRP:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:41:GLU:OE2	1:BD:211:TYR:OH	2.39	0.41
1:BG:41:GLU:OE2	1:BG:211:TYR:OH	2.39	0.41
1:BI:40:VAL:HG13	1:BI:211:TYR:HD1	1.86	0.41
1:BI:38:PHE:CE2	1:BI:68:TRP:HB2	2.56	0.41
1:BI:82:LEU:HG	1:BI:83:GLU:H	1.86	0.41
1:AD:140:PRO:HB3	3:DD:25:LEU:HB3	2.03	0.41
1:AO:140:PRO:HB3	3:DO:25:LEU:HB3	2.03	0.41
3:DI:27:PRO:CB	4:FI:30:TYR:HA	2.50	0.41
1:A3:42:THR:CG2	1:A3:42:THR:O	2.69	0.41
1:A6:140:PRO:HB3	3:D7:25:LEU:HB3	2.03	0.41
1:A5:38:PHE:CE2	1:A5:68:TRP:HB2	2.56	0.41
1:A0:38:PHE:CE2	1:A0:68:TRP:HB2	2.56	0.41
3:D2:27:PRO:CB	4:F2:30:TYR:HA	2.51	0.41
3:D3:27:PRO:CB	4:F3:30:TYR:HA	2.51	0.41
1:AY:40:VAL:HG13	1:AY:211:TYR:HD1	1.86	0.41
3:DY:223:PRO:HB2	3:DY:224:ASP:H	1.71	0.41
1:BH:175:GLY:O	3:EE:176:VAL:HG12	2.21	0.41
1:AI:175:GLY:O	3:DL:176:VAL:HG12	272.25	0.41
1:AO:164:TRP:HE1	1:AO:187:LEU:CD1	2.28	0.41
1:BA:175:GLY:O	3:DQ:176:VAL:HG12	107.43	0.41
2:CI:208:THR:O	2:CI:209:VAL:CG2	2.69	0.41
2:CD:208:THR:O	2:CD:209:VAL:CG2	2.69	0.41
1:AA:184:TYR:CE2	2:CA:139:ALA:CB	3.03	0.41
1:BD:174:TRP:CD1	1:BD:184:TYR:HA	2.56	0.41
1:A9:174:TRP:NE1	2:CA:137:GLU:OE2	269.24	0.41
1:AA:184:TYR:CE2	2:CC:139:ALA:CB	104.74	0.41
1:AG:184:TYR:HE2	2:CG:139:ALA:HB2	1.86	0.41
1:AI:184:TYR:CE2	2:CI:139:ALA:CB	3.03	0.41
2:CS:139:ALA:O	2:CS:140:LEU:HB2	2.21	0.41
1:AH:174:TRP:CD1	1:AH:184:TYR:HA	2.56	0.41
1:AF:174:TRP:NE1	2:CH:137:GLU:OE2	103.46	0.41
1:AJ:184:TYR:CE2	2:CJ:139:ALA:CB	3.03	0.41
1:A7:184:TYR:CE2	2:C8:139:ALA:CB	3.03	0.41
1:BE:113:THR:HG22	1:BE:114:LYS:N	2.36	0.41
1:BE:48:LEU:O	1:BE:131:GLN:HG2	2.20	0.41
1:AC:48:LEU:O	1:AC:131:GLN:HG2	2.21	0.41
1:AR:49:THR:CG2	1:AR:50:GLY:N	2.83	0.41
1:A1:48:LEU:HA	1:A1:198:THR:OG1	2.20	0.41
2:CM:20:GLY:CA	2:CM:56:PRO:O	2.67	0.41
2:CP:55:GLY:HA2	2:CP:56:PRO:HD3	1.80	0.41
2:CW:160:HIS:N	2:CW:160:HIS:ND1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:113:THR:HG22	1:BH:114:LYS:N	2.36	0.41
2:CI:149:ALA:O	2:CI:152:TYR:CD2	2.74	0.41
2:CN:149:ALA:O	2:CN:152:TYR:CD2	2.75	0.41
2:CN:152:TYR:HB3	2:CN:197:LEU:CD2	2.51	0.41
2:CV:153:GLN:HE22	3:DV:55:SER:CB	2.33	0.41
2:CU:153:GLN:HE22	3:DU:55:SER:CB	2.33	0.41
2:CL:152:TYR:HB3	2:CL:197:LEU:CD2	2.51	0.41
2:CX:153:GLN:NE2	3:DX:53:PHE:O	2.50	0.41
2:CG:153:GLN:HE22	3:DG:55:SER:CB	2.33	0.41
2:CG:152:TYR:HB3	2:CG:197:LEU:CD2	2.51	0.41
1:AG:71:LEU:O	1:AG:218:MET:HE1	2.26	0.41
2:CE:152:TYR:HB3	2:CE:197:LEU:CD2	2.51	0.41
3:D9:152:SER:O	3:D9:153:ALA:HB2	2.21	0.41
2:CA:153:GLN:NE2	3:DA:53:PHE:O	2.50	0.41
2:CS:152:TYR:HB3	2:CS:197:LEU:CD2	2.51	0.41
1:AH:75:CYS:CB	1:AH:218:MET:SD	3.03	0.41
3:DB:53:PHE:N	3:DB:53:PHE:CD1	2.88	0.41
2:CQ:15:GLU:CB	2:CQ:29:SER:HB2	2.52	0.41
3:D1:152:SER:O	3:D1:153:ALA:HB2	2.21	0.41
2:CD:149:ALA:O	2:CD:152:TYR:CD2	2.74	0.41
1:AZ:221:PRO:HA	3:D0:40:PHE:HE2	1.86	0.41
2:CK:218:ILE:HD13	2:CK:218:ILE:HG21	1.90	0.41
1:AV:184:TYR:HE2	2:CW:139:ALA:HB2	1.86	0.41
1:AE:160:TYR:OH	1:AE:167:VAL:HG23	2.21	0.41
3:DC:31:VAL:CB	4:FC:34:ILE:O	2.69	0.41
1:AH:160:TYR:OH	1:AH:167:VAL:HG23	2.21	0.41
1:AJ:160:TYR:OH	1:AJ:167:VAL:HG23	2.21	0.41
3:DD:31:VAL:CB	4:FD:34:ILE:O	2.69	0.41
1:AL:168:PRO:HB3	2:CN:180:PRO:HB3	83.49	0.41
2:C9:88:LEU:C	2:C9:90:LYS:H	2.23	0.41
1:AS:160:TYR:OH	1:AS:167:VAL:HG23	2.21	0.41
1:AT:79:PHE:CE2	1:AT:160:TYR:CD2	3.08	0.41
3:DU:31:VAL:CB	4:FU:34:ILE:O	2.69	0.41
1:AC:168:PRO:HB3	2:CC:180:PRO:HB3	2.03	0.41
1:BH:160:TYR:OH	1:BH:167:VAL:HG23	2.21	0.41
1:A1:184:TYR:HE2	2:C2:139:ALA:HB3	1.84	0.41
2:C3:180:PRO:HD2	2:C3:189:HIS:HE1	1.77	0.41
1:AS:168:PRO:HB3	2:CT:180:PRO:HB3	2.03	0.41
1:A8:174:TRP:CD1	1:A8:184:TYR:HA	2.56	0.41
2:C7:69:TRP:CZ3	2:C7:124:LEU:HD21	2.56	0.41
1:A3:79:PHE:CE2	1:A3:160:TYR:CD2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:AT:174:TRP:CD1	1:AT:184:TYR:HA	2.56	0.41
1:A5:184:TYR:HE2	2:C6:139:ALA:HB2	1.86	0.41
1:AQ:219:TYR:CE2	3:DQ:39:ARG:HD2	2.55	0.41
2:CD:69:TRP:CZ3	2:CD:124:LEU:HD21	2.56	0.41
1:BF:168:PRO:HB3	2:CU:180:PRO:HB3	239.09	0.41
1:AY:174:TRP:CD1	1:AY:184:TYR:HA	2.56	0.41
3:DB:54:CYS:SG	3:DB:208:VAL:HG21	2.61	0.41
3:D3:54:CYS:SG	3:D3:208:VAL:HG21	2.61	0.41
1:AL:239:PHE:CD2	3:DN:226:GLN:NE2	81.58	0.41
2:C9:54:LEU:HD23	2:C9:54:LEU:HA	1.84	0.41
3:DP:29:VAL:HG13	3:DQ:218:HIS:HE1	1.86	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	242.43	0.41
1:AH:241:THR:CG2	1:AL:110:GLY:O	271.82	0.41
1:AA:110:GLY:O	1:AB:241:THR:CG2	2.69	0.41
1:BA:108:PRO:O	1:BB:242:ASN:ND2	2.54	0.41
2:C4:103:LEU:HD12	2:C4:223:ASN:HB2	2.02	0.41
1:A6:108:PRO:O	1:A7:242:ASN:ND2	2.54	0.41
1:A0:110:GLY:O	1:A1:241:THR:CG2	2.69	0.41
3:D6:115:ALA:CB	3:D6:194:THR:OG1	2.67	0.41
2:C0:166:ARG:HD3	3:D0:110:PHE:O	2.20	0.41
1:AM:6:GLU:O	2:CO:162:LEU:N	115.56	0.41
3:DT:47:ALA:HB2	3:DT:89:TYR:CD2	2.56	0.41
1:AE:224:ILE:CD1	3:DE:89:TYR:CE1	3.04	0.41
1:AI:224:ILE:CD1	3:DI:89:TYR:CE1	3.04	0.41
3:DA:47:ALA:HB2	3:DA:89:TYR:CD2	2.56	0.41
3:DM:47:ALA:HB2	3:DM:89:TYR:CD2	2.56	0.41
3:DS:47:ALA:HB2	3:DS:89:TYR:CD2	2.56	0.41
1:AH:6:GLU:O	2:CJ:162:LEU:N	115.56	0.41
1:AB:224:ILE:HA	1:AB:225:PRO:HD2	1.86	0.41
1:AF:224:ILE:CD1	3:DF:89:TYR:CE1	3.04	0.41
1:AF:224:ILE:HA	1:AF:225:PRO:HD2	1.86	0.41
1:AZ:224:ILE:HD11	3:D0:89:TYR:CE1	2.55	0.41
3:D0:47:ALA:HB2	3:D0:89:TYR:CD2	2.56	0.41
1:A7:224:ILE:CD1	3:D8:89:TYR:CE1	3.04	0.41
3:D8:47:ALA:HB2	3:D8:89:TYR:CD2	2.56	0.41
1:BG:224:ILE:HD11	3:EC:89:TYR:CE1	2.55	0.41
3:ED:121:LEU:O	3:ED:186:TYR:N	2.39	0.41
1:A3:224:ILE:CD1	3:D4:89:TYR:CE1	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:224:ILE:CD1	3:D3:89:TYR:CE1	3.04	0.41
1:AX:224:ILE:CD1	3:DY:89:TYR:CE1	3.04	0.41
1:AX:224:ILE:HD11	3:DY:89:TYR:CE1	2.55	0.41
3:DU:121:LEU:O	3:DU:186:TYR:N	2.39	0.41
3:D8:169:VAL:CG1	3:D8:169:VAL:O	2.70	0.41
3:DC:169:VAL:CG1	3:DC:169:VAL:O	2.69	0.41
3:DO:169:VAL:CG1	3:DO:169:VAL:O	2.69	0.41
3:DS:169:VAL:CG1	3:DS:169:VAL:O	2.69	0.41
1:AH:66:LEU:HD21	1:AL:132:GLN:OE1	285.03	0.41
1:AR:107:PHE:CE1	1:AR:196:LEU:HB2	2.55	0.41
1:A8:55:HIS:O	1:A8:194:SER:HA	2.21	0.41
1:A1:132:GLN:OE1	1:A2:66:LEU:HD21	2.20	0.41
1:AG:107:PHE:CE1	1:AG:196:LEU:HB2	2.55	0.41
1:A5:107:PHE:CE1	1:A5:196:LEU:HB2	2.55	0.41
3:D2:79:SER:O	3:D2:81:SER:N	2.51	0.41
1:AM:24:MET:O	1:AM:25:HIS:HB2	2.21	0.41
1:AN:24:MET:O	1:AN:25:HIS:HB2	2.21	0.41
1:AE:24:MET:O	1:AE:25:HIS:HB2	2.21	0.41
1:BB:24:MET:O	1:BB:25:HIS:HB2	2.21	0.41
1:BD:225:PRO:HA	1:BD:226:PRO:HD2	1.88	0.41
1:AW:93:THR:O	1:AW:95:SER:N	2.53	0.41
2:C0:77:HIS:HE1	2:C0:144:GLU:HG2	1.84	0.41
1:BC:20:SER:HA	1:BC:21:PRO:HD3	1.92	0.41
1:AB:7:ASP:O	1:AB:8:GLY:C	2.59	0.41
1:A1:7:ASP:O	1:A1:8:GLY:C	2.59	0.41
1:A2:7:ASP:O	1:A2:8:GLY:C	2.59	0.41
1:BC:243:ILE:H	1:BC:243:ILE:HG13	1.70	0.41
1:AY:234:LYS:HA	1:AY:234:LYS:HD3	1.89	0.41
1:AY:7:ASP:O	1:AY:8:GLY:C	2.59	0.41
2:CR:215:VAL:HG12	2:CR:216:ALA:N	2.36	0.40
3:D5:64:VAL:HG13	3:D5:120:PHE:HE1	1.86	0.40
3:D7:120:PHE:HD2	3:D7:146:TRP:CZ2	2.38	0.40
3:D3:120:PHE:HD2	3:D3:146:TRP:CZ2	2.38	0.40
3:EB:64:VAL:HG13	3:EB:120:PHE:HE1	1.85	0.40
2:C9:215:VAL:HG12	2:C9:216:ALA:N	2.36	0.40
2:C6:215:VAL:HG12	2:C6:216:ALA:N	2.36	0.40
2:CN:215:VAL:HG12	2:CN:216:ALA:N	2.36	0.40
2:CP:215:VAL:HG12	2:CP:216:ALA:N	2.36	0.40
3:DB:103:SER:OG	3:DB:213:ASP:OD2	2.39	0.40
3:DH:100:TYR:HA	3:DH:215:SER:O	2.21	0.40
3:DI:101:ARG:HH12	3:DI:165:ASP:HB3	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DO:160:TYR:C	3:DO:160:TYR:CD1	2.94	0.40
3:D3:101:ARG:HH12	3:D3:165:ASP:HB3	1.84	0.40
3:EE:103:SER:HB2	3:EE:159:PRO:HA	1.95	0.40
3:DU:100:TYR:HA	3:DU:215:SER:O	2.21	0.40
3:ED:160:TYR:C	3:ED:160:TYR:CD1	2.94	0.40
3:D1:103:SER:OG	3:D1:213:ASP:OD2	2.39	0.40
3:D0:160:TYR:CD1	3:D0:160:TYR:C	2.94	0.40
1:A9:42:THR:O	1:A9:42:THR:CG2	2.69	0.40
1:AA:140:PRO:HB3	3:DC:25:LEU:HB3	41.39	0.40
1:AA:83:GLU:C	1:AA:84:LEU:HD12	2.41	0.40
1:AB:83:GLU:C	1:AB:84:LEU:HD12	2.41	0.40
1:AD:66:LEU:O	1:AD:68:TRP:N	2.55	0.40
1:AD:82:LEU:HG	1:AD:83:GLU:H	1.86	0.40
1:AF:199:SER:C	1:AF:201:ALA:H	2.25	0.40
1:AF:83:GLU:C	1:AF:84:LEU:HD12	2.41	0.40
1:AG:40:VAL:HG13	1:AG:211:TYR:HD1	1.86	0.40
1:AI:40:VAL:HG13	1:AI:211:TYR:HD1	1.86	0.40
1:AJ:140:PRO:HB3	3:DJ:25:LEU:HB3	2.03	0.40
1:AJ:199:SER:C	1:AJ:201:ALA:H	2.25	0.40
1:AM:101:PHE:CD2	1:AM:143:VAL:CG1	2.91	0.40
1:AM:38:PHE:CD2	1:AM:68:TRP:HB2	2.56	0.40
1:AN:132:GLN:OE1	1:AO:66:LEU:HD21	2.20	0.40
1:AO:82:LEU:HG	1:AO:83:GLU:H	1.86	0.40
1:AP:42:THR:O	1:AP:42:THR:CG2	2.69	0.40
1:AS:82:LEU:HG	1:AS:83:GLU:H	1.86	0.40
1:AT:82:LEU:HG	1:AT:83:GLU:H	1.86	0.40
1:AW:88:PHE:CA	1:AW:207:CYS:HA	2.48	0.40
1:AW:83:GLU:C	1:AW:84:LEU:HD12	2.41	0.40
1:BA:42:THR:O	1:BA:42:THR:CG2	2.69	0.40
1:BC:83:GLU:C	1:BC:84:LEU:HD12	2.41	0.40
1:BD:38:PHE:CD2	1:BD:68:TRP:HB2	2.56	0.40
1:BF:83:GLU:C	1:BF:84:LEU:HD12	2.41	0.40
1:BI:42:THR:O	1:BI:42:THR:CG2	2.69	0.40
1:AC:140:PRO:HB3	3:DC:25:LEU:HB3	2.03	0.40
1:AH:140:PRO:HB3	3:DH:25:LEU:HB3	2.03	0.40
3:DN:27:PRO:CB	4:FN:30:TYR:HA	2.51	0.40
3:DO:43:PHE:O	3:DO:44:ILE:C	2.60	0.40
1:A3:82:LEU:HG	1:A3:83: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:BH:83:GLU:C	1:BH:84:LEU:HD12	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:40:VAL:HG13	1:A5:211:TYR:HD1	1.87	0.40
1:BI:112:PRO:CG	3:EA:223:PRO:HD3	2.50	0.40
1:AW:112:PRO:CG	3:DY:223:PRO:HD3	2.50	0.40
1:AB:175:GLY:O	3:DC:176:VAL:HG12	2.21	0.40
1:A5:175:GLY:O	3:D7:176:VAL:HG12	2.21	0.40
1:AK:175:GLY:O	3:DN:176:VAL:HG12	92.61	0.40
1:AJ:175:GLY:O	3:DM:176:VAL:HG12	255.94	0.40
1:AO:175:GLY:O	3:DK:176:VAL:HG12	2.22	0.40
1:AH:188:PRO:HG3	3:DI:176:VAL:CG1	2.50	0.40
1:AO:175:GLY:O	3:DT:176:VAL:HG12	92.26	0.40
1:BC:175:GLY:N	1:BC:183:THR:O	2.53	0.40
1:A9:174:TRP:CD1	1:A9:184:TYR:HA	2.56	0.40
2:CA:139:ALA:O	2:CA:140:LEU:HB2	2.21	0.40
2:C7:139:ALA:O	2:C7:140:LEU:HB2	2.21	0.40
1:AN:184:TYR:HE2	2:CN:139:ALA:HB2	1.86	0.40
2:CF:139:ALA:O	2:CF:140:LEU:HB2	2.21	0.40
1:AH:184:TYR:CE2	2:CH:139:ALA:CB	3.03	0.40
1:A7:174:TRP:CD1	1:A7:184:TYR:HA	2.56	0.40
1:AB:113:THR:HG22	1:AB:114:LYS:N	2.36	0.40
1:BD:113:THR:HG22	1:BD:114:LYS:N	2.36	0.40
2:CD:20:GLY:CA	2:CD:56:PRO:O	2.67	0.40
1:AJ:113:THR:HG22	1:AJ:114:LYS:N	2.36	0.40
2:CN:160:HIS:ND1	2:CN:160:HIS:N	2.70	0.40
1:A9:48:LEU:O	1:A9:131:GLN:HG2	2.20	0.40
2:CG:160:HIS:N	2:CG:160:HIS:ND1	2.70	0.40
2:CB:160:HIS:N	2:CB:160:HIS:ND1	2.70	0.40
2:CF:160:HIS:N	2:CF:160:HIS:ND1	2.69	0.40
1:AP:174:TRP:CD1	1:AP:184:TYR:HA	2.56	0.40
2:CP:139:ALA:O	2:CP:140:LEU:HB2	2.21	0.40
1:AH:113:THR:HG22	1:AH:114:LYS:N	2.36	0.40
2:CP:149:ALA:O	2:CP:152:TYR:CD2	2.74	0.40
3:DP:53:PHE:N	3:DP:53:PHE:CD1	2.88	0.40
2:CQ:152:TYR:HB3	2:CQ:197:LEU:CD2	2.51	0.40
2:CH:153:GLN:HE22	3:DH:55:SER:N	2.19	0.40
2:CJ:149:ALA:O	2:CJ:152:TYR:CD2	2.75	0.40
3:DJ:53:PHE:CD1	3:DJ:53:PHE:N	2.88	0.40
2:CT:149:ALA:O	2:CT:152:TYR:CD2	2.75	0.40
2:CX:152:TYR:HB3	2:CX:197:LEU:CD2	2.51	0.40
1:AK:221:PRO:HA	3:DK:40:PHE:HE2	1.87	0.40
1:AM:221:PRO:HA	3:DM:40:PHE:HE2	1.86	0.40
2:CR:152:TYR:HB3	2:CR:197:LEU:CD2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:152:SER:O	3:DA:153:ALA:HB2	2.21	0.40
2:CZ:152:TYR:HB3	2:CZ:197:LEU:CD2	2.51	0.40
2:C4:149:ALA:O	2:C4:152:TYR:CD2	2.75	0.40
3:D7:53:PHE:CD1	3:D7:53:PHE:N	2.88	0.40
2:CS:28:GLY:O	2:CS:168:ASN:HB2	2.21	0.40
2:C6:152:TYR:HB3	2:C6:197:LEU:CD2	2.51	0.40
1:AV:72:LEU:O	1:AV:75:CYS:SG	2.76	0.40
1:BI:220:CYS:HA	1:BI:221:PRO:HD2	1.82	0.40
1:BH:184:TYR:HE2	2:CW:139:ALA:HB2	239.39	0.40
1:BH:174:TRP:NE1	2:CW:137:GLU:OE2	240.07	0.40
3:DQ:31:VAL:CB	4:FQ:34:ILE:O	2.69	0.40
1:A9:160:TYR:OH	1:A9:167:VAL:HG23	2.21	0.40
1:BD:160:TYR:OH	1:BD:167:VAL:HG23	2.21	0.40
3:DO:31:VAL:CB	4:FO:34:ILE:O	2.69	0.40
3:DJ:31:VAL:CB	4:FJ:34:ILE:O	2.69	0.40
3:DZ:31:VAL:CB	4:FZ:34:ILE:O	2.69	0.40
1:AD:168:PRO:HB3	2:CD:180:PRO:HB3	2.03	0.40
1:AN:168:PRO:HB3	2:CN:180:PRO:HB3	2.03	0.40
1:AE:219:TYR:CE2	3:DE:39:ARG:HD2	2.55	0.40
1:AO:219:TYR:CE2	3:DO:39:ARG:HD2	2.55	0.40
1:BB:184:TYR:HE2	2:CQ:139:ALA:HB2	133.10	0.40
2:CQ:139:ALA:O	2:CQ:140:LEU:HB2	2.21	0.40
1:BG:160:TYR:OH	1:BG:167:VAL:HG23	2.21	0.40
3:EC:31:VAL:CB	4:FV:34:ILE:O	218.26	0.40
3:DX:31:VAL:CB	4:FX:34:ILE:O	2.69	0.40
3:DK:75:GLN:NE2	3:DK:184:GLN:OE1	2.49	0.40
1:A4:219:TYR:HA	3:D5:39:ARG:HA	2.02	0.40
3:DW:31:VAL:CB	4:FW:34:ILE:O	2.69	0.40
2:C4:69:TRP:CZ3	2:C4:124:LEU:HD21	2.56	0.40
1:AJ:62:SER:HB2	1:AJ:73:ASN:ND2	2.27	0.40
1:BE:168:PRO:HB3	2:CT:180:PRO:HB3	189.94	0.40
2:CO:69:TRP:CD1	2:CO:70:PRO:N	2.89	0.40
3:DT:75:GLN:NE2	3:DT:184:GLN:OE1	2.49	0.40
1:BF:174:TRP:CD1	1:BF:184:TYR:HA	2.56	0.40
1:A5:174:TRP:CD1	1:A5:184:TYR:HA	2.56	0.40
1:BB:219:TYR:CE2	3:DQ:39:ARG:HD2	114.56	0.40
3:D3:31:VAL:CB	4:F3:34:ILE:O	2.69	0.40
2:CZ:139:ALA:O	2:CZ:140:LEU:HB2	2.21	0.40
1:AX:174:TRP:CD1	1:AX:184:TYR:HA	2.56	0.40
2:CB:69:TRP:CZ3	2:CB:124:LEU:HD21	2.56	0.40
3:DJ:54:CYS:SG	3:DJ:208:VAL:HG21	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D0:54:CYS:SG	3:D0:208:VAL:HG21	2.61	0.40
1:A9:239:PHE:CD2	3:DA:226:GLN:NE2	247.53	0.40
3:DB:29:VAL:HG13	3:DC:218:HIS:HE1	1.87	0.40
3:DR:29:VAL:HG13	3:DS:218:HIS:HE1	1.87	0.40
2:CK:103:LEU:O	2:CK:223:ASN:ND2	2.49	0.40
1:AH:108:PRO:O	1:AI:242:ASN:ND2	2.54	0.40
1:AF:110:GLY:O	1:AG:241:THR:CG2	2.70	0.40
1:AP:110:GLY:O	1:AQ:241:THR:CG2	2.70	0.40
1:AD:110:GLY:O	1:AE:241:THR:CG2	2.70	0.40
1:AM:108:PRO:O	1:BA:242:ASN:ND2	214.53	0.40
1:BF:108:PRO:O	1:BG:242:ASN:ND2	2.54	0.40
3:DY:138:ALA:O	3:DY:141:CYS:SG	2.78	0.40
3:DV:138:ALA:O	3:DV:141:CYS:SG	2.78	0.40
3:DX:138:ALA:O	3:DX:141:CYS:SG	2.78	0.40
1:A3:241:THR:CG2	1:A7:110:GLY:O	2.70	0.40
1:BB:110:GLY:O	1:BC:241:THR:CG2	2.70	0.40
3:DN:115:ALA:CB	3:DN:194:THR:OG1	2.67	0.40
2:CO:166:ARG:O	2:CO:166:ARG:HG3	2.22	0.40
3:D8:115:ALA:CB	3:D8:194:THR:OG1	2.67	0.40
1:AC:6:GLU:O	2:CC:162:LEU:N	2.53	0.40
3:DG:47:ALA:HB2	3:DG:89:TYR:CD2	2.56	0.40
1:AL:224:ILE:HA	1:AL:225:PRO:HD2	1.86	0.40
3:DH:47:ALA:HB2	3:DH:89:TYR:CD2	2.56	0.40
1:AJ:224:ILE:CD1	3:DJ:89:TYR:CE1	3.04	0.40
1:AZ:224:ILE:HA	1:AZ:225:PRO:HD2	1.86	0.40
1:AV:224:ILE:CD1	3:DW:89:TYR:CE1	3.04	0.40
1:BB:224:ILE:CD1	3:DQ:89:TYR:CE1	111.22	0.40
3:DE:121:LEU:O	3:DE:186:TYR:N	2.39	0.40
3:D3:47:ALA:HB2	3:D3:89:TYR:CD2	2.56	0.40
1:BF:224:ILE:CD1	3:EB:89:TYR:CE1	3.04	0.40
3:D5:47:ALA:HB2	3:D5:89:TYR:CD2	2.56	0.40
1:A4:224:ILE:HD11	3:D5:89:TYR:CE1	2.55	0.40
3:DX:47:ALA:HB2	3:DX:89:TYR:CD2	2.56	0.40
3:DY:47:ALA:HB2	3:DY:89:TYR:CD2	2.56	0.40
1:BE:224:ILE:HD11	3:EA:89:TYR:CE1	2.55	0.40
3:DF:169:VAL:CG1	3:DF:169:VAL:O	2.70	0.40
3:EE:169:VAL:O	3:EE:169:VAL:CG1	2.69	0.40
3:D0:169:VAL:CG1	3:D0:169:VAL:O	2.69	0.40
3:EC:169:VAL:CG1	3:EC:169:VAL:O	2.69	0.40
1:AQ:132:GLN:OE1	1:AR:66:LEU:HD21	2.20	0.40
1:BE:55:HIS:O	1:BE:194:SER:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:55:HIS:O	1:BH:194:SER:HA	2.21	0.40
1:BC:55:HIS:O	1:BC:194:SER:HA	2.21	0.40
1:BD:24:MET:O	1:BD:25:HIS:HB2	2.21	0.40
1:AB:24:MET:O	1:AB:25:HIS:HB2	2.21	0.40
1:AS:93:THR:O	1:AS:95:SER:N	2.53	0.40
1:AZ:20:SER:HA	1:AZ:21:PRO:HD3	1.92	0.40
1:AP:93:THR:O	1:AP:95:SER:N	2.53	0.40
1:A0:7:ASP:O	1:A0:8:GLY:C	2.59	0.40
1:AL:7:ASP:O	1:AL:8:GLY:C	2.59	0.40
4:F6:32:ASN:HB3	4:F6:33:SER:H	1.58	0.40
2:C2:95:HIS:CD2	2:C2:95:HIS:C	2.93	0.40
1:AY:243:ILE:H	1:AY:243:ILE:HG13	1.70	0.40
1:AH:20:SER:HA	1:AH:21:PRO:HD3	1.92	0.40
1:BD:7:ASP:O	1:BD:8:GLY:C	2.59	0.40
2:CC:117:SER:HB3	3:DN:192:THR:CG2	160.99	0.40
2:CF:215:VAL:HG12	2:CF:216:ALA:N	2.36	0.40
2:C4:115:ASN:HD22	3:EC:190:ALA:C	2.17	0.40
1:AE:17:HIS:O	1:AE:19:LEU:N	2.55	0.40
3:DM:103:SER:OG	3:DM:213:ASP:OD2	2.39	0.40
3:DN:103:SER:OG	3:DN:213:ASP:OD2	2.39	0.40
3:EB:101:ARG:HH12	3:EB:165:ASP:HB3	1.84	0.40
3:D5:103:SER:OG	3:D5:213:ASP:OD2	2.39	0.40
3:D3:160:TYR:CD1	3:D3:160:TYR:C	2.94	0.40
3:D3:100:TYR:HA	3:D3:215:SER:O	2.21	0.40
3:DX:101:ARG:HH12	3:DX:165:ASP:HB3	1.84	0.40
3:DX:100:TYR:HA	3:DX:215:SER:O	2.21	0.40
3:D4:103:SER:OG	3:D4:213:ASP:OD2	2.39	0.40
3:DY:100:TYR:HA	3:DY:215:SER:O	2.21	0.40
3:DU:103:SER:OG	3:DU:213:ASP:OD2	2.39	0.40
3:DU:103:SER:HB3	3:DU:159:PRO:C	2.40	0.40
1:BH:17:HIS:O	1:BH:19:LEU:N	2.55	0.40
3:D7:103:SER:OG	3:D7:213:ASP:OD2	2.39	0.40
3:D6:160:TYR:C	3:D6:160:TYR:CD1	2.94	0.40
1:A9:38:PHE:CD2	1:A9:68:TRP:HB2	2.56	0.40
1:A9:83:GLU:C	1:A9:84:LEU:HD12	2.41	0.40
1:AA:66:LEU:O	1:AA:68:TRP:N	2.55	0.40
1:AE:66:LEU:O	1:AE:68:TRP:N	2.55	0.40
1:AE:83:GLU:C	1:AE:84:LEU:HD12	2.41	0.40
1:AF:66:LEU:O	1:AF:68:TRP:N	2.55	0.40
1:AG:101:PHE:O	1:AG:199:SER:OG	2.33	0.40
1:AG:88:PHE:CA	1:AG:207:CYS:HA	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:41:GLU:OE2	1:AG:211:TYR:OH	2.40	0.40
1:AI:199:SER:C	1:AI:201:ALA:H	2.25	0.40
1:AK:199:SER:C	1:AK:201:ALA:H	2.25	0.40
1:AL:199:SER:C	1:AL:201:ALA:H	2.25	0.40
1:AL:66:LEU:O	1:AL:68:TRP:N	2.55	0.40
1:AM:132:GLN:OE1	1:BA:66:LEU:HD21	216.36	0.40
1:AM:88:PHE:CA	1:AM:207:CYS:HA	2.48	0.40
1:AN:42:THR:O	1:AN:42:THR:CG2	2.69	0.40
1:AP:146:ILE:HD13	1:AP:146:ILE:HG21	1.74	0.40
1:AP:66:LEU:O	1:AP:68:TRP:N	2.55	0.40
1:AR:139:SER:HA	1:AR:140:PRO:HD3	1.62	0.40
1:AO:132:GLN:OE1	1:AS:66:LEU:HD21	97.19	0.40
1:AU:40:VAL:HG13	1:AU:211:TYR:HD1	1.86	0.40
1:AU:82:LEU:HG	1:AU:83:GLU:H	1.86	0.40
1:AV:101:PHE:O	1:AV:199:SER:OG	2.33	0.40
1:AW:38:PHE:CE2	1:AW:68:TRP:HB2	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: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:HG21	1:BD:146:ILE:HD13	1.74	0.40
1:BE:38:PHE:CE2	1:BE:68:TRP:HB2	2.56	0.40
1:BG:40:VAL:HG13	1:BG:211:TYR:HD1	1.86	0.40
1:BI:38:PHE:CD2	1:BI:68:TRP:HB2	2.56	0.40
1:BI:83:GLU:C	1:BI:84:LEU:HD12	2.41	0.40
3:DE:23:THR:HA	3:DE:24:PRO:HD3	1.89	0.40
3:DD:13:SER:O	3:DE:9:PRO:HD3	2.20	0.40
3:DF:21:ASN:HB2	3:DF:22:SER:H	1.74	0.40
1:AK:140:PRO:HB3	3:DM:25:LEU:HB3	41.39	0.40
3:DJ:27:PRO:CB	4:FJ:30:TYR:HA	2.51	0.40
3:DG:43:PHE:O	3:DG:44:ILE:C	2.60	0.40
3:DL:43:PHE:O	3:DL:44:ILE:C	2.60	0.40
1:A7:83:GLU:C	1:A7:84:LEU:HD12	2.41	0.40
1:BH:42:THR:O	1:BH:42:THR:CG2	2.69	0.40
1:AD:112:PRO:CG	3:DG:223:PRO:HD3	124.74	0.40
1:A5:42:THR:CG2	1:A5:42:THR:O	2.69	0.40
1:A5:66:LEU:O	1:A5:68:TRP:N	2.55	0.40
1:AZ:199:SER:C	1:AZ:201:ALA:H	2.25	0.40
3:EA:98:ALA:HB2	3:EA:220:VAL:HG21	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:40:VAL:HG13	1:AZ:211:TYR:HD1	1.86	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:AA:175:GLY:O	3:DD:176:VAL:HG12	92.61	0.40
1:AS:175:GLY:N	1:AS:183:THR:O	2.52	0.40
1:BB:175:GLY:O	3:DR:176:VAL:HG12	137.50	0.40
1:A0:175:GLY:O	3:D2:176:VAL:HG12	2.21	0.40
1:A6:83:GLU:C	1:A6:84:LEU:HD12	2.41	0.40
3:D5:98:ALA:HB2	3:D5:220:VAL:HG21	2.01	0.40
2:C5:209:VAL:O	2:C5:209:VAL:CG1	2.65	0.40
1:BG:174:TRP:CD1	1:BG:184:TYR:HA	2.56	0.40
1:A9:184:TYR:HE2	2:CA:139:ALA:HB2	264.13	0.40
1:AA:174:TRP:CD1	1:AA:184:TYR:HA	2.56	0.40
2:CC:139:ALA:O	2:CC:140:LEU:HB2	2.21	0.40
2:CE:139:ALA:O	2:CE:140:LEU:HB2	2.21	0.40
1:AK:184:TYR:CE2	2:CM:139:ALA:CB	104.74	0.40
2:CM:139:ALA:O	2:CM:140:LEU:HB2	2.21	0.40
1:AF:184:TYR:HE2	2:CH:139:ALA:HB2	104.84	0.40
1:AL:174:TRP:CD1	1:AL:184:TYR:HA	2.56	0.40
1:AL:184:TYR:HE2	2:CN:139:ALA:HB2	104.84	0.40
1:AD:184:TYR:HE2	2:CF:139:ALA:HB2	107.30	0.40
2:C8:139:ALA:O	2:C8:140:LEU:HB2	2.21	0.40
1:A3:184:TYR:HE2	2:C4:139:ALA:HB2	1.86	0.40
2:CC:56:PRO:C	2:CC:57:THR:O	2.59	0.40
2:CN:58:LEU:HB3	2:CN:59:SER:H	1.65	0.40
1:A3:48:LEU:O	1:A3:131:GLN:HG2	2.20	0.40
2:CX:139:ALA:O	2:CX:140:LEU:HB2	2.21	0.40
1:AO:113:THR:HG22	1:AO:114:LYS:N	2.36	0.40
2:CX:20:GLY:CA	2:CX:56:PRO:O	2.67	0.40
2:CR:20:GLY:CA	2:CR:56:PRO:O	2.67	0.40
1:AX:113:THR:HG22	1:AX:114:LYS:N	2.36	0.40
1:AI:113:THR:HG22	1:AI:114:LYS:N	2.36	0.40
1:A5:49:THR:CG2	1:A5:50:GLY:N	2.83	0.40
2:CT:160:HIS:N	2:CT:160:HIS:ND1	2.70	0.40
1:AP:174:TRP:HB2	2:CP:188:LEU:CD2	2.44	0.40
1:BA:174:TRP:CD1	1:BA:184:TYR:HA	2.56	0.40
1:AP:184:TYR:CE2	2:CP:139:ALA:CB	3.03	0.40
2:CC:160:HIS:ND1	2:CC:160:HIS:N	2.70	0.40
2:CR:160:HIS:ND1	2:CR:160:HIS:N	2.70	0.40
1:AS:113:THR:HG22	1:AS:114:LYS:N	2.36	0.40
1:AS:115:THR:HG23	1:AS:133:LEU:N	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DQ:152:SER:O	3:DQ:153:ALA:HB2	2.21	0.40
2:CH:152:TYR:HB3	2:CH:197:LEU:CD2	2.51	0.40
2:CU:149:ALA:O	2:CU:152:TYR:CD2	2.74	0.40
3:DU:152:SER:O	3:DU:153:ALA:HB2	2.21	0.40
2:CT:153:GLN:HE22	3:DT:55:SER:N	2.19	0.40
3:DT:53:PHE:CD1	3:DT:53:PHE:N	2.88	0.40
2:CL:153:GLN:HE22	3:DL:55:SER:N	2.19	0.40
2:CX:149:ALA:O	2:CX:152:TYR:CD2	2.75	0.40
1:AM:76:THR:CB	1:AM:220:CYS:HB2	2.49	0.40
1:AO:170:PHE:HD2	1:AO:222:ARG:NH1	2.18	0.40
1:AO:221:PRO:HA	3:DS:40:PHE:HE2	116.55	0.40
2:CT:28:GLY:O	2:CT:168:ASN: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:C9:153:GLN:HE22	3:D9:55:SER:N	2.19	0.40
2:CW:153:GLN:HE22	3:ED:55:SER:N	253.21	0.40
2:CK:152:TYR:HB3	2:CK:197:LEU:CD2	2.51	0.40
2:CW:15:GLU:CB	2:CW:29:SER:HB2	2.52	0.40
2:CS:149:ALA:O	2:CS:152:TYR:CD2	2.75	0.40
1:AL:221:PRO:HA	3:DL:40:PHE:HE2	1.87	0.40
2:CB:149:ALA:O	2:CB:152:TYR:CD2	2.74	0.40
1:AR:221:PRO:HA	3:DR:40:PHE:HE2	1.87	0.40
1:A4:220:CYS:HA	1:A4:221:PRO:HD2	1.82	0.40
1:BH:76:THR:CB	1:BH:220:CYS:HB2	2.49	0.40
3:D6:53:PHE:N	3:D6:53:PHE:CD1	2.88	0.40
1:BG:221:PRO:HA	3:EC:40:PHE:HE2	1.87	0.40
1:AV:221:PRO:HA	3:DW:40:PHE:HE2	1.87	0.40
2:CD:218:ILE:HD13	2:CD:218:ILE:HG21	1.89	0.40
1:AH:219:TYR:CE2	3:DJ:39:ARG:HD2	70.31	0.40
3:EA:31:VAL:CB	4:FT:34:ILE:O	166.89	0.40
1:AM:219:TYR:CE2	3:DM:39:ARG:HD2	2.55	0.40
1:AI:168:PRO:HB3	2:CK:180:PRO:HB3	256.77	0.40
1:AM:168:PRO:HB3	2:CO:180:PRO:HB3	83.49	0.40
1:AR:168:PRO:HB3	2:CR:180:PRO:HB3	2.03	0.40
2:C1:139:ALA:O	2:C1:140:LEU:HB2	2.21	0.40
1:AY:168:PRO:HB3	2:CZ:180:PRO:HB3	2.03	0.40
2:CH:69:TRP:CD1	2:CH:70:PRO:N	2.89	0.40
1:A3:160:TYR:OH	1:A3:167:VAL:HG23	2.21	0.40
2:CQ:69:TRP:CD1	2:CQ:70:PRO:N	2.89	0.40
1:A5:219:TYR:HA	3:D6:39:ARG:HA	2.02	0.40
1:AU:62:SER:HB2	1:AU:73:ASN:ND2	2.27	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DX:54:CYS:SG	3:DX:208:VAL:HG21	2.61	0.40
3:D8:54:CYS:SG	3:D8:208:VAL:HG21	2.61	0.40
3:EE:54:CYS:SG	3:EE:208:VAL:HG21	2.61	0.40
2:CW:54:LEU:HA	2:CW:54:LEU:HD23	1.84	0.40
1:BE:239:PHE:CD2	3:EA:226:GLN:NE2	2.87	0.40
2:CT:54:LEU:HD23	2:CT:54:LEU:HA	1.84	0.40
2:CN:54:LEU:HD23	2:CN:54:LEU:HA	1.84	0.40
1:A6:43:LEU:HD23	1:A6:43:LEU:H	1.81	0.40
3:DE:29:VAL:HG13	3:DF:218:HIS:HE1	75.64	0.40
3:DG:29:VAL:HG13	3:DH:218:HIS:HE1	1.87	0.40
3:D1:29:VAL:HG13	3:D2:218:HIS:HE1	1.87	0.40
3:D4:29:VAL:HG13	3:D5:218:HIS:HE1	1.87	0.40
1:AE:76:THR:CB	1:AE:220:CYS:HB2	2.49	0.40
2:CG:103:LEU:HD12	2:CG:223:ASN:HB2	2.02	0.40
1:AI:108:PRO:O	1:AJ:242:ASN:ND2	2.54	0.40
1:AG:108:PRO:O	1:AH:242:ASN:ND2	2.54	0.40
1:AA:241:THR:CG2	1:AE:110:GLY:O	2.70	0.40
1:AJ:110:GLY:O	1:AK:241:THR:CG2	272.83	0.40
1:AO:191:HIS:HB2	1:AO:192:PHE:H	1.71	0.40
1:BG:110:GLY:O	1:BH:241:THR:CG2	2.70	0.40
1:AM:110:GLY:O	1:AN:241:THR:CG2	2.69	0.40
1:AK:110:GLY:O	1:AL:241:THR:CG2	2.70	0.40
1:A3:108:PRO:O	1:A4:242:ASN:ND2	2.54	0.40
2:CA:103:LEU:O	2:CA:223:ASN:ND2	2.49	0.40
1:BH:108:PRO:O	1:BI:242:ASN:ND2	2.54	0.40
1:AQ:110:GLY:O	1:AR:241:THR:CG2	2.70	0.40
1:A4:110:GLY:O	1:A5:241:THR:CG2	2.69	0.40
1:AT:241:THR:CG2	1:AX:110:GLY:O	2.69	0.40
2:CA:65:LYS:CB	3:DW:135:ARG:HH21	2.29	0.40
2:CU:65:LYS:CB	3:D5:135:ARG:HH21	264.81	0.40
2:CD:65:LYS:CB	3:D4:135:ARG:HH21	147.67	0.40
1:A6:110:GLY:O	1:A7:241:THR:CG2	2.69	0.40
1:A0:110:GLY:H	1:A1:242:ASN:ND2	2.12	0.40
3:DC:115:ALA:CB	3:DC:194:THR:OG1	2.67	0.40
3:DJ:115:ALA:CB	3:DJ:194:THR:OG1	2.67	0.40
2:CM:166:ARG:HG3	2:CM:166:ARG:O	2.22	0.40
2:C4:166:ARG:HG3	2:C4:166:ARG:O	2.22	0.40
1:AG:224:ILE:CD1	3:DG:89:TYR:CE1	3.04	0.40
1:BD:224:ILE:CD1	3:DS:89:TYR:CE1	151.92	0.40
1:AF:6:GLU:O	2:CF:162:LEU:N	2.53	0.40
1:AS:6:GLU:O	2:CT:162:LEU:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:224:ILE:HD11	3:DB:89:TYR:CE1	190.55	0.40
3:DN:47:ALA:HB2	3:DN:89:TYR:CD2	2.56	0.40
3:EE:47:ALA:HB2	3:EE:89:TYR:CD2	2.56	0.40
3:DV:47:ALA:HB2	3:DV:89:TYR:CD2	2.56	0.40
1:A8:224:ILE:CD1	3:D9:89:TYR:CE1	3.04	0.40
3:DP:169:VAL:CG1	3:DP:169:VAL:O	2.70	0.40
2:CS:129:VAL:HA	2:CS:130:PRO:HD3	1.78	0.40
2:CW:129:VAL:HA	2:CW:130:PRO:HD3	1.78	0.40
3:DE:169:VAL:O	3:DE:169:VAL:CG1	2.69	0.40
1:BI:107:PHE:CE1	1:BI:196:LEU:HB2	2.55	0.40
1:A0:55:HIS:O	1:A0:194:SER:HA	2.21	0.40
1:BF:55:HIS:O	1:BF:194:SER:HA	2.21	0.40
1:A3:55:HIS:O	1:A3:194:SER:HA	2.21	0.40
1:A7:24:MET:O	1:A7:25:HIS:HB2	2.21	0.40
1:AA:24:MET:O	1:AA:25:HIS:HB2	2.21	0.40
1:AF:24:MET:O	1:AF:25:HIS:HB2	2.21	0.40
1:BG:24:MET:O	1:BG:25:HIS:HB2	2.21	0.40
1:AI:7:ASP:O	1:AI:8:GLY:C	2.59	0.40
2:C1:77:HIS:HE1	2:C1:144:GLU:HG2	1.84	0.40
1:BH:93:THR:O	1:BH:95:SER:N	2.53	0.40
1:A5:20:SER:HA	1:A5:21:PRO:HD3	1.92	0.40
1:AF:7:ASP:O	1:AF:8:GLY:C	2.59	0.40
2:CT:64:PHE:N	2:CT:64:PHE:CD1	2.90	0.40
2:CC:64:PHE:CD1	2:CC:64:PHE:N	2.90	0.40
1:AU:234:LYS:HD3	1:AU:234:LYS:HA	1.89	0.40
1:AG:7:ASP:O	1:AG:8:GLY:C	2.59	0.40
2:CI:216:ALA:HA	2:CI:217:PRO:HD3	1.78	0.40
2:CD:117:SER:HB3	3:D4:192:THR:CG2	155.58	0.40
2:CO:117:SER:HB3	3:DP:192:THR:CG2	2.47	0.40
2:CQ:215:VAL:HG12	2:CQ:216:ALA:N	2.36	0.40
2:CB:215:VAL:HG12	2:CB:216:ALA:N	2.36	0.40
3:EA:64:VAL:HG13	3:EA:120:PHE:HE1	1.85	0.40
1:AG:17:HIS:O	1:AG:19:LEU:N	2.55	0.40
1:AH:17:HIS:O	1:AH:19:LEU:N	2.55	0.40
1:AK:17:HIS:O	1:AK:19:LEU:N	2.55	0.40
3:DG:103:SER:OG	3:DG:213:ASP:OD2	2.39	0.40
3:DO:101:ARG:HH12	3:DO:165:ASP:HB3	1.84	0.40
3:DS:100:TYR:HA	3:DS:215:SER:O	2.21	0.40
3:D5:160:TYR:CD1	3:D5:160:TYR:C	2.94	0.40
3:EC:100:TYR:HA	3:EC:215:SER:O	2.21	0.40
3:DU:160:TYR:CD1	3:DU:160:TYR:C	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CQ:48:SER:N	3:DR:160:TYR:O	2.52	0.40
3:D7:160:TYR:C	3:D7:160:TYR:CD1	2.94	0.40
1:A8:199:SER:C	1:A8:201:ALA:H	2.25	0.40
1:A9:38:PHE:CE2	1:A9:68:TRP:HB2	2.56	0.40
1:AB:66:LEU:O	1:AB:68:TRP:N	2.55	0.40
1:AC:199:SER:C	1:AC:201:ALA:H	2.25	0.40
1:AH:40:VAL:HG13	1:AH:211:TYR:HD1	1.86	0.40
1:AJ:42:THR:O	1:AJ:42:THR:CG2	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:AM:146:ILE:HD13	1:AM:146:ILE:HG21	1.75	0.40
1:AO:199:SER:C	1:AO:201:ALA:H	2.24	0.40
1:AR:82:LEU:HG	1:AR:83:GLU:H	1.86	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:AW:82:LEU:HG	1:AW:83:GLU:H	1.86	0.40
1:BB:101:PHE:CD2	1:BB:143:VAL:CG1	2.91	0.40
1:BB:83:GLU:C	1:BB:84:LEU:HD12	2.41	0.40
1:BD:38:PHE:CE2	1:BD:68:TRP:HB2	2.56	0.40
1:BE:41:GLU:OE2	1:BE:211:TYR:OH	2.39	0.40
1:BF:101:PHE:O	1:BF:199:SER:OG	2.33	0.40
1:AH:140:PRO:HB3	3:DJ:25:LEU:HB3	41.39	0.40
1:AQ:140:PRO:HB3	3:DQ:25:LEU:HB3	2.03	0.40
3:DP:3:ILE:O	3:DT:6:VAL:HG12	2.22	0.40
3:DU:18:VAL:O	3:DU:20:ASP:N	2.55	0.40
3:EB:18:VAL:O	3:EB:20:ASP:N	2.55	0.40
3:DC:27:PRO:CB	4:FC:30:TYR:HA	2.51	0.40
3:EE:43:PHE:O	3:EE:44:ILE:C	2.60	0.40
3:DD:43:PHE:O	3:DD:44:ILE:C	2.60	0.40
3:EB:45:ASP:O	3:EB:49:GLN:HG2	2.22	0.40
1:A3:38:PHE:CE2	1:A3:68:TRP:HB2	2.56	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:A7:82:LEU:HG	1:A7:83:GLU:H	1.86	0.40
3:D4:18:VAL:O	3:D4:20:ASP:N	2.55	0.40
1:AV:40:VAL:HG13	1:AV:211:TYR:HD1	1.86	0.40
1:A3:140:PRO:HB3	3:D4:25:LEU:HB3	2.03	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
1:A0:140:PRO:HB3	3:D1:25:LEU:HB3	2.03	0.40
1:A1:83:GLU:C	1:A1:84:LEU:HD12	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:38:PHE:CD2	1:A2:68:TRP:HB2	2.56	0.40
1:A2:83:GLU:C	1:A2:84:LEU:HD12	2.41	0.40
1:AY:83:GLU:C	1:AY:84:LEU:HD12	2.41	0.40
1:A6:175:GLY:O	3:D8:176:VAL:HG12	2.22	0.40
1:AG:175:GLY:O	3:DE:176:VAL:HG12	157.17	0.40
1:A0:175:GLY:N	1:A0:183:THR:O	2.52	0.40
1:A6:40:VAL:HG13	1:A6:211:TYR:HD1	1.86	0.40
1:BA:164:TRP:HE1	1:BA:187:LEU:CD1	2.28	0.40
2:CU:208:THR:O	2:CU:209:VAL:CG2	2.69	0.40
1:AX:175:GLY:O	3:DU:176:VAL:HG12	2.21	0.40
1:AI:172:ASN:OD1	1:AI:184:TYR:OH	2.27	0.40
2:CH:139:ALA:O	2:CH:140:LEU:HB2	2.21	0.40
2:CJ:139:ALA:O	2:CJ:140:LEU:HB2	2.21	0.40
1:AL:184:TYR:CE2	2:CL:139:ALA:CB	3.03	0.40
1:AJ:184:TYR:HE2	2:CL:139:ALA:HB2	264.93	0.40
2:CN:139:ALA:O	2:CN:140:LEU:HB2	2.21	0.40
1:AP:115:THR:HG23	1:AP:133:LEU:N	2.25	0.40
1:AO:103:TRP:CZ2	1:AS:208:TYR:CE2	117.28	0.40
1:BG:113:THR:HG22	1:BG:114:LYS:N	2.36	0.40
2:CO:56:PRO:C	2:CO:57:THR:O	2.59	0.40
1:BI:113:THR:HG22	1:BI:114:LYS:N	2.36	0.40
2:C1:56:PRO:C	2:C1:57:THR:O	2.59	0.40
1:A0:113:THR:HG22	1:A0:114:LYS:N	2.36	0.40
1:A2:48:LEU:O	1:A2:131:GLN:HG2	2.21	0.40
2:CQ:160:HIS:N	2:CQ:160:HIS:ND1	2.69	0.40
1:A8:113:THR:HG22	1:A8:114:LYS:N	2.36	0.40
2:CH:160:HIS:N	2:CH:160:HIS:ND1	2.70	0.40
1:BA:172:ASN:OD1	1:BA:184:TYR:OH	2.27	0.40
2:CY:149:ALA:O	2:CY:152:TYR:CD2	2.75	0.40
2:C8:160:HIS:ND1	2:C8:160:HIS:N	2.69	0.40
2:CF:149:ALA:O	2:CF:152:TYR:CD2	2.74	0.40
2:CU:152:TYR:HB3	2:CU:197:LEU:CD2	2.51	0.40
2:C6:15:GLU:CB	2:C6:29:SER:HB2	2.52	0.40
2:CP:15:GLU:CB	2:CP:29:SER:HB2	2.52	0.40
3:DX:152:SER:O	3:DX:153:ALA:HB2	2.21	0.40
2:CC:28:GLY:O	2:CC:168:ASN:HB2	2.21	0.40
2:CH:15:GLU:CB	2:CH:29:SER:HB2	2.52	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:AI:75:CYS:CB	1:AI:218:MET:SD	3.03	0.40
1:AK:220:CYS:HA	1:AK:221:PRO:HD2	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:221:PRO:HA	3:DE:40:PHE:HE2	80.46	0.40
1:BD:221:PRO:HA	3:DS:40:PHE:HE2	145.51	0.40
2:CE:149:ALA:O	2:CE:152:TYR:CD2	2.75	0.40
2:CR:149:ALA:O	2:CR:152:TYR:CD2	2.74	0.40
2:CA:153:GLN:HE22	3:DA:55:SER:N	2.19	0.40
2:CW:149:ALA:O	2:CW:152:TYR:CD2	2.74	0.40
2:CK:149:ALA:O	2:CK:152:TYR:CD2	2.74	0.40
2:C1:28:GLY:O	2:C1:168:ASN:HB2	2.21	0.40
1:AF:221:PRO:HA	3:DH:40:PHE:HE2	80.46	0.40
2:CA:15:GLU:CB	2:CA:29:SER:HB2	2.52	0.40
2:CC:149:ALA:O	2:CC:152:TYR:CD2	2.75	0.40
2:C7:153:GLN:HE22	3:D7:55:SER:N	2.19	0.40
2:CB:15:GLU:CB	2:CB:29:SER:HB2	2.52	0.40
1:BC:221:PRO:HA	3:DR:40:PHE:HE2	141.24	0.40
2:C0:28:GLY:O	2:C0:168:ASN:HB2	2.20	0.40
2:CE:15:GLU:CB	2:CE:29:SER:HB2	2.52	0.40
2:CR:15:GLU:CB	2:CR:29:SER:HB2	2.52	0.40
1:BH:220:CYS:HA	1:BH:221:PRO:HD2	1.82	0.40
2:C2:28:GLY:O	2:C2:168:ASN:HB2	2.20	0.40
1:A7:75:CYS:CB	1:A7:218:MET:SD	3.03	0.40
2:C6:149:ALA:O	2:C6:152:TYR:CD2	2.74	0.40
2:C0:149:ALA:O	2:C0:152:TYR:CD2	2.74	0.40
2:CY:15:GLU:CB	2:CY:29:SER:HB2	2.52	0.40
1:AN:160:TYR:OH	1:AN:167:VAL:HG23	2.21	0.40
3:DL:31:VAL:CB	4:FL:34:ILE:O	2.69	0.40
1:AK:168:PRO:HB3	2:CK:180:PRO: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:AW:168:PRO:HB3	2:CX:180:PRO:HB3	2.03	0.40
1:BA:168:PRO:HB3	2:CP:180:PRO:HB3	103.72	0.40
1:A0:174:TRP:NE1	2:C1:137:GLU:OE2	2.53	0.40
2:CZ:69:TRP:CZ3	2:CZ:124:LEU:HD21	2.56	0.40
1:A6:168:PRO:HB3	2:C7:180:PRO:HB3	2.03	0.40
1:A6:160:TYR:OH	1:A6:167:VAL:HG23	2.21	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
3:D4:31:VAL:CB	4:F4:34:ILE:O	2.69	0.40
1:AR:184:TYR:HE2	2:CR:139:ALA:HB2	1.86	0.40
1:AZ:219:TYR:HD2	3:D0:39:ARG:HB2	1.79	0.40
1:AA:62:SER:HB2	1:AA:73:ASN:ND2	2.27	0.40
1:A1:239:PHE:CD2	3:D2:226:GLN:NE2	2.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:43:LEU:N	1:AC:43:LEU:CD2	2.74	0.40
3:EC:29:VAL:HG13	3:ED:218:HIS:HE1	1.87	0.40
3:DU:29:VAL:HG13	3:DV:218:HIS:HE1	1.87	0.40
1:A1:43:LEU:H	1:A1:43:LEU:HD23	1.81	0.40
3:DX:29:VAL:HG13	3:DY:218:HIS:HE1	1.87	0.40
3:DC:29:VAL:HG13	3:DD:218:HIS:HE1	1.87	0.40
1:AF:108:PRO:O	1:AG:242:ASN:ND2	2.54	0.40
1:AK:241:THR:CG2	1:AO:110:GLY:O	2.69	0.40
1:A8:110:GLY:O	1:A9:241:THR:CG2	2.69	0.40
1:A8:108:PRO:O	1:A9:242:ASN:ND2	2.54	0.40
1:A1:110:GLY:O	1:A2:241:THR:CG2	2.69	0.40
1:AP:242:ASN:ND2	1:AS:108:PRO:O	2.54	0.40
1:AY:108:PRO:O	1:AZ:242:ASN:ND2	2.54	0.40
1:BB:108:PRO:O	1:BC:242:ASN:ND2	2.54	0.40
3:ED:115:ALA:CB	3:ED:194:THR:OG1	2.67	0.40
2:CC:166:ARG:O	2:CC:166:ARG:HG3	2.22	0.40
2:CD:166:ARG:HG3	2:CD:166:ARG:O	2.22	0.40
2:CN:166:ARG:HG3	2:CN:166:ARG:O	2.22	0.40
2:C4:23:ILE:CD1	2:C4:23:ILE:N	2.81	0.40
3:DB:121:LEU:O	3:DB:186:TYR:N	2.39	0.40
3:DE:47:ALA:HB2	3:DE:89:TYR:CD2	2.56	0.40
3:DI:47:ALA:HB2	3:DI:89:TYR:CD2	2.56	0.40
1:AO:224:ILE:CD1	3:DO:89:TYR:CE1	3.04	0.40
1:AD:224:ILE:CD1	3:DF:89:TYR:CE1	112.04	0.40
3:DD:47:ALA:HB2	3:DD:89:TYR:CD2	2.56	0.40
1:AJ:224:ILE:HD11	3:DJ:89:TYR:CE1	2.55	0.40
1:BI:224:ILE:HD11	3:EE:89:TYR:CE1	2.55	0.40
1:A4:224:ILE:CD1	3:D5:89:TYR:CE1	3.04	0.40
3:DL:169:VAL:O	3:DL:169:VAL:CG1	2.70	0.40
1:BE:224:ILE:CD1	3:EA:89:TYR:CE1	3.04	0.40
3:DJ:169:VAL:O	3:DJ:169:VAL:CG1	2.69	0.40
3:D7:169:VAL:O	3:D7:169:VAL:CG1	2.69	0.40
3:DU:169:VAL:O	3:DU:169:VAL:CG1	2.69	0.40
1:BG:132:GLN:OE1	1:BH:66:LEU:HD21	2.20	0.40
1:BG:55:HIS:O	1:BG:194:SER:HA	2.21	0.40
1:AL:55:HIS:O	1:AL:194:SER:HA	2.21	0.40
1:AF:55:HIS:O	1:AF:194:SER:HA	2.22	0.40
1:AD:107:PHE:CE1	1:AD:196:LEU:HB2	2.55	0.40
1:A2:132:GLN:OE1	1:AY:66:LEU:HD21	2.20	0.40
1:AK:24:MET:O	1:AK:25:HIS:HB2	2.21	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:AS:24:MET:O	1:AS:25:HIS:HB2	2.21	0.40
1:A2:24:MET:O	1:A2:25:HIS:HB2	2.21	0.40
1:BF:24:MET:O	1:BF:25:HIS:HB2	2.21	0.40
4:F9:32:ASN:HB3	4:F9:33:SER:H	1.58	0.40
1:BE:92:THR:HB	1:BE:93:THR:H	1.62	0.40
1:A2:93:THR:O	1:A2:95:SER:N	2.53	0.40
1:BE:225:PRO:HA	1:BE:226:PRO:HD2	1.88	0.40
2:CU:64:PHE:CD1	2:CU:64:PHE:N	2.90	0.40
2:CF:64:PHE:CD1	2:CF:64:PHE:N	2.90	0.40
2:CS:175:MET:H	2:CS:175:MET:HG2	1.79	0.40
1:AP:7:ASP:O	1:AP:8:GLY:C	2.59	0.40
1:AQ:7:ASP:O	1:AQ:8:GLY:C	2.59	0.40
2:C5:215:VAL:HG12	2:C5:216:ALA:N	2.36	0.40
2:CA:215:VAL:HG12	2:CA:216:ALA:N	2.36	0.40
2:CF:117:SER:HB3	3:D6:192:THR:CG2	2.48	0.40
2:C4:215:VAL:HG12	2:C4:216:ALA:N	2.36	0.40
1:A9:17:HIS:O	1:A9:19:LEU:N	2.55	0.40
1:AC:17:HIS:O	1:AC:19:LEU:N	2.55	0.40
1:AD:17:HIS:O	1:AD:19:LEU:N	2.55	0.40
2:CT:49:ASP:HA	2:CT:50:PRO:HD2	1.80	0.40
3:DB:160:TYR:C	3:DB:160:TYR:CD1	2.94	0.40
3:DC:103:SER:OG	3:DC:213:ASP:OD2	2.39	0.40
3:DG:160:TYR:C	3:DG:160:TYR:CD1	2.94	0.40
3:DN:160:TYR:C	3:DN:160:TYR:CD1	2.94	0.40
3:D3:103:SER:OG	3:D3:213:ASP:OD2	2.39	0.40
3:DQ:103:SER:OG	3:DQ:213:ASP:OD2	2.39	0.40
1:AU:17:HIS:O	1:AU:19:LEU:N	2.55	0.40
1:BI:17:HIS:O	1:BI:19:LEU:N	2.55	0.40
3:EE:160:TYR:CD1	3:EE:160:TYR:C	2.94	0.40
3:DZ:100:TYR:HA	3:DZ:215:SER:O	2.21	0.40
1:AX:17:HIS:O	1:AX:19:LEU:N	2.55	0.40
1:A0:17:HIS:O	1:A0:19:LEU:N	2.55	0.40
3:D8:100:TYR:HA	3:D8:215:SER:O	2.21	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
1:A9:199:SER:C	1:A9:201:ALA:H	2.25	0.40
1:A9:41:GLU:OE2	1:A9:211:TYR:OH	2.39	0.40
1:AB:140:PRO:HB3	3:DB:25:LEU:HB3	2.03	0.40
1:AD:199:SER:C	1:AD:201:ALA:H	2.25	0.40
1:AD:40:VAL:HG13	1:AD:211:TYR:HD1	1.86	0.40
1:AF:41:GLU:OE2	1:AF:211:TYR:OH	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:38:PHE:CD2	1:AJ:68:TRP:HB2	2.56	0.40
1:AM:83:GLU:C	1:AM:84:LEU:HD12	2.41	0.40
1:AN:121:LEU:HD21	1:AO:206:GLY:CA	2.47	0.40
1:AO:121:LEU:HD21	1:AS:206:GLY:CA	122.99	0.40
1:AO:88:PHE:CA	1:AO:207:CYS:HA	2.48	0.40
1:AP:83:GLU:C	1:AP:84:LEU:HD12	2.41	0.40
1:AR:199:SER:C	1:AR:201:ALA:H	2.25	0.40
1:AU:42:THR:O	1:AU:42:THR:CG2	2.69	0.40
1:AW:140:PRO:HB3	3:DX:25:LEU:HB3	2.02	0.40
1:AW:66:LEU:O	1:AW:68:TRP:N	2.55	0.40
1:AX:82:LEU:HG	1:AX:83:GLU:H	1.86	0.40
1:BA:66:LEU:O	1:BA:68:TRP:N	2.55	0.40
1:BD:87:GLN:HA	1:BD:153:ALA:HB2	2.02	0.40
1:BE:199:SER:C	1:BE:201:ALA:H	2.24	0.40
1:BF:40:VAL:HG13	1:BF:211:TYR:HD1	1.86	0.40
1:BH:121:LEU:HD21	1:BI:206:GLY:CA	2.47	0.40
1:BI:199:SER:C	1:BI:201:ALA:H	2.25	0.40
1:BI:66:LEU:O	1:BI:68:TRP:N	2.55	0.40
3:DC:21:ASN:HB2	3:DC:22:SER:H	1.74	0.40
3:DC:6:VAL:HG12	3:DD:3:ILE:O	2.22	0.40
3:DF:3:ILE:O	3:DJ:6:VAL:HG12	2.22	0.40
3:DJ:8:VAL:CG1	3:DJ:9:PRO:HD2	2.39	0.40
3:DK:6:VAL:HG12	3:DL:3:ILE:O	2.22	0.40
3:DL:18:VAL:O	3:DL:20:ASP:N	2.55	0.40
3:DK:3:ILE:O	3:DO:6:VAL:HG12	2.22	0.40
3:DT:23:THR:HA	3:DT:24:PRO:HD3	1.89	0.40
3:DX:6:VAL:HG12	3:DY:3:ILE:O	2.22	0.40
3:EC:18:VAL:O	3:EC:20:ASP:N	2.55	0.40
3:DG:45:ASP:O	3:DG:49:GLN:HG2	2.22	0.40
3:DP:43:PHE:O	3:DP:44:ILE:C	2.60	0.40
3:DW:45:ASP:O	3:DW:49:GLN:HG2	2.22	0.40
3:DJ:45:ASP:O	3:DJ:49:GLN:HG2	2.22	0.40
1:A7:42:THR:O	1:A7:42:THR:CG2	2.69	0.40
3:D5:6:VAL:HG12	3:D6:3:ILE:O	2.22	0.40
1:BH:38:PHE:CD2	1:BH:68:TRP:HB2	2.56	0.40
1:A4:42:THR:CG2	1:A4:42:THR:O	2.69	0.40
1:A4:38:PHE:CD2	1:A4:68:TRP:HB2	2.56	0.40
1:AL:112:PRO:CG	3:DM:223:PRO:HD3	2.50	0.40
3:DR:223:PRO:HB2	3:DR:224:ASP:H	1.71	0.40
1:A1:195:ILE:HD13	1:A1:209:LEU:HD21	2.04	0.40
1:A1:38:PHE:CD2	1:A1:68:TRP:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:66:LEU:O	1:A1:68:TRP:N	2.55	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
1:AJ:175:GLY:O	3:DF:176:VAL:HG12	2.22	0.40
1:AK:175:GLY:O	3:DL:176:VAL:HG12	2.21	0.40
1:A8:175:GLY:O	3:DA:176:VAL:HG12	222.68	0.40
1:A4:175:GLY:O	3:D6:176:VAL:HG12	2.21	0.40
3:D1:223:PRO:HB2	3:D1:224:ASP:H	1.71	0.40
1:A1:175:GLY:O	3:D3:176:VAL:HG12	2.21	0.40
1:AV:175:GLY:O	3:DX:176:VAL:HG12	2.21	0.40
1:BG:172:ASN:OD1	1:BG:184:TYR:OH	2.27	0.40
2:CV:139:ALA:O	2:CV:140:LEU:HB2	2.21	0.40
1:AC:184:TYR:CE2	2:CC:139:ALA:CB	3.03	0.40
1:AO:184:TYR:HE2	2:CO:139:ALA:HB3	1.84	0.40
1:AI:184:TYR:HE2	2:CI:139:ALA:HB2	1.86	0.40
1:AB:174:TRP:CD1	1:AB:184:TYR:HA	2.56	0.40
1:AD:184:TYR:HE2	2:CD:139:ALA:HB2	1.86	0.40
1:AF:174:TRP:CD1	1:AF:184:TYR:HA	2.56	0.40
1:A8:208:TYR:CE2	1:AB:103:TRP:CZ2	227.96	0.40
1:AO:208:TYR:CE2	1:AR:103:TRP:CZ2	143.87	0.40
2:CJ:56:PRO:C	2:CJ:57:THR:O	2.59	0.40
2:C8:56:PRO:C	2:C8:57:THR:O	2.59	0.40
2:CO:160:HIS:ND1	2:CO:160:HIS:N	2.69	0.40
1:A0:49:THR:CG2	1:A0:50:GLY:N	2.83	0.40
1:A2:113:THR:HG22	1:A2:114:LYS:N	2.36	0.40
1:A9:113:THR:HG22	1:A9:114:LYS:N	2.36	0.40
1:BH:103:TRP:CZ2	1:BI:208:TYR:CE2	3.06	0.40
2:C2:56:PRO:C	2:C2:57:THR:O	2.59	0.40
2:CA:160:HIS:ND1	2:CA:160:HIS:N	2.70	0.40
1:AY:49:THR:CG2	1:AY:50:GLY:N	2.83	0.40
1:AQ:113:THR:HG22	1:AQ:114:LYS:N	2.36	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:CV:149:ALA:O	2:CV:152:TYR:CD2	2.74	0.40
2:CD:15:GLU:CB	2:CD:29:SER:HB2	2.52	0.40
2:C3:152:TYR:HB3	2:C3:197:LEU:CD2	2.51	0.40
2:CO:15:GLU:CB	2:CO:29:SER:HB2	2.52	0.40
2:CK:153:GLN:HE22	3:DK:55:SER:N	2.19	0.40
1:AB:76:THR:CB	1:AB:220:CYS:HB2	2.49	0.40
1:AN:170:PHE:HD2	1:AN:222:ARG:NH1	2.17	0.40
2:C7:149:ALA:O	2:C7:152:TYR:CD2	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:152:TYR:HB3	2:C7:197:LEU:CD2	2.51	0.40
2:CV:15:GLU:CB	2:CV:29:SER:HB2	2.52	0.40
2:CF:15:GLU:CB	2:CF:29:SER:HB2	2.52	0.40
2:CS:15:GLU:CB	2:CS:29:SER:HB2	2.52	0.40
3:D8:152:SER:O	3:D8:153:ALA:HB2	2.21	0.40
2:C2:153:GLN:NE2	3:D2:53:PHE:O	2.50	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
1:AU:221:PRO:HA	3:DV:40:PHE:HE2	1.87	0.40
2:C3:15:GLU:CB	2:C3:29:SER:HB2	2.52	0.40
2:C2:88:LEU:C	2:C2:90:LYS:H	2.23	0.40
1:AF:219:TYR:HD2	3:DH:39:ARG:HB2	74.53	0.40
1:AK:219:TYR:CE2	3:DM:39:ARG:HD2	70.31	0.40
3:DP:31:VAL:CB	4:FP:34:ILE:O	2.69	0.40
1:AH:62:SER:HB2	1:AH:73:ASN:ND2	2.27	0.40
3:EC:75:GLN:NE2	3:EC:184:GLN:OE1	2.49	0.40
2:C5:69:TRP:CZ3	2:C5:124:LEU:HD21	2.56	0.40
2:C2:69:TRP:CZ3	2:C2:124:LEU:HD21	2.56	0.40
2:C3:69:TRP:CZ3	2:C3:124:LEU:HD21	2.56	0.40
2:CC:69:TRP:CD1	2:CC:70:PRO:N	2.89	0.40
2:CY:69:TRP:CD1	2:CY:70:PRO:N	2.89	0.40
1:A5:168:PRO:HB3	2:C6:180:PRO:HB3	2.03	0.40
2:CX:69:TRP:CD1	2:CX:70:PRO:N	2.89	0.40
1:AP:43:LEU:HD23	1:AP:43:LEU:H	1.81	0.40
1:AR:43:LEU:H	1:AR:43:LEU:HD23	1.81	0.40
3:DM:29:VAL:HG13	3:DN:218:HIS:HE1	1.87	0.40
3:DF:218:HIS:HE1	3:DJ:29:VAL:HG13	1.87	0.40
3:ED:217:ARG:O	3:ED:218:HIS:HB2	2.22	0.40
2:C6:54:LEU:HD23	2:C6:54:LEU:HA	1.84	0.40
3:D7:29:VAL:HG13	3:D8:218:HIS:HE1	1.87	0.40
2:C0:54:LEU:HA	2:C0:54:LEU:HD23	1.84	0.40
3:EE:217:ARG:O	3:EE:218:HIS:HB2	2.22	0.40
3:DK:29:VAL:HG13	3:DL:218:HIS:HE1	1.86	0.40
3:DS:217:ARG:O	3:DS:218:HIS:HB2	2.22	0.40
1:BC:110:GLY:O	1:BD:241:THR:CG2	2.70	0.40
1:AV:108:PRO:O	1:AW:242:ASN:ND2	2.54	0.40
1:AI:191:HIS:HB2	1:AI:192:PHE:H	1.71	0.40
3:DA:29:VAL:HG13	3:DB:218:HIS:HE1	1.87	0.40
1:AM:242:ASN:ND2	1:BD:108:PRO:O	245.67	0.40
1:BA:110:GLY:O	1:BB:241:THR:CG2	2.70	0.40
1:BE:241:THR:CG2	1:BI:110:GLY:O	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:108:PRO:O	1:AN:242:ASN:ND2	140.18	0.40
1:A3:110:GLY:O	1:A4:241:THR:CG2	2.69	0.40
1:AT:110:GLY:O	1:AU:241:THR:CG2	2.70	0.40
3:DE:138:ALA:O	3:DE:141:CYS:SG	2.78	0.40
1:BE:108:PRO:O	1:BF:242:ASN:ND2	2.54	0.40
3:DR:115:ALA:CB	3:DR:194:THR:OG1	2.67	0.40
3:DM:115:ALA:CB	3:DM:194:THR:OG1	2.67	0.40
2:CR:166:ARG:O	2:CR:166:ARG:HG3	2.22	0.40
2:CU:166:ARG:O	2:CU:166:ARG:HG3	2.22	0.40
2:CB:166:ARG:O	2:CB:166:ARG:HG3	2.22	0.40
2:CP:166:ARG:HG3	2:CP:166:ARG:O	2.22	0.40
2:CV:23:ILE:N	2:CV:23:ILE:CD1	2.81	0.40
2:CB:23:ILE:CD1	2:CB:23:ILE:N	2.81	0.40
1:AO:6:GLU:O	2:CS:162:LEU:N	128.98	0.40
1:AC:224:ILE:CD1	3:DE:89:TYR:CE1	84.32	0.40
1:AE:224:ILE:CD1	3:DG:89:TYR:CE1	115.62	0.40
1:AI:224:ILE:CD1	3:DK:89:TYR:CE1	253.04	0.40
1:AC:224:ILE:CG1	3:DE:89:TYR:CE1	84.37	0.40
1:AM:224:ILE:CD1	3:DO:89:TYR:CE1	84.32	0.40
1:BD:224:ILE:HD11	3:DS:89:TYR:CE1	151.19	0.40
3:D4:47:ALA:HB2	3:D4:89:TYR:CD2	2.56	0.40
3:DU:47:ALA:HB2	3:DU:89:TYR:CD2	2.56	0.40
1:A6:224:ILE:CG1	3:D7:89:TYR:CE1	3.05	0.40
1:BC:224:ILE:CD1	3:DR:89:TYR:CE1	142.56	0.40
1:A0:224:ILE:CD1	3:D1:89:TYR:CE1	3.04	0.40
2:CS:36:TYR:CE2	2:CS:130:PRO:CG	2.98	0.40
3:DD:169:VAL:CG1	3:DD:169:VAL:O	2.70	0.40
3:DB:169:VAL:O	3:DB:169:VAL:CG1	2.69	0.40
3:D5:169:VAL:O	3:D5:169:VAL:CG1	2.69	0.40
1:BG:107:PHE:CE1	1:BG:196:LEU:HB2	2.55	0.40
1:AW:55:HIS:O	1:AW:194:SER:HA	2.21	0.40
2:CF:87:LYS:HG3	2:CF:142:TRP:CG	2.57	0.40
2:CN:87:LYS:HG3	2:CN:142:TRP:CG	2.57	0.40
1:BI:24:MET:O	1:BI:25:HIS:HB2	2.21	0.40
1:AH:24:MET:O	1:AH:25:HIS:HB2	2.21	0.40
1:AD:24:MET:O	1:AD:25:HIS:HB2	2.21	0.40
4:FQ:31:GLN:HB3	4:FQ:32:ASN:H	1.72	0.40
1:AJ:92:THR:HB	1:AJ:93:THR:H	1.62	0.40
3:DP:36:VAL:HA	3:DP:37:PRO:HD3	1.53	0.40
4:FE:32:ASN:HB3	4:FE:33:SER:H	1.58	0.40
2:C3:64:PHE:N	2:C3:64:PHE:CD1	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:243:ILE:HG13	1:A3:243:ILE:H	1.70	0.40
1:AF:234:LYS:HD3	1:AF:234:LYS:HA	1.89	0.40
2:CO:64:PHE:N	2:CO:64:PHE:CD1	2.90	0.40
2:CX:64:PHE:CD1	2:CX:64:PHE:N	2.90	0.40
2:C5:64:PHE:CD1	2:C5:64:PHE:N	2.90	0.40
1:A5:243:ILE:HG13	1:A5:243:ILE:H	1.70	0.40
2:CR:115:ASN:HD22	3:DI:190:ALA:C	164.03	0.40
3:DW:64:VAL:HG13	3:DW:120:PHE:HE1	1.86	0.40
3:D6:64:VAL:HG13	3:D6:120:PHE:HE1	1.86	0.40
1:A8:17:HIS:O	1:A8:19:LEU:N	2.55	0.40
1:AJ:17:HIS:O	1:AJ:19:LEU:N	2.55	0.40
1:AM:17:HIS:O	1:AM:19:LEU:N	2.55	0.40
1:AO:17:HIS:O	1:AO:19:LEU:N	2.55	0.40
1:BD:17:HIS:O	1:BD:19:LEU:N	2.55	0.40
2:CM:49:ASP:HA	2:CM:50:PRO:HD2	1.80	0.40
3:DA:103:SER:OG	3:DA:213:ASP:OD2	2.39	0.40
3:DY:160:TYR:CD1	3:DY:160:TYR:C	2.94	0.40
3:EA:100:TYR:HA	3:EA:215:SER:O	2.21	0.40
3:EA:160:TYR:C	3:EA:160:TYR:CD1	2.94	0.40
1:AT:17:HIS:O	1:AT:19:LEU:N	2.55	0.40
1:AV:17:HIS:O	1:AV:19:LEU:N	2.55	0.40
2:C0:46:THR:CG2	3:D1:165:ASP:HA	2.38	0.40
1:AR:17:HIS:O	1:AR:19:LEU:N	2.55	0.40
3:D2:103:SER:OG	3:D2:213:ASP:OD2	2.39	0.40
1:A8:82:LEU:HG	1:A8:83:GLU:H	1.86	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	41.39	0.40
1:AB:88:PHE:CA	1:AB:207:CYS:HA	2.48	0.40
1:AB:41:GLU:OE2	1:AB:211:TYR:OH	2.39	0.40
1:AC:82:LEU:HG	1:AC:83:GLU:H	1.86	0.40
1:AE:40:VAL:HG13	1:AE:211:TYR:HD1	1.87	0.40
1:AG:199:SER:C	1:AG:201:ALA:H	2.25	0.40
1:AI:41:GLU:OE2	1:AI:211:TYR:OH	2.40	0.40
1:AJ:83:GLU:HA	1:AJ:156:PHE:O	2.22	0.40
1:AL:83:GLU:C	1:AL:84:LEU:HD12	2.41	0.40
1:AN:83:GLU:HA	1:AN:156:PHE:O	2.22	0.40
1:AN:199:SER:C	1:AN:201:ALA:H	2.25	0.40
1:AN:40:VAL:HG13	1:AN:211:TYR:HD1	1.86	0.40
1:AP:38:PHE:CE2	1:AP:68:TRP:HB2	2.56	0.40
1:AQ:101:PHE:CD2	1:AQ:143:VAL:CG1	2.91	0.40
1:AS:40:VAL:HG13	1:AS:211:TYR:HD1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:BD:83:GLU:C	1:BD:84:LEU:HD12	2.41	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:BF:121:LEU:HD21	1:BG:206:GLY:CA	2.47	0.40
1:BI:88:PHE:CA	1:BI:207:CYS:HA	2.48	0.40
1:BI:83:GLU:HA	1:BI:156:PHE:O	2.22	0.40
3:DB:6:VAL:HG12	3:DC:3:ILE:O	2.22	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:DJ:18:VAL:O	3:DJ:20:ASP:N	2.55	0.40
3:DR:6:VAL:HG12	3:DS:3:ILE:O	2.22	0.40
3:DS:18:VAL:O	3:DS:20:ASP:N	2.55	0.40
3:DS:6:VAL:HG12	3:DT:3:ILE:O	2.22	0.40
1:AS:140:PRO:HB3	3:DT:25:LEU:HB3	2.03	0.40
1:AV:140:PRO:HB3	3:DW:25:LEU:HB3	2.03	0.40
1:AX:140:PRO:HB3	3:DY:25:LEU:HB3	2.03	0.40
3:EB:6:VAL:HG12	3:EC:3:ILE:O	2.22	0.40
3:DO:27:PRO:CB	4:FO:30:TYR:HA	2.51	0.40
3:DC:43:PHE:O	3:DC:44:ILE:C	2.60	0.40
3:DP:45:ASP:O	3:DP:49:GLN:HG2	2.22	0.40
3:D4:45:ASP:O	3:D4:49:GLN:HG2	2.22	0.40
1:A7:41:GLU:OE2	1:A7:211:TYR:OH	2.39	0.40
3:DY:45:ASP:O	3:DY:49:GLN:HG2	2.22	0.40
3:D2:45:ASP:O	3:D2:49:GLN:HG2	2.22	0.40
1:AV:83:GLU:C	1:AV:84:LEU:HD12	2.41	0.40
3:DW:23:THR:HA	3:DW:24:PRO:HD3	1.89	0.40
3:ED:27:PRO:CB	4:FW:30:TYR:HA	194.17	0.40
1:A4:146:ILE:HD13	1:A4:146:ILE:HG21	1.74	0.40
1:A4:66:LEU:O	1:A4:68:TRP:N	2.55	0.40
3:DA:223:PRO:HB2	3:DA:224:ASP:H	1.71	0.40
1:AN:112:PRO:CG	3:DO:223:PRO:HD3	2.50	0.40
1:A0:40:VAL:HG13	1:A0:211:TYR:HD1	1.86	0.40
1:AY:83:GLU:HA	1:AY:156:PHE:O	2.22	0.40
1:AC:175:GLY:O	3:DF:176:VAL:HG12	136.58	0.40
1:AD:175:GLY:O	3:DG:176:VAL:HG12	109.08	0.40
1:AE:175:GLY:O	3:DA:176:VAL:HG12	2.21	0.40
1:AG:175:GLY:O	3:DH:176:VAL:HG12	2.21	0.40
1:AE:175:GLY:O	3:DH:176:VAL:HG12	137.71	0.40
1:AH:175:GLY:O	3:DK:176:VAL:HG12	256.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:175:GLY:O	3:D0:176:VAL:HG12	2.22	0.40
1:AP:175:GLY:O	3:DQ:176:VAL:HG12	2.21	0.40
1:BI:175:GLY:O	3:EA:176:VAL:HG12	2.22	0.40
1:BE:164:TRP:HE1	1:BE:187:LEU:CD1	2.28	0.40
2:CY:208:THR:O	2:CY:209:VAL:CG2	2.69	0.40
1:BG:184:TYR:HE2	2:CV:139:ALA:HB2	266.99	0.40
1:AA:172:ASN:OD1	1:AA:184:TYR:OH	2.27	0.40
1:AA:184:TYR:HE2	2:CC:139:ALA:HB2	104.84	0.40
2:CK:139:ALA:O	2:CK:140:LEU:HB2	2.21	0.40
1:AD:172:ASN:OD1	1:AD:184:TYR:OH	2.27	0.40
2:CD:139:ALA:O	2:CD:140:LEU:HB2	2.21	0.40
2:C4:80:ILE:HD13	2:C4:145:LEU:HB2	2.04	0.40
2:CC:20:GLY:CA	2:CC:56:PRO:O	2.67	0.40
2:CN:56:PRO:C	2:CN:57:THR:O	2.59	0.40
1:AD:113:THR:HG22	1:AD:114:LYS:N	2.36	0.40
2:CU:56:PRO:C	2:CU:57:THR:O	2.59	0.40
1:AW:184:TYR:CE2	2:CX:139:ALA:CB	3.03	0.40
1:AE:113:THR:HG22	1:AE:114:LYS:N	2.36	0.40
2:C7:58:LEU:HB3	2:C7:59:SER:H	1.65	0.40
2:CX:58:LEU:HB3	2:CX:59:SER:H	1.65	0.40
1:BB:103:TRP:CZ2	1:BC:208:TYR:CE2	3.06	0.40
1:AP:184:TYR:HE2	2:CP:139:ALA:HB2	1.86	0.40
2:CU:160:HIS:N	2:CU:160:HIS:ND1	2.69	0.40
2:CV:160:HIS:ND1	2:CV:160:HIS:N	2.69	0.40
2:C2:160:HIS:N	2:C2:160:HIS:ND1	2.69	0.40
2:CS:160:HIS:ND1	2:CS:160:HIS:N	2.69	0.40
2:CX:160:HIS:N	2:CX:160:HIS:ND1	2.69	0.40
2:CZ:160:HIS:ND1	2:CZ:160:HIS:N	2.70	0.40
3:DY:152:SER:O	3:DY:153:ALA:HB2	2.21	0.40
3:DX:53:PHE:N	3:DX:53:PHE:CD1	2.88	0.40
2:CG:149:ALA:O	2:CG:152:TYR:CD2	2.74	0.40
1:AG:221:PRO:HA	3:DI:40:PHE:HE2	80.46	0.40
2:CT:15:GLU:CB	2:CT:29:SER:HB2	2.52	0.40
2:C5:152:TYR:HB3	2:C5:197:LEU:CD2	2.51	0.40
3:D5:152:SER:O	3:D5:153:ALA:HB2	2.21	0.40
2:CI:15:GLU:CB	2:CI:29:SER:HB2	2.52	0.40
2:CK:15:GLU:CB	2:CK:29:SER:HB2	2.52	0.40
2:C4:152:TYR:HB3	2:C4:197:LEU:CD2	2.51	0.40
3:D4:152:SER:O	3:D4:153:ALA:HB2	2.21	0.40
1:AD:71:LEU:O	1:AD:218:MET:HE1	2.21	0.40
2:CM:15:GLU:CB	2:CM:29:SER:HB2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:170:PHE:HD2	1:BC:222:ARG:NH1	2.17	0.40
1:AY:221:PRO:HA	3:DZ:40:PHE:HE2	1.87	0.40
1:A4:221:PRO:HA	3:D5:40:PHE:HE2	1.87	0.40
2:CU:15:GLU:CB	2:CU:29:SER:HB2	2.52	0.40
1:AS:75:CYS:CB	1:AS:218:MET:SD	3.03	0.40
1:AT:76:THR:CB	1:AT:220:CYS:HB2	2.49	0.40
1:AS:184:TYR:CE2	2:CT:139:ALA:CB	3.03	0.40
1:AQ:160:TYR:OH	1:AQ:167:VAL:HG23	2.21	0.40
1:AH:219:TYR:HD2	3:DJ:39:ARG:HB2	74.53	0.40
2:CA:69:TRP:CD1	2:CA:70:PRO:N	2.89	0.40
1:A0:174:TRP:CD1	1:A0:184:TYR:HA	2.56	0.40
2:C5:83:LEU:HA	2:C5:84:PRO:HA	1.60	0.40
2:C2:139:ALA:O	2:C2:140:LEU:HB2	2.21	0.40
3:D6:75:GLN:NE2	3:D6:184:GLN:OE1	2.49	0.40
1:A4:184:TYR:CE2	2:C5:139:ALA:CB	3.03	0.40
1:BC:174:TRP:CD1	1:BC:184:TYR:HA	2.56	0.40
3:D0:31:VAL:CB	4:F0:34:ILE:O	2.69	0.40
3:D6:54:CYS:SG	3:D6:208:VAL:HG21	2.61	0.40
1:A8:239:PHE:CD2	3:D9:226:GLN:NE2	2.87	0.40
2:CQ:103:LEU:HD12	2:CQ:223:ASN:HB2	2.02	0.40
3:DH:29:VAL:HG13	3:DI:218:HIS:HE1	1.87	0.40
1:AO:108:PRO:O	1:AS:242:ASN:ND2	97.57	0.40
1:AD:108:PRO:O	1:AE:242:ASN:ND2	2.54	0.40
2:C9:20:GLY:CA	2:C9:56:PRO:O	2.67	0.40
1:AT:108:PRO:O	1:AU:242:ASN:ND2	2.54	0.40
1:AW:108:PRO:O	1:AX:242:ASN:ND2	2.54	0.40
1:BF:110:GLY:O	1:BG:241:THR:CG2	2.70	0.40
1:AY:110:GLY:O	1:AZ:241:THR:CG2	2.70	0.40
3:DZ:115:ALA:CB	3:DZ:194:THR:OG1	2.67	0.40
3:EB:115:ALA:CB	3:EB:194:THR:OG1	2.67	0.40
3:DZ:121:LEU:O	3:DZ:186:TYR:N	2.39	0.40
3:DO:121:LEU:O	3:DO:186:TYR:N	2.39	0.40
1:AM:224:ILE:CD1	3:DM:89:TYR:CE1	3.04	0.40
1:AH:224:ILE:CD1	3:DH:89:TYR:CE1	3.04	0.40
1:AN:224:ILE:CD1	3:DN:89:TYR:CE1	3.04	0.40
1:AQ:224:ILE:CG1	3:DQ:89:TYR:CE1	3.05	0.40
1:BA:224:ILE:CD1	3:DP:89:TYR:CE1	112.88	0.40
1:BH:224:ILE:CD1	3:ED:89:TYR:CE1	3.04	0.40
1:AW:224:ILE:CD1	3:DX:89:TYR:CE1	3.04	0.40
3:D2:169:VAL:O	3:D2:169:VAL:CG1	2.69	0.40
2:CG:129:VAL:HA	2:CG:130:PRO:HD3	1.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DQ:169:VAL:CG1	3:DQ:169:VAL:O	2.69	0.40
3:DN:169:VAL:CG1	3:DN:169:VAL:O	2.69	0.40
3:DH:169:VAL:CG1	3:DH:169:VAL:O	2.70	0.40
3:DK:169:VAL:O	3:DK:169:VAL:CG1	2.69	0.40
1:AH:55:HIS:O	1:AH:194:SER:HA	2.21	0.40
1:A5:55:HIS:O	1:A5:194:SER:HA	2.21	0.40
1:AP:55:HIS:O	1:AP:194:SER:HA	2.21	0.40
2:CI:87:LYS:HG3	2:CI:142:TRP:CG	2.57	0.40
2:CW:87:LYS:HG3	2:CW:142:TRP:CG	2.57	0.40
2:CV:87:LYS:HG3	2:CV:142:TRP:CG	2.57	0.40
2:CD:87:LYS:HG3	2:CD:142:TRP:CG	2.57	0.40
1:AO:24:MET:O	1:AO:25:HIS:HB2	2.21	0.40
1:AJ:24:MET:O	1:AJ:25:HIS:HB2	2.21	0.40
4:FC:31:GLN:HB3	4:FC:32:ASN:H	1.72	0.40
1:AM:92:THR:HB	1:AM:93:THR:H	1.62	0.40
1:A6:235:THR:HB	1:A6:236:ARG:H	1.65	0.40
1:AA:225:PRO:HA	1:AA:226:PRO:HD2	1.88	0.40
1:BA:234:LYS:HA	1:BA:234:LYS:HD3	1.89	0.40
1:A1:243:ILE:H	1:A1:243:ILE:HG13	1.70	0.40
2:CV:64:PHE:N	2:CV:64:PHE:CD1	2.90	0.40
2:CE:64:PHE:CD1	2:CE:64:PHE:N	2.90	0.40
2:CJ:64:PHE:CD1	2:CJ:64:PHE:N	2.89	0.40
1:AV:93:THR:O	1:AV:95:SER:N	2.53	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 5
1	A1	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0 5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A2	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	A3	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	A4	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	A5	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	A6	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	A7	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	A8	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	A9	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AA	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AB	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AC	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AD	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AE	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AF	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AG	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AH	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	AI	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	AJ	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AK	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	AL	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AM	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	AN	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AO	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AP	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AQ	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AR	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AS	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	AT	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AU	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AV	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AW	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AX	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AY	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	AZ	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	Aa	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	Ab	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	Ac	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	Ad	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	Ae	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	Af	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	Ag	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	Ah	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	Ai	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	Aj	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	Ak	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	Al	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	Am	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	An	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	Ao	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	BA	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	BB	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	BC	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	BD	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	BE	244/246 (99%)	144 (59%)	60 (25%)	40 (16%)	0	5
1	BF	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	BG	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	BH	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
1	BI	244/246 (99%)	145 (59%)	59 (24%)	40 (16%)	0	5
2	C0	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	C1	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	C2	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	C3	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	C4	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	C5	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	C6	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	C7	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	C8	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	C9	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CA	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CB	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CC	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CD	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CE	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CF	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CG	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CH	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CI	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CJ	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CK	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CL	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CM	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CN	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CO	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CP	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CQ	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CR	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CS	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CT	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CU	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CV	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CW	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CX	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	CY	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	CZ	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Ca	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cb	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cc	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cd	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Ce	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cf	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cg	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Ch	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Ci	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cj	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Ck	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cl	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cm	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cn	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Co	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cp	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cq	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cr	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cs	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Ct	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cu	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cv	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cw	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
2	Cx	154/230 (67%)	104 (68%)	33 (21%)	17 (11%)	0	11
3	D0	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	D1	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	D2	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	D3	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	D4	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	D5	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	D6	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	D7	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	D8	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	D9	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DA	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DB	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DC	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DD	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DE	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DF	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DG	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DH	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DI	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DJ	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DK	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DL	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DM	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DN	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DO	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DP	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DQ	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DR	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DS	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DT	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DU	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DV	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DW	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DX	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	DY	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	DZ	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	Da	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	Db	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	Dc	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	Dd	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	De	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	Df	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	Dg	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	Dh	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	Di	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	Dj	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	Dk	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	Di	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	Dm	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	Dn	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	Do	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	Dp	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	Dq	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	Dr	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	Ds	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	EA	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	EB	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	EC	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
3	ED	224/226 (99%)	156 (70%)	45 (20%)	23 (10%)	1	12
3	EE	224/226 (99%)	155 (69%)	46 (20%)	23 (10%)	1	12
4	F0	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	F1	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	F2	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	F3	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	F4	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	F5	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	F6	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	F7	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	F8	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	F9	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FA	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FB	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FC	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FD	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FE	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FF	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FG	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FH	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FI	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FJ	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FK	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FL	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FM	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FN	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FO	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FP	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FQ	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FR	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FS	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FT	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FU	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FV	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FW	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FX	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FY	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	FZ	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fa	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fb	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fc	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	Fd	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fe	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Ff	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fg	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fh	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fi	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fj	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fk	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fl	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fm	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fn	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fo	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fp	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fq	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fr	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fs	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Ft	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fu	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fv	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fw	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
4	Fx	20/80 (25%)	9 (45%)	7 (35%)	4 (20%)	0	3
All	All	38520/46920 (82%)	24801 (64%)	8679 (22%)	5040 (13%)	1	7

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

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
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
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

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
3	DK	128	HIS

Continued on next page...

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Mol	Chain	Res	Type
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
3	DQ	128	HIS

Continued on next page...

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Mol	Chain	Res	Type
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	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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

Continued on next page...

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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%)	174 (84%)	34 (16%)	3	20
1	A1	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	A2	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	A3	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	A4	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	A5	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	A6	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	A7	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	A8	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	A9	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AA	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AB	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AC	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AD	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AE	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AF	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AG	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AH	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AI	208/208 (100%)	173 (83%)	35 (17%)	2	19
1	AJ	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AK	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AL	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AM	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AN	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AO	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AP	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AQ	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AR	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AS	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AT	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AU	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AV	208/208 (100%)	174 (84%)	34 (16%)	3	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AW	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AX	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AY	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	AZ	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Aa	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Ab	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Ac	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Ad	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Ae	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Af	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Ag	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Ah	208/208 (100%)	173 (83%)	35 (17%)	2	19
1	Ai	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Aj	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Ak	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Al	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Am	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	An	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	Ao	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	BA	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	BB	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	BC	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	BD	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	BE	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	BF	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	BG	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	BH	208/208 (100%)	174 (84%)	34 (16%)	3	20
1	BI	208/208 (100%)	174 (84%)	34 (16%)	3	20
2	C0	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	C1	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	C2	175/204 (86%)	133 (76%)	42 (24%)	1	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	C3	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	C4	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	C5	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	C6	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	C7	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	C8	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	C9	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CA	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CB	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CC	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CD	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CE	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CF	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CG	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CH	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CI	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CJ	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CK	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CL	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CM	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CN	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CO	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CP	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CQ	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CR	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CS	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CT	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CU	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CV	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	CW	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CX	175/204 (86%)	133 (76%)	42 (24%)	1	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	CY	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	CZ	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Ca	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Cb	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Cc	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Cd	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Ce	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Cf	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Cg	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Ch	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Ci	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Cj	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Ck	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Cl	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Cm	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Cn	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Co	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Cp	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Cq	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Cr	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Cs	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Ct	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Cu	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Cv	175/204 (86%)	133 (76%)	42 (24%)	1	7
2	Cw	175/204 (86%)	132 (75%)	43 (25%)	1	6
2	Cx	175/204 (86%)	133 (76%)	42 (24%)	1	7
3	D0	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	D1	190/190 (100%)	147 (77%)	43 (23%)	1	8
3	D2	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	D3	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	D4	190/190 (100%)	146 (77%)	44 (23%)	1	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	D5	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	D6	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	D7	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	D8	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	D9	190/190 (100%)	147 (77%)	43 (23%)	1	8
3	DA	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DB	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DC	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DD	190/190 (100%)	147 (77%)	43 (23%)	1	8
3	DE	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DF	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DG	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DH	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DI	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DJ	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DK	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DL	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DM	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DN	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DO	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DP	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DQ	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DR	190/190 (100%)	147 (77%)	43 (23%)	1	8
3	DS	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DT	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DU	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DV	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DW	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DX	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DY	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	DZ	190/190 (100%)	146 (77%)	44 (23%)	1	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	Da	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Db	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Dc	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Dd	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	De	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Df	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Dg	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Dh	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Di	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Dj	190/190 (100%)	147 (77%)	43 (23%)	1	8
3	Dk	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Dl	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Dm	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Dn	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Do	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Dp	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Dq	190/190 (100%)	147 (77%)	43 (23%)	1	8
3	Dr	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	Ds	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	EA	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	EB	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	EC	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	ED	190/190 (100%)	146 (77%)	44 (23%)	1	7
3	EE	190/190 (100%)	146 (77%)	44 (23%)	1	7
4	F0	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	F1	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	F2	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	F3	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	F4	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	F5	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	F6	18/65 (28%)	13 (72%)	5 (28%)	0	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	F7	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	F8	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	F9	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FA	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FB	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FC	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FD	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FE	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FF	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FG	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FH	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FI	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FJ	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FK	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FL	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FM	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FN	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FO	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FP	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FQ	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FR	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FS	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FT	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FU	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FV	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FW	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FX	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FY	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	FZ	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fa	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fb	18/65 (28%)	13 (72%)	5 (28%)	0	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	Fc	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fd	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fe	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Ff	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fg	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fh	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fi	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fj	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fk	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fl	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fm	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fn	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fo	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fp	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fq	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fr	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fs	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Ft	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fu	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fv	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fw	18/65 (28%)	13 (72%)	5 (28%)	0	4
4	Fx	18/65 (28%)	13 (72%)	5 (28%)	0	4
All	All	35460/40020 (89%)	27939 (79%)	7521 (21%)	4	9

All (7521) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
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

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Mol	Chain	Res	Type
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	47	ASN
1	A0	59	PRO
1	A0	71	LEU
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	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	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	47	ASN
1	A1	59	PRO

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Mol	Chain	Res	Type
1	A1	71	LEU
1	A1	87	GLN
1	A1	90	PHE
1	A1	92	THR
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	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	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	47	ASN
1	A2	59	PRO
1	A2	71	LEU
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	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	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	47	ASN
1	A3	59	PRO
1	A3	71	LEU
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
1	A3	195	ILE
1	A3	196	LEU
1	A3	202	HIS
1	A3	207	CYS

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Mol	Chain	Res	Type
1	A3	209	LEU
1	A3	226	PRO
1	A3	241	THR
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	47	ASN
1	A4	59	PRO
1	A4	71	LEU
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	195	ILE
1	A4	196	LEU
1	A4	202	HIS
1	A4	207	CYS
1	A4	209	LEU
1	A4	226	PRO
1	A4	241	THR
1	A5	10	PRO
1	A5	14	GLU
1	A5	19	LEU
1	A5	20	SER
1	A5	21	PRO

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Mol	Chain	Res	Type
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	47	ASN
1	A5	59	PRO
1	A5	71	LEU
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	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
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

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Mol	Chain	Res	Type
1	A6	47	ASN
1	A6	59	PRO
1	A6	71	LEU
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	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	A7	10	PRO
1	A7	14	GLU
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	47	ASN
1	A7	59	PRO
1	A7	71	LEU
1	A7	87	GLN
1	A7	90	PHE
1	A7	92	THR
1	A7	119	TRP
1	A7	130	ILE

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Mol	Chain	Res	Type
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	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	A8	10	PRO
1	A8	14	GLU
1	A8	19	LEU
1	A8	20	SER
1	A8	21	PRO
1	A8	23	ASP
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	47	ASN
1	A8	59	PRO
1	A8	71	LEU
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	195	ILE
1	A8	196	LEU

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Mol	Chain	Res	Type
1	A8	202	HIS
1	A8	207	CYS
1	A8	209	LEU
1	A8	226	PRO
1	A8	241	THR
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
1	A9	43	LEU
1	A9	45	LEU
1	A9	46	SER
1	A9	47	ASN
1	A9	59	PRO
1	A9	71	LEU
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	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	AA	10	PRO
1	AA	14	GLU
1	AA	19	LEU

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Mol	Chain	Res	Type
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	47	ASN
1	AA	59	PRO
1	AA	71	LEU
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	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	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

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Mol	Chain	Res	Type
1	AB	45	LEU
1	AB	46	SER
1	AB	47	ASN
1	AB	59	PRO
1	AB	71	LEU
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	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	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	47	ASN
1	AC	59	PRO
1	AC	71	LEU
1	AC	87	GLN
1	AC	90	PHE
1	AC	92	THR

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Mol	Chain	Res	Type
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	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	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	47	ASN
1	AD	59	PRO
1	AD	71	LEU
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

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Mol	Chain	Res	Type
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	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	47	ASN
1	AE	59	PRO
1	AE	71	LEU
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	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	AF	10	PRO

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Mol	Chain	Res	Type
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	47	ASN
1	AF	59	PRO
1	AF	71	LEU
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	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	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

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Mol	Chain	Res	Type
1	AG	40	VAL
1	AG	43	LEU
1	AG	45	LEU
1	AG	46	SER
1	AG	47	ASN
1	AG	59	PRO
1	AG	71	LEU
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	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	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	47	ASN
1	AH	59	PRO
1	AH	71	LEU
1	AH	87	GLN

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Mol	Chain	Res	Type
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	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	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	47	ASN
1	AI	54	THR
1	AI	59	PRO
1	AI	71	LEU
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

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Mol	Chain	Res	Type
1	AI	163	MET
1	AI	177	PRO
1	AI	178	THR
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	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	47	ASN
1	AJ	59	PRO
1	AJ	71	LEU
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	195	ILE
1	AJ	196	LEU
1	AJ	202	HIS
1	AJ	207	CYS
1	AJ	209	LEU

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Mol	Chain	Res	Type
1	AJ	226	PRO
1	AJ	241	THR
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	47	ASN
1	AK	59	PRO
1	AK	71	LEU
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	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	AL	10	PRO
1	AL	14	GLU
1	AL	19	LEU
1	AL	20	SER
1	AL	21	PRO
1	AL	23	ASP

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Mol	Chain	Res	Type
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	47	ASN
1	AL	59	PRO
1	AL	71	LEU
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	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	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	47	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	AM	59	PRO
1	AM	71	LEU
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	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	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	47	ASN
1	AN	59	PRO
1	AN	71	LEU
1	AN	87	GLN
1	AN	90	PHE
1	AN	92	THR
1	AN	119	TRP
1	AN	130	ILE
1	AN	132	GLN

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Mol	Chain	Res	Type
1	AN	138	MET
1	AN	150	ARG
1	AN	163	MET
1	AN	177	PRO
1	AN	178	THR
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	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	47	ASN
1	AO	59	PRO
1	AO	71	LEU
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	195	ILE
1	AO	196	LEU
1	AO	202	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	AO	207	CYS
1	AO	209	LEU
1	AO	226	PRO
1	AO	241	THR
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	47	ASN
1	AP	59	PRO
1	AP	71	LEU
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	195	ILE
1	AP	196	LEU
1	AP	202	HIS
1	AP	207	CYS
1	AP	209	LEU
1	AP	226	PRO
1	AP	241	THR
1	AQ	10	PRO
1	AQ	14	GLU
1	AQ	19	LEU
1	AQ	20	SER

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Mol	Chain	Res	Type
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	47	ASN
1	AQ	59	PRO
1	AQ	71	LEU
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	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
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

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Mol	Chain	Res	Type
1	AR	46	SER
1	AR	47	ASN
1	AR	59	PRO
1	AR	71	LEU
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	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	AS	10	PRO
1	AS	14	GLU
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	47	ASN
1	AS	59	PRO
1	AS	71	LEU
1	AS	87	GLN
1	AS	90	PHE
1	AS	92	THR
1	AS	119	TRP

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Mol	Chain	Res	Type
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	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	AT	10	PRO
1	AT	14	GLU
1	AT	19	LEU
1	AT	20	SER
1	AT	21	PRO
1	AT	23	ASP
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	47	ASN
1	AT	59	PRO
1	AT	71	LEU
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	195	ILE

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Mol	Chain	Res	Type
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	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
1	AU	43	LEU
1	AU	45	LEU
1	AU	46	SER
1	AU	47	ASN
1	AU	59	PRO
1	AU	71	LEU
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	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	AV	10	PRO
1	AV	14	GLU

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Mol	Chain	Res	Type
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	47	ASN
1	AV	59	PRO
1	AV	71	LEU
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	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	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

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Mol	Chain	Res	Type
1	AW	43	LEU
1	AW	45	LEU
1	AW	46	SER
1	AW	47	ASN
1	AW	59	PRO
1	AW	71	LEU
1	AW	87	GLN
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	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	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	47	ASN
1	AX	59	PRO
1	AX	71	LEU
1	AX	87	GLN
1	AX	90	PHE

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Mol	Chain	Res	Type
1	AX	92	THR
1	AX	119	TRP
1	AX	130	ILE
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	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	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	47	ASN
1	AY	59	PRO
1	AY	71	LEU
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
1	AY	177	PRO

Continued on next page...

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Mol	Chain	Res	Type
1	AY	178	THR
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	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	47	ASN
1	AZ	59	PRO
1	AZ	71	LEU
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	195	ILE
1	AZ	196	LEU
1	AZ	202	HIS
1	AZ	207	CYS
1	AZ	209	LEU
1	AZ	226	PRO
1	AZ	241	THR

Continued on next page...

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Mol	Chain	Res	Type
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	47	ASN
1	Aa	59	PRO
1	Aa	71	LEU
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	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	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

Continued on next page...

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Mol	Chain	Res	Type
1	Ab	39	ASP
1	Ab	40	VAL
1	Ab	43	LEU
1	Ab	45	LEU
1	Ab	46	SER
1	Ab	47	ASN
1	Ab	59	PRO
1	Ab	71	LEU
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	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	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	47	ASN
1	Ac	59	PRO
1	Ac	71	LEU

Continued on next page...

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Mol	Chain	Res	Type
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	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	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	47	ASN
1	Ad	59	PRO
1	Ad	71	LEU
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

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Mol	Chain	Res	Type
1	Ad	163	MET
1	Ad	177	PRO
1	Ad	178	THR
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	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	47	ASN
1	Ae	59	PRO
1	Ae	71	LEU
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	195	ILE
1	Ae	196	LEU
1	Ae	202	HIS
1	Ae	207	CYS
1	Ae	209	LEU

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Mol	Chain	Res	Type
1	Ae	226	PRO
1	Ae	241	THR
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	47	ASN
1	Af	59	PRO
1	Af	71	LEU
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	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	Ag	10	PRO
1	Ag	14	GLU
1	Ag	19	LEU
1	Ag	20	SER
1	Ag	21	PRO
1	Ag	23	ASP

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Mol	Chain	Res	Type
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	47	ASN
1	Ag	59	PRO
1	Ag	71	LEU
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	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	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	47	ASN

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Mol	Chain	Res	Type
1	Ah	54	THR
1	Ah	59	PRO
1	Ah	71	LEU
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	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	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	47	ASN
1	Ai	59	PRO
1	Ai	71	LEU
1	Ai	87	GLN
1	Ai	90	PHE
1	Ai	92	THR
1	Ai	119	TRP
1	Ai	130	ILE

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Mol	Chain	Res	Type
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	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	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	47	ASN
1	Aj	59	PRO
1	Aj	71	LEU
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	195	ILE
1	Aj	196	LEU

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Mol	Chain	Res	Type
1	Aj	202	HIS
1	Aj	207	CYS
1	Aj	209	LEU
1	Aj	226	PRO
1	Aj	241	THR
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	47	ASN
1	Ak	59	PRO
1	Ak	71	LEU
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	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	Al	10	PRO
1	Al	14	GLU
1	Al	19	LEU

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Mol	Chain	Res	Type
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	47	ASN
1	Al	59	PRO
1	Al	71	LEU
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	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	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

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Mol	Chain	Res	Type
1	Am	45	LEU
1	Am	46	SER
1	Am	47	ASN
1	Am	59	PRO
1	Am	71	LEU
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	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	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	47	ASN
1	An	59	PRO
1	An	71	LEU
1	An	87	GLN
1	An	90	PHE
1	An	92	THR

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Mol	Chain	Res	Type
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	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	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	47	ASN
1	Ao	59	PRO
1	Ao	71	LEU
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	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	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
1	BA	43	LEU
1	BA	45	LEU
1	BA	46	SER
1	BA	47	ASN
1	BA	59	PRO
1	BA	71	LEU
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	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	BB	10	PRO

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Mol	Chain	Res	Type
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	47	ASN
1	BB	59	PRO
1	BB	71	LEU
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	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	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

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Mol	Chain	Res	Type
1	BC	40	VAL
1	BC	43	LEU
1	BC	45	LEU
1	BC	46	SER
1	BC	47	ASN
1	BC	59	PRO
1	BC	71	LEU
1	BC	87	GLN
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	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	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	47	ASN
1	BD	59	PRO
1	BD	71	LEU
1	BD	87	GLN

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Mol	Chain	Res	Type
1	BD	90	PHE
1	BD	92	THR
1	BD	119	TRP
1	BD	130	ILE
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	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	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	47	ASN
1	BE	59	PRO
1	BE	71	LEU
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	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	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	47	ASN
1	BF	59	PRO
1	BF	71	LEU
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	195	ILE
1	BF	196	LEU
1	BF	202	HIS
1	BF	207	CYS
1	BF	209	LEU
1	BF	226	PRO

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Mol	Chain	Res	Type
1	BF	241	THR
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	47	ASN
1	BG	59	PRO
1	BG	71	LEU
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	195	ILE
1	BG	196	LEU
1	BG	202	HIS
1	BG	207	CYS
1	BG	209	LEU
1	BG	226	PRO
1	BG	241	THR
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

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Mol	Chain	Res	Type
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	47	ASN
1	BH	59	PRO
1	BH	71	LEU
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	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	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	47	ASN
1	BI	59	PRO

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Mol	Chain	Res	Type
1	BI	71	LEU
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	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
2	C0	13	ARG
2	C0	18	VAL
2	C0	22	THR
2	C0	29	SER
2	C0	45	SER
2	C0	53	ARG
2	C0	56	PRO
2	C0	58	LEU
2	C0	73	GLN
2	C0	75	HIS
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	126	VAL
2	C0	134	HIS
2	C0	135	THR
2	C0	137	GLU
2	C0	150	TYR
2	C0	152	TYR
2	C0	159	PRO

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Mol	Chain	Res	Type
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	223	ASN
2	C1	13	ARG
2	C1	18	VAL
2	C1	22	THR
2	C1	29	SER
2	C1	45	SER
2	C1	53	ARG
2	C1	56	PRO
2	C1	58	LEU
2	C1	73	GLN
2	C1	75	HIS
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	126	VAL
2	C1	134	HIS
2	C1	135	THR
2	C1	150	TYR
2	C1	152	TYR
2	C1	159	PRO

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Mol	Chain	Res	Type
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	223	ASN
2	C2	13	ARG
2	C2	18	VAL
2	C2	22	THR
2	C2	29	SER
2	C2	45	SER
2	C2	53	ARG
2	C2	56	PRO
2	C2	58	LEU
2	C2	73	GLN
2	C2	75	HIS
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	126	VAL
2	C2	134	HIS
2	C2	135	THR
2	C2	150	TYR
2	C2	152	TYR
2	C2	159	PRO

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Mol	Chain	Res	Type
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	223	ASN
2	C3	13	ARG
2	C3	18	VAL
2	C3	22	THR
2	C3	29	SER
2	C3	45	SER
2	C3	53	ARG
2	C3	56	PRO
2	C3	58	LEU
2	C3	73	GLN
2	C3	75	HIS
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	126	VAL
2	C3	134	HIS
2	C3	135	THR
2	C3	150	TYR
2	C3	152	TYR
2	C3	159	PRO

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Mol	Chain	Res	Type
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
2	C3	214	SER
2	C3	223	ASN
2	C4	13	ARG
2	C4	18	VAL
2	C4	22	THR
2	C4	29	SER
2	C4	45	SER
2	C4	53	ARG
2	C4	56	PRO
2	C4	58	LEU
2	C4	73	GLN
2	C4	75	HIS
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	126	VAL
2	C4	134	HIS
2	C4	135	THR
2	C4	150	TYR
2	C4	152	TYR
2	C4	159	PRO

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Mol	Chain	Res	Type
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
2	C4	203	THR
2	C4	210	PRO
2	C4	214	SER
2	C4	223	ASN
2	C5	13	ARG
2	C5	18	VAL
2	C5	22	THR
2	C5	29	SER
2	C5	45	SER
2	C5	53	ARG
2	C5	56	PRO
2	C5	58	LEU
2	C5	73	GLN
2	C5	75	HIS
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	126	VAL
2	C5	134	HIS
2	C5	135	THR
2	C5	137	GLU
2	C5	150	TYR
2	C5	152	TYR

Continued on next page...

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Mol	Chain	Res	Type
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
2	C5	200	SER
2	C5	202	LEU
2	C5	203	THR
2	C5	210	PRO
2	C5	214	SER
2	C5	223	ASN
2	C6	13	ARG
2	C6	18	VAL
2	C6	22	THR
2	C6	29	SER
2	C6	45	SER
2	C6	53	ARG
2	C6	56	PRO
2	C6	58	LEU
2	C6	73	GLN
2	C6	75	HIS
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	126	VAL
2	C6	134	HIS
2	C6	135	THR
2	C6	150	TYR
2	C6	152	TYR

Continued on next page...

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Mol	Chain	Res	Type
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
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	223	ASN
2	C7	13	ARG
2	C7	18	VAL
2	C7	22	THR
2	C7	29	SER
2	C7	45	SER
2	C7	53	ARG
2	C7	56	PRO
2	C7	58	LEU
2	C7	73	GLN
2	C7	75	HIS
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	126	VAL
2	C7	134	HIS
2	C7	135	THR
2	C7	150	TYR
2	C7	152	TYR

Continued on next page...

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Mol	Chain	Res	Type
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
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	223	ASN
2	C8	13	ARG
2	C8	18	VAL
2	C8	22	THR
2	C8	29	SER
2	C8	45	SER
2	C8	53	ARG
2	C8	56	PRO
2	C8	58	LEU
2	C8	73	GLN
2	C8	75	HIS
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	126	VAL
2	C8	134	HIS
2	C8	135	THR
2	C8	150	TYR
2	C8	152	TYR

Continued on next page...

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Mol	Chain	Res	Type
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
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	223	ASN
2	C9	13	ARG
2	C9	18	VAL
2	C9	22	THR
2	C9	29	SER
2	C9	45	SER
2	C9	53	ARG
2	C9	56	PRO
2	C9	58	LEU
2	C9	73	GLN
2	C9	75	HIS
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	126	VAL
2	C9	134	HIS
2	C9	135	THR
2	C9	150	TYR
2	C9	152	TYR

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Mol	Chain	Res	Type
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
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	223	ASN
2	CA	13	ARG
2	CA	18	VAL
2	CA	22	THR
2	CA	29	SER
2	CA	45	SER
2	CA	53	ARG
2	CA	56	PRO
2	CA	58	LEU
2	CA	73	GLN
2	CA	75	HIS
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	126	VAL
2	CA	134	HIS
2	CA	135	THR
2	CA	150	TYR
2	CA	152	TYR

Continued on next page...

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Mol	Chain	Res	Type
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	223	ASN
2	CB	13	ARG
2	CB	18	VAL
2	CB	22	THR
2	CB	29	SER
2	CB	45	SER
2	CB	53	ARG
2	CB	56	PRO
2	CB	58	LEU
2	CB	73	GLN
2	CB	75	HIS
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	126	VAL
2	CB	134	HIS
2	CB	135	THR
2	CB	150	TYR
2	CB	152	TYR

Continued on next page...

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Mol	Chain	Res	Type
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	223	ASN
2	CC	13	ARG
2	CC	18	VAL
2	CC	22	THR
2	CC	29	SER
2	CC	45	SER
2	CC	53	ARG
2	CC	56	PRO
2	CC	58	LEU
2	CC	73	GLN
2	CC	75	HIS
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	126	VAL
2	CC	134	HIS
2	CC	135	THR
2	CC	137	GLU
2	CC	150	TYR

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Mol	Chain	Res	Type
2	CC	152	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	223	ASN
2	CD	13	ARG
2	CD	18	VAL
2	CD	22	THR
2	CD	29	SER
2	CD	45	SER
2	CD	53	ARG
2	CD	56	PRO
2	CD	58	LEU
2	CD	73	GLN
2	CD	75	HIS
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	126	VAL
2	CD	134	HIS
2	CD	135	THR
2	CD	137	GLU

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Mol	Chain	Res	Type
2	CD	150	TYR
2	CD	152	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	223	ASN
2	CE	13	ARG
2	CE	18	VAL
2	CE	22	THR
2	CE	29	SER
2	CE	45	SER
2	CE	53	ARG
2	CE	56	PRO
2	CE	58	LEU
2	CE	73	GLN
2	CE	75	HIS
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	126	VAL
2	CE	134	HIS
2	CE	135	THR

Continued on next page...

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Mol	Chain	Res	Type
2	CE	150	TYR
2	CE	152	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	223	ASN
2	CF	13	ARG
2	CF	18	VAL
2	CF	22	THR
2	CF	29	SER
2	CF	45	SER
2	CF	53	ARG
2	CF	56	PRO
2	CF	58	LEU
2	CF	73	GLN
2	CF	75	HIS
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	126	VAL
2	CF	134	HIS
2	CF	135	THR

Continued on next page...

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Mol	Chain	Res	Type
2	CF	137	GLU
2	CF	150	TYR
2	CF	152	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	223	ASN
2	CG	13	ARG
2	CG	18	VAL
2	CG	22	THR
2	CG	29	SER
2	CG	45	SER
2	CG	53	ARG
2	CG	56	PRO
2	CG	58	LEU
2	CG	73	GLN
2	CG	75	HIS
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	126	VAL
2	CG	134	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	CG	135	THR
2	CG	137	GLU
2	CG	150	TYR
2	CG	152	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	223	ASN
2	CH	13	ARG
2	CH	18	VAL
2	CH	22	THR
2	CH	29	SER
2	CH	45	SER
2	CH	53	ARG
2	CH	56	PRO
2	CH	58	LEU
2	CH	73	GLN
2	CH	75	HIS
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	126	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	CH	134	HIS
2	CH	135	THR
2	CH	150	TYR
2	CH	152	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	223	ASN
2	CI	13	ARG
2	CI	18	VAL
2	CI	22	THR
2	CI	29	SER
2	CI	45	SER
2	CI	53	ARG
2	CI	56	PRO
2	CI	58	LEU
2	CI	73	GLN
2	CI	75	HIS
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	126	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	CI	134	HIS
2	CI	135	THR
2	CI	137	GLU
2	CI	150	TYR
2	CI	152	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	223	ASN
2	CJ	13	ARG
2	CJ	18	VAL
2	CJ	22	THR
2	CJ	29	SER
2	CJ	45	SER
2	CJ	53	ARG
2	CJ	56	PRO
2	CJ	58	LEU
2	CJ	73	GLN
2	CJ	75	HIS
2	CJ	84	PRO
2	CJ	88	LEU
2	CJ	93	SER
2	CJ	103	LEU
2	CJ	104	VAL
2	CJ	110	VAL

Continued on next page...

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Mol	Chain	Res	Type
2	CJ	126	VAL
2	CJ	134	HIS
2	CJ	135	THR
2	CJ	150	TYR
2	CJ	152	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	223	ASN
2	CK	13	ARG
2	CK	18	VAL
2	CK	22	THR
2	CK	29	SER
2	CK	45	SER
2	CK	53	ARG
2	CK	56	PRO
2	CK	58	LEU
2	CK	73	GLN
2	CK	75	HIS
2	CK	84	PRO
2	CK	88	LEU
2	CK	93	SER
2	CK	103	LEU
2	CK	104	VAL
2	CK	110	VAL

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Mol	Chain	Res	Type
2	CK	126	VAL
2	CK	134	HIS
2	CK	135	THR
2	CK	150	TYR
2	CK	152	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	223	ASN
2	CL	13	ARG
2	CL	18	VAL
2	CL	22	THR
2	CL	29	SER
2	CL	45	SER
2	CL	53	ARG
2	CL	56	PRO
2	CL	58	LEU
2	CL	73	GLN
2	CL	75	HIS
2	CL	84	PRO
2	CL	88	LEU
2	CL	93	SER
2	CL	103	LEU
2	CL	104	VAL
2	CL	110	VAL

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Mol	Chain	Res	Type
2	CL	126	VAL
2	CL	134	HIS
2	CL	135	THR
2	CL	150	TYR
2	CL	152	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	223	ASN
2	CM	13	ARG
2	CM	18	VAL
2	CM	22	THR
2	CM	29	SER
2	CM	45	SER
2	CM	53	ARG
2	CM	56	PRO
2	CM	58	LEU
2	CM	73	GLN
2	CM	75	HIS
2	CM	84	PRO
2	CM	88	LEU
2	CM	93	SER
2	CM	103	LEU
2	CM	104	VAL
2	CM	110	VAL

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Mol	Chain	Res	Type
2	CM	126	VAL
2	CM	134	HIS
2	CM	135	THR
2	CM	137	GLU
2	CM	150	TYR
2	CM	152	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	223	ASN
2	CN	13	ARG
2	CN	18	VAL
2	CN	22	THR
2	CN	29	SER
2	CN	45	SER
2	CN	53	ARG
2	CN	56	PRO
2	CN	58	LEU
2	CN	73	GLN
2	CN	75	HIS
2	CN	84	PRO
2	CN	88	LEU
2	CN	93	SER
2	CN	103	LEU
2	CN	104	VAL

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Mol	Chain	Res	Type
2	CN	110	VAL
2	CN	126	VAL
2	CN	134	HIS
2	CN	135	THR
2	CN	137	GLU
2	CN	150	TYR
2	CN	152	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	223	ASN
2	CO	13	ARG
2	CO	18	VAL
2	CO	22	THR
2	CO	29	SER
2	CO	45	SER
2	CO	53	ARG
2	CO	56	PRO
2	CO	58	LEU
2	CO	73	GLN
2	CO	75	HIS
2	CO	84	PRO
2	CO	88	LEU
2	CO	93	SER
2	CO	103	LEU

Continued on next page...

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Mol	Chain	Res	Type
2	CO	104	VAL
2	CO	110	VAL
2	CO	126	VAL
2	CO	134	HIS
2	CO	135	THR
2	CO	150	TYR
2	CO	152	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
2	CO	214	SER
2	CO	223	ASN
2	CP	13	ARG
2	CP	18	VAL
2	CP	22	THR
2	CP	29	SER
2	CP	45	SER
2	CP	53	ARG
2	CP	56	PRO
2	CP	58	LEU
2	CP	73	GLN
2	CP	75	HIS
2	CP	84	PRO
2	CP	88	LEU
2	CP	93	SER
2	CP	103	LEU

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Mol	Chain	Res	Type
2	CP	104	VAL
2	CP	110	VAL
2	CP	126	VAL
2	CP	134	HIS
2	CP	135	THR
2	CP	137	GLU
2	CP	150	TYR
2	CP	152	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
2	CP	203	THR
2	CP	210	PRO
2	CP	214	SER
2	CP	223	ASN
2	CQ	13	ARG
2	CQ	18	VAL
2	CQ	22	THR
2	CQ	29	SER
2	CQ	45	SER
2	CQ	53	ARG
2	CQ	56	PRO
2	CQ	58	LEU
2	CQ	73	GLN
2	CQ	75	HIS
2	CQ	84	PRO
2	CQ	88	LEU
2	CQ	93	SER

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Mol	Chain	Res	Type
2	CQ	103	LEU
2	CQ	104	VAL
2	CQ	110	VAL
2	CQ	126	VAL
2	CQ	134	HIS
2	CQ	135	THR
2	CQ	137	GLU
2	CQ	150	TYR
2	CQ	152	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
2	CQ	200	SER
2	CQ	202	LEU
2	CQ	203	THR
2	CQ	210	PRO
2	CQ	214	SER
2	CQ	223	ASN
2	CR	13	ARG
2	CR	18	VAL
2	CR	22	THR
2	CR	29	SER
2	CR	45	SER
2	CR	53	ARG
2	CR	56	PRO
2	CR	58	LEU
2	CR	73	GLN
2	CR	75	HIS
2	CR	84	PRO
2	CR	88	LEU

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Mol	Chain	Res	Type
2	CR	93	SER
2	CR	103	LEU
2	CR	104	VAL
2	CR	110	VAL
2	CR	126	VAL
2	CR	134	HIS
2	CR	135	THR
2	CR	150	TYR
2	CR	152	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
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	223	ASN
2	CS	13	ARG
2	CS	18	VAL
2	CS	22	THR
2	CS	29	SER
2	CS	45	SER
2	CS	53	ARG
2	CS	56	PRO
2	CS	58	LEU
2	CS	73	GLN
2	CS	75	HIS
2	CS	84	PRO
2	CS	88	LEU

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Mol	Chain	Res	Type
2	CS	93	SER
2	CS	103	LEU
2	CS	104	VAL
2	CS	110	VAL
2	CS	126	VAL
2	CS	134	HIS
2	CS	135	THR
2	CS	150	TYR
2	CS	152	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
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	223	ASN
2	CT	13	ARG
2	CT	18	VAL
2	CT	22	THR
2	CT	29	SER
2	CT	45	SER
2	CT	53	ARG
2	CT	56	PRO
2	CT	58	LEU
2	CT	73	GLN
2	CT	75	HIS
2	CT	84	PRO
2	CT	88	LEU

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Mol	Chain	Res	Type
2	CT	93	SER
2	CT	103	LEU
2	CT	104	VAL
2	CT	110	VAL
2	CT	126	VAL
2	CT	134	HIS
2	CT	135	THR
2	CT	150	TYR
2	CT	152	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	223	ASN
2	CU	13	ARG
2	CU	18	VAL
2	CU	22	THR
2	CU	29	SER
2	CU	45	SER
2	CU	53	ARG
2	CU	56	PRO
2	CU	58	LEU
2	CU	73	GLN
2	CU	75	HIS
2	CU	84	PRO
2	CU	88	LEU

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Mol	Chain	Res	Type
2	CU	93	SER
2	CU	103	LEU
2	CU	104	VAL
2	CU	110	VAL
2	CU	126	VAL
2	CU	134	HIS
2	CU	135	THR
2	CU	137	GLU
2	CU	150	TYR
2	CU	152	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	223	ASN
2	CV	13	ARG
2	CV	18	VAL
2	CV	22	THR
2	CV	29	SER
2	CV	45	SER
2	CV	53	ARG
2	CV	56	PRO
2	CV	58	LEU
2	CV	73	GLN
2	CV	75	HIS
2	CV	84	PRO

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Mol	Chain	Res	Type
2	CV	88	LEU
2	CV	93	SER
2	CV	103	LEU
2	CV	104	VAL
2	CV	110	VAL
2	CV	126	VAL
2	CV	134	HIS
2	CV	135	THR
2	CV	150	TYR
2	CV	152	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	223	ASN
2	CW	13	ARG
2	CW	18	VAL
2	CW	22	THR
2	CW	29	SER
2	CW	45	SER
2	CW	53	ARG
2	CW	56	PRO
2	CW	58	LEU
2	CW	73	GLN
2	CW	75	HIS
2	CW	84	PRO

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Mol	Chain	Res	Type
2	CW	88	LEU
2	CW	93	SER
2	CW	103	LEU
2	CW	104	VAL
2	CW	110	VAL
2	CW	126	VAL
2	CW	134	HIS
2	CW	135	THR
2	CW	137	GLU
2	CW	150	TYR
2	CW	152	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	223	ASN
2	CX	13	ARG
2	CX	18	VAL
2	CX	22	THR
2	CX	29	SER
2	CX	45	SER
2	CX	53	ARG
2	CX	56	PRO
2	CX	58	LEU
2	CX	73	GLN
2	CX	75	HIS

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Mol	Chain	Res	Type
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	126	VAL
2	CX	134	HIS
2	CX	135	THR
2	CX	150	TYR
2	CX	152	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	223	ASN
2	CY	13	ARG
2	CY	18	VAL
2	CY	22	THR
2	CY	29	SER
2	CY	45	SER
2	CY	53	ARG
2	CY	56	PRO
2	CY	58	LEU
2	CY	73	GLN
2	CY	75	HIS

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Mol	Chain	Res	Type
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	126	VAL
2	CY	134	HIS
2	CY	135	THR
2	CY	137	GLU
2	CY	150	TYR
2	CY	152	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	223	ASN
2	CZ	13	ARG
2	CZ	18	VAL
2	CZ	22	THR
2	CZ	29	SER
2	CZ	45	SER
2	CZ	53	ARG
2	CZ	56	PRO
2	CZ	58	LEU
2	CZ	73	GLN

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Mol	Chain	Res	Type
2	CZ	75	HIS
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	126	VAL
2	CZ	134	HIS
2	CZ	135	THR
2	CZ	137	GLU
2	CZ	150	TYR
2	CZ	152	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	223	ASN
2	Ca	13	ARG
2	Ca	18	VAL
2	Ca	22	THR
2	Ca	29	SER
2	Ca	45	SER
2	Ca	53	ARG
2	Ca	56	PRO
2	Ca	58	LEU

Continued on next page...

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Mol	Chain	Res	Type
2	Ca	73	GLN
2	Ca	75	HIS
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	126	VAL
2	Ca	134	HIS
2	Ca	135	THR
2	Ca	150	TYR
2	Ca	152	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	223	ASN
2	Cb	13	ARG
2	Cb	18	VAL
2	Cb	22	THR
2	Cb	29	SER
2	Cb	45	SER
2	Cb	53	ARG
2	Cb	56	PRO
2	Cb	58	LEU

Continued on next page...

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Mol	Chain	Res	Type
2	Cb	73	GLN
2	Cb	75	HIS
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	126	VAL
2	Cb	134	HIS
2	Cb	135	THR
2	Cb	137	GLU
2	Cb	150	TYR
2	Cb	152	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	223	ASN
2	Cc	13	ARG
2	Cc	18	VAL
2	Cc	22	THR
2	Cc	29	SER
2	Cc	45	SER
2	Cc	53	ARG
2	Cc	56	PRO

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Mol	Chain	Res	Type
2	Cc	58	LEU
2	Cc	73	GLN
2	Cc	75	HIS
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	126	VAL
2	Cc	134	HIS
2	Cc	135	THR
2	Cc	137	GLU
2	Cc	150	TYR
2	Cc	152	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	223	ASN
2	Cd	13	ARG
2	Cd	18	VAL
2	Cd	22	THR
2	Cd	29	SER
2	Cd	45	SER
2	Cd	53	ARG

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Mol	Chain	Res	Type
2	Cd	56	PRO
2	Cd	58	LEU
2	Cd	73	GLN
2	Cd	75	HIS
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	126	VAL
2	Cd	134	HIS
2	Cd	135	THR
2	Cd	150	TYR
2	Cd	152	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	223	ASN
2	Ce	13	ARG
2	Ce	18	VAL
2	Ce	22	THR
2	Ce	29	SER
2	Ce	45	SER
2	Ce	53	ARG

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Mol	Chain	Res	Type
2	Ce	56	PRO
2	Ce	58	LEU
2	Ce	73	GLN
2	Ce	75	HIS
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	126	VAL
2	Ce	134	HIS
2	Ce	135	THR
2	Ce	137	GLU
2	Ce	150	TYR
2	Ce	152	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	223	ASN
2	Cf	13	ARG
2	Cf	18	VAL
2	Cf	22	THR
2	Cf	29	SER
2	Cf	45	SER

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Mol	Chain	Res	Type
2	Cf	53	ARG
2	Cf	56	PRO
2	Cf	58	LEU
2	Cf	73	GLN
2	Cf	75	HIS
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	126	VAL
2	Cf	134	HIS
2	Cf	135	THR
2	Cf	150	TYR
2	Cf	152	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	223	ASN
2	Cg	13	ARG
2	Cg	18	VAL
2	Cg	22	THR
2	Cg	29	SER
2	Cg	45	SER

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Mol	Chain	Res	Type
2	Cg	53	ARG
2	Cg	56	PRO
2	Cg	58	LEU
2	Cg	73	GLN
2	Cg	75	HIS
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	126	VAL
2	Cg	134	HIS
2	Cg	135	THR
2	Cg	150	TYR
2	Cg	152	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	223	ASN
2	Ch	13	ARG
2	Ch	18	VAL
2	Ch	22	THR
2	Ch	29	SER
2	Ch	45	SER

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Mol	Chain	Res	Type
2	Ch	53	ARG
2	Ch	56	PRO
2	Ch	58	LEU
2	Ch	73	GLN
2	Ch	75	HIS
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	126	VAL
2	Ch	134	HIS
2	Ch	135	THR
2	Ch	137	GLU
2	Ch	150	TYR
2	Ch	152	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	223	ASN
2	Ci	13	ARG
2	Ci	18	VAL
2	Ci	22	THR
2	Ci	29	SER

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Mol	Chain	Res	Type
2	Ci	45	SER
2	Ci	53	ARG
2	Ci	56	PRO
2	Ci	58	LEU
2	Ci	73	GLN
2	Ci	75	HIS
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	126	VAL
2	Ci	134	HIS
2	Ci	135	THR
2	Ci	150	TYR
2	Ci	152	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	223	ASN
2	Cj	13	ARG
2	Cj	18	VAL
2	Cj	22	THR
2	Cj	29	SER

Continued on next page...

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Mol	Chain	Res	Type
2	Cj	45	SER
2	Cj	53	ARG
2	Cj	56	PRO
2	Cj	58	LEU
2	Cj	73	GLN
2	Cj	75	HIS
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	126	VAL
2	Cj	134	HIS
2	Cj	135	THR
2	Cj	150	TYR
2	Cj	152	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	223	ASN
2	Ck	13	ARG
2	Ck	18	VAL
2	Ck	22	THR
2	Ck	29	SER

Continued on next page...

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Mol	Chain	Res	Type
2	Ck	45	SER
2	Ck	53	ARG
2	Ck	56	PRO
2	Ck	58	LEU
2	Ck	73	GLN
2	Ck	75	HIS
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	126	VAL
2	Ck	134	HIS
2	Ck	135	THR
2	Ck	150	TYR
2	Ck	152	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	223	ASN
2	Cl	13	ARG
2	Cl	18	VAL
2	Cl	22	THR
2	Cl	29	SER

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Mol	Chain	Res	Type
2	Cl	45	SER
2	Cl	53	ARG
2	Cl	56	PRO
2	Cl	58	LEU
2	Cl	73	GLN
2	Cl	75	HIS
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	126	VAL
2	Cl	134	HIS
2	Cl	135	THR
2	Cl	150	TYR
2	Cl	152	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	223	ASN
2	Cm	13	ARG
2	Cm	18	VAL
2	Cm	22	THR
2	Cm	29	SER

Continued on next page...

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Mol	Chain	Res	Type
2	Cm	45	SER
2	Cm	53	ARG
2	Cm	56	PRO
2	Cm	58	LEU
2	Cm	73	GLN
2	Cm	75	HIS
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	126	VAL
2	Cm	134	HIS
2	Cm	135	THR
2	Cm	137	GLU
2	Cm	150	TYR
2	Cm	152	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	223	ASN
2	Cn	13	ARG
2	Cn	18	VAL
2	Cn	22	THR

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Mol	Chain	Res	Type
2	Cn	29	SER
2	Cn	45	SER
2	Cn	53	ARG
2	Cn	56	PRO
2	Cn	58	LEU
2	Cn	73	GLN
2	Cn	75	HIS
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	126	VAL
2	Cn	134	HIS
2	Cn	135	THR
2	Cn	150	TYR
2	Cn	152	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	223	ASN
2	Co	13	ARG
2	Co	18	VAL
2	Co	22	THR

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Mol	Chain	Res	Type
2	Co	29	SER
2	Co	45	SER
2	Co	53	ARG
2	Co	56	PRO
2	Co	58	LEU
2	Co	73	GLN
2	Co	75	HIS
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	126	VAL
2	Co	134	HIS
2	Co	135	THR
2	Co	137	GLU
2	Co	150	TYR
2	Co	152	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
2	Co	214	SER
2	Co	223	ASN
2	Cp	13	ARG
2	Cp	18	VAL

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Mol	Chain	Res	Type
2	Cp	22	THR
2	Cp	29	SER
2	Cp	45	SER
2	Cp	53	ARG
2	Cp	56	PRO
2	Cp	58	LEU
2	Cp	73	GLN
2	Cp	75	HIS
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	126	VAL
2	Cp	134	HIS
2	Cp	135	THR
2	Cp	137	GLU
2	Cp	150	TYR
2	Cp	152	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
2	Cp	203	THR
2	Cp	210	PRO
2	Cp	214	SER
2	Cp	223	ASN
2	Cq	13	ARG

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Mol	Chain	Res	Type
2	Cq	18	VAL
2	Cq	22	THR
2	Cq	29	SER
2	Cq	45	SER
2	Cq	53	ARG
2	Cq	56	PRO
2	Cq	58	LEU
2	Cq	73	GLN
2	Cq	75	HIS
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	126	VAL
2	Cq	134	HIS
2	Cq	135	THR
2	Cq	150	TYR
2	Cq	152	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
2	Cq	200	SER
2	Cq	202	LEU
2	Cq	203	THR
2	Cq	210	PRO
2	Cq	214	SER
2	Cq	223	ASN
2	Cr	13	ARG

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Mol	Chain	Res	Type
2	Cr	18	VAL
2	Cr	22	THR
2	Cr	29	SER
2	Cr	45	SER
2	Cr	53	ARG
2	Cr	56	PRO
2	Cr	58	LEU
2	Cr	73	GLN
2	Cr	75	HIS
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	126	VAL
2	Cr	134	HIS
2	Cr	135	THR
2	Cr	150	TYR
2	Cr	152	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
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	223	ASN
2	Cs	13	ARG

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Mol	Chain	Res	Type
2	Cs	18	VAL
2	Cs	22	THR
2	Cs	29	SER
2	Cs	45	SER
2	Cs	53	ARG
2	Cs	56	PRO
2	Cs	58	LEU
2	Cs	73	GLN
2	Cs	75	HIS
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	126	VAL
2	Cs	134	HIS
2	Cs	135	THR
2	Cs	150	TYR
2	Cs	152	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
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	223	ASN
2	Ct	13	ARG

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Mol	Chain	Res	Type
2	Ct	18	VAL
2	Ct	22	THR
2	Ct	29	SER
2	Ct	45	SER
2	Ct	53	ARG
2	Ct	56	PRO
2	Ct	58	LEU
2	Ct	73	GLN
2	Ct	75	HIS
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	126	VAL
2	Ct	134	HIS
2	Ct	135	THR
2	Ct	137	GLU
2	Ct	150	TYR
2	Ct	152	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	223	ASN

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Mol	Chain	Res	Type
2	Cu	13	ARG
2	Cu	18	VAL
2	Cu	22	THR
2	Cu	29	SER
2	Cu	45	SER
2	Cu	53	ARG
2	Cu	56	PRO
2	Cu	58	LEU
2	Cu	73	GLN
2	Cu	75	HIS
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	126	VAL
2	Cu	134	HIS
2	Cu	135	THR
2	Cu	137	GLU
2	Cu	150	TYR
2	Cu	152	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

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Mol	Chain	Res	Type
2	Cu	223	ASN
2	Cv	13	ARG
2	Cv	18	VAL
2	Cv	22	THR
2	Cv	29	SER
2	Cv	45	SER
2	Cv	53	ARG
2	Cv	56	PRO
2	Cv	58	LEU
2	Cv	73	GLN
2	Cv	75	HIS
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	126	VAL
2	Cv	134	HIS
2	Cv	135	THR
2	Cv	150	TYR
2	Cv	152	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

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Mol	Chain	Res	Type
2	Cv	223	ASN
2	Cw	13	ARG
2	Cw	18	VAL
2	Cw	22	THR
2	Cw	29	SER
2	Cw	45	SER
2	Cw	53	ARG
2	Cw	56	PRO
2	Cw	58	LEU
2	Cw	73	GLN
2	Cw	75	HIS
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	126	VAL
2	Cw	134	HIS
2	Cw	135	THR
2	Cw	137	GLU
2	Cw	150	TYR
2	Cw	152	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

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Mol	Chain	Res	Type
2	Cw	214	SER
2	Cw	223	ASN
2	Cx	13	ARG
2	Cx	18	VAL
2	Cx	22	THR
2	Cx	29	SER
2	Cx	45	SER
2	Cx	53	ARG
2	Cx	56	PRO
2	Cx	58	LEU
2	Cx	73	GLN
2	Cx	75	HIS
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	126	VAL
2	Cx	134	HIS
2	Cx	135	THR
2	Cx	150	TYR
2	Cx	152	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

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Mol	Chain	Res	Type
2	Cx	214	SER
2	Cx	223	ASN
3	D0	15	MET
3	D0	16	SER
3	D0	18	VAL
3	D0	26	TYR
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
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	84	GLU
3	D0	86	HIS
3	D0	90	VAL
3	D0	93	LEU
3	D0	103	SER
3	D0	120	PHE
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	157	ASN
3	D0	160	TYR
3	D0	162	SER
3	D0	165	ASP
3	D0	178	ASN
3	D0	188	LEU
3	D0	189	THR
3	D0	195	ASP

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Mol	Chain	Res	Type
3	D0	204	VAL
3	D0	217	ARG
3	D0	222	LEU
3	D0	224	ASP
3	D1	15	MET
3	D1	16	SER
3	D1	18	VAL
3	D1	26	TYR
3	D1	31	VAL
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	84	GLU
3	D1	86	HIS
3	D1	90	VAL
3	D1	93	LEU
3	D1	103	SER
3	D1	120	PHE
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	160	TYR
3	D1	162	SER
3	D1	165	ASP
3	D1	178	ASN
3	D1	188	LEU
3	D1	189	THR

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Mol	Chain	Res	Type
3	D1	195	ASP
3	D1	204	VAL
3	D1	217	ARG
3	D1	222	LEU
3	D1	224	ASP
3	D2	15	MET
3	D2	16	SER
3	D2	18	VAL
3	D2	26	TYR
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	84	GLU
3	D2	86	HIS
3	D2	90	VAL
3	D2	93	LEU
3	D2	103	SER
3	D2	120	PHE
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	157	ASN
3	D2	160	TYR
3	D2	162	SER
3	D2	165	ASP
3	D2	178	ASN

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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	217	ARG
3	D2	222	LEU
3	D2	224	ASP
3	D3	15	MET
3	D3	16	SER
3	D3	18	VAL
3	D3	26	TYR
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	84	GLU
3	D3	86	HIS
3	D3	90	VAL
3	D3	93	LEU
3	D3	103	SER
3	D3	120	PHE
3	D3	133	LYS
3	D3	134	THR
3	D3	139	MET
3	D3	142	ILE
3	D3	146	TRP
3	D3	148	VAL
3	D3	150	LEU
3	D3	157	ASN
3	D3	160	TYR
3	D3	162	SER

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Mol	Chain	Res	Type
3	D3	165	ASP
3	D3	178	ASN
3	D3	188	LEU
3	D3	189	THR
3	D3	195	ASP
3	D3	204	VAL
3	D3	217	ARG
3	D3	222	LEU
3	D3	224	ASP
3	D4	15	MET
3	D4	16	SER
3	D4	18	VAL
3	D4	26	TYR
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	84	GLU
3	D4	86	HIS
3	D4	90	VAL
3	D4	93	LEU
3	D4	103	SER
3	D4	120	PHE
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	157	ASN

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Mol	Chain	Res	Type
3	D4	160	TYR
3	D4	162	SER
3	D4	165	ASP
3	D4	178	ASN
3	D4	188	LEU
3	D4	189	THR
3	D4	195	ASP
3	D4	204	VAL
3	D4	217	ARG
3	D4	222	LEU
3	D4	224	ASP
3	D5	15	MET
3	D5	16	SER
3	D5	18	VAL
3	D5	26	TYR
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	84	GLU
3	D5	86	HIS
3	D5	90	VAL
3	D5	93	LEU
3	D5	103	SER
3	D5	120	PHE
3	D5	133	LYS
3	D5	134	THR
3	D5	139	MET
3	D5	142	ILE
3	D5	146	TRP
3	D5	148	VAL

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Mol	Chain	Res	Type
3	D5	150	LEU
3	D5	157	ASN
3	D5	160	TYR
3	D5	162	SER
3	D5	165	ASP
3	D5	178	ASN
3	D5	188	LEU
3	D5	189	THR
3	D5	195	ASP
3	D5	204	VAL
3	D5	217	ARG
3	D5	222	LEU
3	D5	224	ASP
3	D6	15	MET
3	D6	16	SER
3	D6	18	VAL
3	D6	26	TYR
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
3	D6	67	THR
3	D6	76	MET
3	D6	84	GLU
3	D6	86	HIS
3	D6	90	VAL
3	D6	93	LEU
3	D6	103	SER
3	D6	120	PHE
3	D6	133	LYS
3	D6	134	THR
3	D6	139	MET
3	D6	142	ILE

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Mol	Chain	Res	Type
3	D6	146	TRP
3	D6	148	VAL
3	D6	150	LEU
3	D6	157	ASN
3	D6	160	TYR
3	D6	162	SER
3	D6	165	ASP
3	D6	178	ASN
3	D6	188	LEU
3	D6	189	THR
3	D6	195	ASP
3	D6	204	VAL
3	D6	217	ARG
3	D6	222	LEU
3	D6	224	ASP
3	D7	15	MET
3	D7	16	SER
3	D7	18	VAL
3	D7	26	TYR
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
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	84	GLU
3	D7	86	HIS
3	D7	90	VAL
3	D7	93	LEU
3	D7	103	SER
3	D7	120	PHE
3	D7	133	LYS
3	D7	134	THR

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Mol	Chain	Res	Type
3	D7	139	MET
3	D7	142	ILE
3	D7	146	TRP
3	D7	148	VAL
3	D7	150	LEU
3	D7	157	ASN
3	D7	160	TYR
3	D7	162	SER
3	D7	165	ASP
3	D7	178	ASN
3	D7	188	LEU
3	D7	189	THR
3	D7	195	ASP
3	D7	204	VAL
3	D7	217	ARG
3	D7	222	LEU
3	D7	224	ASP
3	D8	15	MET
3	D8	16	SER
3	D8	18	VAL
3	D8	26	TYR
3	D8	31	VAL
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	84	GLU
3	D8	86	HIS
3	D8	90	VAL
3	D8	93	LEU
3	D8	103	SER
3	D8	120	PHE

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Mol	Chain	Res	Type
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	157	ASN
3	D8	160	TYR
3	D8	162	SER
3	D8	165	ASP
3	D8	178	ASN
3	D8	188	LEU
3	D8	189	THR
3	D8	195	ASP
3	D8	204	VAL
3	D8	217	ARG
3	D8	222	LEU
3	D8	224	ASP
3	D9	15	MET
3	D9	16	SER
3	D9	18	VAL
3	D9	26	TYR
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	84	GLU
3	D9	86	HIS
3	D9	90	VAL
3	D9	93	LEU

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Mol	Chain	Res	Type
3	D9	103	SER
3	D9	120	PHE
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	157	ASN
3	D9	160	TYR
3	D9	162	SER
3	D9	165	ASP
3	D9	178	ASN
3	D9	188	LEU
3	D9	189	THR
3	D9	195	ASP
3	D9	204	VAL
3	D9	217	ARG
3	D9	222	LEU
3	DA	15	MET
3	DA	16	SER
3	DA	18	VAL
3	DA	26	TYR
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	84	GLU
3	DA	86	HIS
3	DA	90	VAL

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Mol	Chain	Res	Type
3	DA	93	LEU
3	DA	103	SER
3	DA	120	PHE
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	157	ASN
3	DA	160	TYR
3	DA	162	SER
3	DA	165	ASP
3	DA	178	ASN
3	DA	188	LEU
3	DA	189	THR
3	DA	195	ASP
3	DA	204	VAL
3	DA	217	ARG
3	DA	222	LEU
3	DA	224	ASP
3	DB	15	MET
3	DB	16	SER
3	DB	18	VAL
3	DB	26	TYR
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	84	GLU

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Mol	Chain	Res	Type
3	DB	86	HIS
3	DB	90	VAL
3	DB	93	LEU
3	DB	103	SER
3	DB	120	PHE
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	157	ASN
3	DB	160	TYR
3	DB	162	SER
3	DB	165	ASP
3	DB	178	ASN
3	DB	188	LEU
3	DB	189	THR
3	DB	195	ASP
3	DB	204	VAL
3	DB	217	ARG
3	DB	222	LEU
3	DB	224	ASP
3	DC	15	MET
3	DC	16	SER
3	DC	18	VAL
3	DC	26	TYR
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

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Mol	Chain	Res	Type
3	DC	76	MET
3	DC	84	GLU
3	DC	86	HIS
3	DC	90	VAL
3	DC	93	LEU
3	DC	103	SER
3	DC	120	PHE
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	157	ASN
3	DC	160	TYR
3	DC	162	SER
3	DC	165	ASP
3	DC	178	ASN
3	DC	188	LEU
3	DC	189	THR
3	DC	195	ASP
3	DC	204	VAL
3	DC	217	ARG
3	DC	222	LEU
3	DC	224	ASP
3	DD	15	MET
3	DD	16	SER
3	DD	18	VAL
3	DD	26	TYR
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

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Mol	Chain	Res	Type
3	DD	65	THR
3	DD	67	THR
3	DD	76	MET
3	DD	84	GLU
3	DD	86	HIS
3	DD	90	VAL
3	DD	93	LEU
3	DD	103	SER
3	DD	120	PHE
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	160	TYR
3	DD	162	SER
3	DD	165	ASP
3	DD	178	ASN
3	DD	188	LEU
3	DD	189	THR
3	DD	195	ASP
3	DD	204	VAL
3	DD	217	ARG
3	DD	222	LEU
3	DD	224	ASP
3	DE	15	MET
3	DE	16	SER
3	DE	18	VAL
3	DE	26	TYR
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

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Mol	Chain	Res	Type
3	DE	63	GLU
3	DE	65	THR
3	DE	67	THR
3	DE	76	MET
3	DE	84	GLU
3	DE	86	HIS
3	DE	90	VAL
3	DE	93	LEU
3	DE	103	SER
3	DE	120	PHE
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	157	ASN
3	DE	160	TYR
3	DE	162	SER
3	DE	165	ASP
3	DE	178	ASN
3	DE	188	LEU
3	DE	189	THR
3	DE	195	ASP
3	DE	204	VAL
3	DE	217	ARG
3	DE	222	LEU
3	DE	224	ASP
3	DF	15	MET
3	DF	16	SER
3	DF	18	VAL
3	DF	26	TYR
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

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Mol	Chain	Res	Type
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	84	GLU
3	DF	86	HIS
3	DF	90	VAL
3	DF	93	LEU
3	DF	103	SER
3	DF	120	PHE
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	157	ASN
3	DF	160	TYR
3	DF	162	SER
3	DF	165	ASP
3	DF	178	ASN
3	DF	188	LEU
3	DF	189	THR
3	DF	195	ASP
3	DF	204	VAL
3	DF	217	ARG
3	DF	222	LEU
3	DF	224	ASP
3	DG	15	MET
3	DG	16	SER
3	DG	18	VAL
3	DG	26	TYR
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

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Mol	Chain	Res	Type
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	84	GLU
3	DG	86	HIS
3	DG	90	VAL
3	DG	93	LEU
3	DG	103	SER
3	DG	120	PHE
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	157	ASN
3	DG	160	TYR
3	DG	162	SER
3	DG	165	ASP
3	DG	178	ASN
3	DG	188	LEU
3	DG	189	THR
3	DG	195	ASP
3	DG	204	VAL
3	DG	217	ARG
3	DG	222	LEU
3	DG	224	ASP
3	DH	15	MET
3	DH	16	SER
3	DH	18	VAL
3	DH	26	TYR
3	DH	31	VAL
3	DH	35	GLN
3	DH	36	VAL
3	DH	41	THR
3	DH	42	ASN

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Mol	Chain	Res	Type
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	84	GLU
3	DH	86	HIS
3	DH	90	VAL
3	DH	93	LEU
3	DH	103	SER
3	DH	120	PHE
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	157	ASN
3	DH	160	TYR
3	DH	162	SER
3	DH	165	ASP
3	DH	178	ASN
3	DH	188	LEU
3	DH	189	THR
3	DH	195	ASP
3	DH	204	VAL
3	DH	217	ARG
3	DH	222	LEU
3	DH	224	ASP
3	DI	15	MET
3	DI	16	SER
3	DI	18	VAL
3	DI	26	TYR
3	DI	31	VAL
3	DI	35	GLN
3	DI	36	VAL

Continued on next page...

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Mol	Chain	Res	Type
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	84	GLU
3	DI	86	HIS
3	DI	90	VAL
3	DI	93	LEU
3	DI	103	SER
3	DI	120	PHE
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	157	ASN
3	DI	160	TYR
3	DI	162	SER
3	DI	165	ASP
3	DI	178	ASN
3	DI	188	LEU
3	DI	189	THR
3	DI	195	ASP
3	DI	204	VAL
3	DI	217	ARG
3	DI	222	LEU
3	DI	224	ASP
3	DJ	15	MET
3	DJ	16	SER
3	DJ	18	VAL
3	DJ	26	TYR
3	DJ	31	VAL

Continued on next page...

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Mol	Chain	Res	Type
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	84	GLU
3	DJ	86	HIS
3	DJ	90	VAL
3	DJ	93	LEU
3	DJ	103	SER
3	DJ	120	PHE
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	157	ASN
3	DJ	160	TYR
3	DJ	162	SER
3	DJ	165	ASP
3	DJ	178	ASN
3	DJ	188	LEU
3	DJ	189	THR
3	DJ	195	ASP
3	DJ	204	VAL
3	DJ	217	ARG
3	DJ	222	LEU
3	DJ	224	ASP
3	DK	15	MET
3	DK	16	SER
3	DK	18	VAL

Continued on next page...

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Mol	Chain	Res	Type
3	DK	26	TYR
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	84	GLU
3	DK	86	HIS
3	DK	90	VAL
3	DK	93	LEU
3	DK	103	SER
3	DK	120	PHE
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	157	ASN
3	DK	160	TYR
3	DK	162	SER
3	DK	165	ASP
3	DK	178	ASN
3	DK	188	LEU
3	DK	189	THR
3	DK	195	ASP
3	DK	204	VAL
3	DK	217	ARG
3	DK	222	LEU
3	DK	224	ASP
3	DL	15	MET

Continued on next page...

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Mol	Chain	Res	Type
3	DL	16	SER
3	DL	18	VAL
3	DL	26	TYR
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	84	GLU
3	DL	86	HIS
3	DL	90	VAL
3	DL	93	LEU
3	DL	103	SER
3	DL	120	PHE
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	157	ASN
3	DL	160	TYR
3	DL	162	SER
3	DL	165	ASP
3	DL	178	ASN
3	DL	188	LEU
3	DL	189	THR
3	DL	195	ASP
3	DL	204	VAL
3	DL	217	ARG
3	DL	222	LEU

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Mol	Chain	Res	Type
3	DL	224	ASP
3	DM	15	MET
3	DM	16	SER
3	DM	18	VAL
3	DM	26	TYR
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	84	GLU
3	DM	86	HIS
3	DM	90	VAL
3	DM	93	LEU
3	DM	103	SER
3	DM	120	PHE
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	157	ASN
3	DM	160	TYR
3	DM	162	SER
3	DM	165	ASP
3	DM	178	ASN
3	DM	188	LEU
3	DM	189	THR
3	DM	195	ASP
3	DM	204	VAL

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Mol	Chain	Res	Type
3	DM	217	ARG
3	DM	222	LEU
3	DM	224	ASP
3	DN	15	MET
3	DN	16	SER
3	DN	18	VAL
3	DN	26	TYR
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	84	GLU
3	DN	86	HIS
3	DN	90	VAL
3	DN	93	LEU
3	DN	103	SER
3	DN	120	PHE
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	157	ASN
3	DN	160	TYR
3	DN	162	SER
3	DN	165	ASP
3	DN	178	ASN
3	DN	188	LEU
3	DN	189	THR

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Mol	Chain	Res	Type
3	DN	195	ASP
3	DN	204	VAL
3	DN	217	ARG
3	DN	222	LEU
3	DN	224	ASP
3	DO	15	MET
3	DO	16	SER
3	DO	18	VAL
3	DO	26	TYR
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	84	GLU
3	DO	86	HIS
3	DO	90	VAL
3	DO	93	LEU
3	DO	103	SER
3	DO	120	PHE
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	157	ASN
3	DO	160	TYR
3	DO	162	SER
3	DO	165	ASP
3	DO	178	ASN

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Mol	Chain	Res	Type
3	DO	188	LEU
3	DO	189	THR
3	DO	195	ASP
3	DO	204	VAL
3	DO	217	ARG
3	DO	222	LEU
3	DO	224	ASP
3	DP	15	MET
3	DP	16	SER
3	DP	18	VAL
3	DP	26	TYR
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	84	GLU
3	DP	86	HIS
3	DP	90	VAL
3	DP	93	LEU
3	DP	103	SER
3	DP	120	PHE
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	157	ASN
3	DP	160	TYR
3	DP	162	SER

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Mol	Chain	Res	Type
3	DP	165	ASP
3	DP	178	ASN
3	DP	188	LEU
3	DP	189	THR
3	DP	195	ASP
3	DP	204	VAL
3	DP	217	ARG
3	DP	222	LEU
3	DP	224	ASP
3	DQ	15	MET
3	DQ	16	SER
3	DQ	18	VAL
3	DQ	26	TYR
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	84	GLU
3	DQ	86	HIS
3	DQ	90	VAL
3	DQ	93	LEU
3	DQ	103	SER
3	DQ	120	PHE
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	157	ASN

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Mol	Chain	Res	Type
3	DQ	160	TYR
3	DQ	162	SER
3	DQ	165	ASP
3	DQ	178	ASN
3	DQ	188	LEU
3	DQ	189	THR
3	DQ	195	ASP
3	DQ	204	VAL
3	DQ	217	ARG
3	DQ	222	LEU
3	DQ	224	ASP
3	DR	15	MET
3	DR	16	SER
3	DR	18	VAL
3	DR	26	TYR
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	84	GLU
3	DR	86	HIS
3	DR	90	VAL
3	DR	93	LEU
3	DR	103	SER
3	DR	120	PHE
3	DR	133	LYS
3	DR	134	THR
3	DR	139	MET
3	DR	142	ILE
3	DR	146	TRP
3	DR	148	VAL

Continued on next page...

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Mol	Chain	Res	Type
3	DR	150	LEU
3	DR	157	ASN
3	DR	160	TYR
3	DR	162	SER
3	DR	165	ASP
3	DR	178	ASN
3	DR	188	LEU
3	DR	189	THR
3	DR	195	ASP
3	DR	204	VAL
3	DR	217	ARG
3	DR	222	LEU
3	DS	15	MET
3	DS	16	SER
3	DS	18	VAL
3	DS	26	TYR
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	84	GLU
3	DS	86	HIS
3	DS	90	VAL
3	DS	93	LEU
3	DS	103	SER
3	DS	120	PHE
3	DS	133	LYS
3	DS	134	THR
3	DS	139	MET
3	DS	142	ILE
3	DS	146	TRP

Continued on next page...

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Mol	Chain	Res	Type
3	DS	148	VAL
3	DS	150	LEU
3	DS	157	ASN
3	DS	160	TYR
3	DS	162	SER
3	DS	165	ASP
3	DS	178	ASN
3	DS	188	LEU
3	DS	189	THR
3	DS	195	ASP
3	DS	204	VAL
3	DS	217	ARG
3	DS	222	LEU
3	DS	224	ASP
3	DT	15	MET
3	DT	16	SER
3	DT	18	VAL
3	DT	26	TYR
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	84	GLU
3	DT	86	HIS
3	DT	90	VAL
3	DT	93	LEU
3	DT	103	SER
3	DT	120	PHE
3	DT	133	LYS
3	DT	134	THR
3	DT	139	MET

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Mol	Chain	Res	Type
3	DT	142	ILE
3	DT	146	TRP
3	DT	148	VAL
3	DT	150	LEU
3	DT	157	ASN
3	DT	160	TYR
3	DT	162	SER
3	DT	165	ASP
3	DT	178	ASN
3	DT	188	LEU
3	DT	189	THR
3	DT	195	ASP
3	DT	204	VAL
3	DT	217	ARG
3	DT	222	LEU
3	DT	224	ASP
3	DU	15	MET
3	DU	16	SER
3	DU	18	VAL
3	DU	26	TYR
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	84	GLU
3	DU	86	HIS
3	DU	90	VAL
3	DU	93	LEU
3	DU	103	SER
3	DU	120	PHE
3	DU	133	LYS

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Mol	Chain	Res	Type
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	157	ASN
3	DU	160	TYR
3	DU	162	SER
3	DU	165	ASP
3	DU	178	ASN
3	DU	188	LEU
3	DU	189	THR
3	DU	195	ASP
3	DU	204	VAL
3	DU	217	ARG
3	DU	222	LEU
3	DU	224	ASP
3	DV	15	MET
3	DV	16	SER
3	DV	18	VAL
3	DV	26	TYR
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	84	GLU
3	DV	86	HIS
3	DV	90	VAL
3	DV	93	LEU
3	DV	103	SER

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Mol	Chain	Res	Type
3	DV	120	PHE
3	DV	133	LYS
3	DV	134	THR
3	DV	139	MET
3	DV	142	ILE
3	DV	146	TRP
3	DV	148	VAL
3	DV	150	LEU
3	DV	157	ASN
3	DV	160	TYR
3	DV	162	SER
3	DV	165	ASP
3	DV	178	ASN
3	DV	188	LEU
3	DV	189	THR
3	DV	195	ASP
3	DV	204	VAL
3	DV	217	ARG
3	DV	222	LEU
3	DV	224	ASP
3	DW	15	MET
3	DW	16	SER
3	DW	18	VAL
3	DW	26	TYR
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	84	GLU
3	DW	86	HIS
3	DW	90	VAL

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Mol	Chain	Res	Type
3	DW	93	LEU
3	DW	103	SER
3	DW	120	PHE
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	157	ASN
3	DW	160	TYR
3	DW	162	SER
3	DW	165	ASP
3	DW	178	ASN
3	DW	188	LEU
3	DW	189	THR
3	DW	195	ASP
3	DW	204	VAL
3	DW	217	ARG
3	DW	222	LEU
3	DW	224	ASP
3	DX	15	MET
3	DX	16	SER
3	DX	18	VAL
3	DX	26	TYR
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	84	GLU

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Mol	Chain	Res	Type
3	DX	86	HIS
3	DX	90	VAL
3	DX	93	LEU
3	DX	103	SER
3	DX	120	PHE
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	157	ASN
3	DX	160	TYR
3	DX	162	SER
3	DX	165	ASP
3	DX	178	ASN
3	DX	188	LEU
3	DX	189	THR
3	DX	195	ASP
3	DX	204	VAL
3	DX	217	ARG
3	DX	222	LEU
3	DX	224	ASP
3	DY	15	MET
3	DY	16	SER
3	DY	18	VAL
3	DY	26	TYR
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
3	DY	65	THR
3	DY	67	THR

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Mol	Chain	Res	Type
3	DY	76	MET
3	DY	84	GLU
3	DY	86	HIS
3	DY	90	VAL
3	DY	93	LEU
3	DY	103	SER
3	DY	120	PHE
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	157	ASN
3	DY	160	TYR
3	DY	162	SER
3	DY	165	ASP
3	DY	178	ASN
3	DY	188	LEU
3	DY	189	THR
3	DY	195	ASP
3	DY	204	VAL
3	DY	217	ARG
3	DY	222	LEU
3	DY	224	ASP
3	DZ	15	MET
3	DZ	16	SER
3	DZ	18	VAL
3	DZ	26	TYR
3	DZ	31	VAL
3	DZ	35	GLN
3	DZ	36	VAL
3	DZ	41	THR
3	DZ	42	ASN
3	DZ	46	VAL
3	DZ	50	THR
3	DZ	51	TYR
3	DZ	54	CYS
3	DZ	56	ILE
3	DZ	59	LYS
3	DZ	63	GLU

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Mol	Chain	Res	Type
3	DZ	65	THR
3	DZ	67	THR
3	DZ	76	MET
3	DZ	84	GLU
3	DZ	86	HIS
3	DZ	90	VAL
3	DZ	93	LEU
3	DZ	103	SER
3	DZ	120	PHE
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	157	ASN
3	DZ	160	TYR
3	DZ	162	SER
3	DZ	165	ASP
3	DZ	178	ASN
3	DZ	188	LEU
3	DZ	189	THR
3	DZ	195	ASP
3	DZ	204	VAL
3	DZ	217	ARG
3	DZ	222	LEU
3	DZ	224	ASP
3	Da	15	MET
3	Da	16	SER
3	Da	18	VAL
3	Da	26	TYR
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

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Mol	Chain	Res	Type
3	Da	59	LYS
3	Da	63	GLU
3	Da	65	THR
3	Da	67	THR
3	Da	76	MET
3	Da	84	GLU
3	Da	86	HIS
3	Da	90	VAL
3	Da	93	LEU
3	Da	103	SER
3	Da	120	PHE
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	157	ASN
3	Da	160	TYR
3	Da	162	SER
3	Da	165	ASP
3	Da	178	ASN
3	Da	188	LEU
3	Da	189	THR
3	Da	195	ASP
3	Da	204	VAL
3	Da	217	ARG
3	Da	222	LEU
3	Da	224	ASP
3	Db	15	MET
3	Db	16	SER
3	Db	18	VAL
3	Db	26	TYR
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

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Mol	Chain	Res	Type
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	84	GLU
3	Db	86	HIS
3	Db	90	VAL
3	Db	93	LEU
3	Db	103	SER
3	Db	120	PHE
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	157	ASN
3	Db	160	TYR
3	Db	162	SER
3	Db	165	ASP
3	Db	178	ASN
3	Db	188	LEU
3	Db	189	THR
3	Db	195	ASP
3	Db	204	VAL
3	Db	217	ARG
3	Db	222	LEU
3	Db	224	ASP
3	Dc	15	MET
3	Dc	16	SER
3	Dc	18	VAL
3	Dc	26	TYR
3	Dc	31	VAL
3	Dc	35	GLN
3	Dc	36	VAL
3	Dc	41	THR
3	Dc	42	ASN
3	Dc	46	VAL

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Mol	Chain	Res	Type
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	84	GLU
3	Dc	86	HIS
3	Dc	90	VAL
3	Dc	93	LEU
3	Dc	103	SER
3	Dc	120	PHE
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	157	ASN
3	Dc	160	TYR
3	Dc	162	SER
3	Dc	165	ASP
3	Dc	178	ASN
3	Dc	188	LEU
3	Dc	189	THR
3	Dc	195	ASP
3	Dc	204	VAL
3	Dc	217	ARG
3	Dc	222	LEU
3	Dc	224	ASP
3	Dd	15	MET
3	Dd	16	SER
3	Dd	18	VAL
3	Dd	26	TYR
3	Dd	31	VAL
3	Dd	35	GLN
3	Dd	36	VAL
3	Dd	41	THR

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Mol	Chain	Res	Type
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	84	GLU
3	Dd	86	HIS
3	Dd	90	VAL
3	Dd	93	LEU
3	Dd	103	SER
3	Dd	120	PHE
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	157	ASN
3	Dd	160	TYR
3	Dd	162	SER
3	Dd	165	ASP
3	Dd	178	ASN
3	Dd	188	LEU
3	Dd	189	THR
3	Dd	195	ASP
3	Dd	204	VAL
3	Dd	217	ARG
3	Dd	222	LEU
3	Dd	224	ASP
3	De	15	MET
3	De	16	SER
3	De	18	VAL
3	De	26	TYR
3	De	31	VAL
3	De	35	GLN

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Mol	Chain	Res	Type
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	84	GLU
3	De	86	HIS
3	De	90	VAL
3	De	93	LEU
3	De	103	SER
3	De	120	PHE
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	157	ASN
3	De	160	TYR
3	De	162	SER
3	De	165	ASP
3	De	178	ASN
3	De	188	LEU
3	De	189	THR
3	De	195	ASP
3	De	204	VAL
3	De	217	ARG
3	De	222	LEU
3	De	224	ASP
3	Df	15	MET
3	Df	16	SER
3	Df	18	VAL
3	Df	26	TYR

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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	84	GLU
3	Df	86	HIS
3	Df	90	VAL
3	Df	93	LEU
3	Df	103	SER
3	Df	120	PHE
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	157	ASN
3	Df	160	TYR
3	Df	162	SER
3	Df	165	ASP
3	Df	178	ASN
3	Df	188	LEU
3	Df	189	THR
3	Df	195	ASP
3	Df	204	VAL
3	Df	217	ARG
3	Df	222	LEU
3	Df	224	ASP
3	Dg	15	MET
3	Dg	16	SER

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Mol	Chain	Res	Type
3	Dg	18	VAL
3	Dg	26	TYR
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	84	GLU
3	Dg	86	HIS
3	Dg	90	VAL
3	Dg	93	LEU
3	Dg	103	SER
3	Dg	120	PHE
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	157	ASN
3	Dg	160	TYR
3	Dg	162	SER
3	Dg	165	ASP
3	Dg	178	ASN
3	Dg	188	LEU
3	Dg	189	THR
3	Dg	195	ASP
3	Dg	204	VAL
3	Dg	217	ARG
3	Dg	222	LEU
3	Dg	224	ASP

Continued on next page...

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Mol	Chain	Res	Type
3	Dh	15	MET
3	Dh	16	SER
3	Dh	18	VAL
3	Dh	26	TYR
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	84	GLU
3	Dh	86	HIS
3	Dh	90	VAL
3	Dh	93	LEU
3	Dh	103	SER
3	Dh	120	PHE
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	157	ASN
3	Dh	160	TYR
3	Dh	162	SER
3	Dh	165	ASP
3	Dh	178	ASN
3	Dh	188	LEU
3	Dh	189	THR
3	Dh	195	ASP
3	Dh	204	VAL
3	Dh	217	ARG

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Mol	Chain	Res	Type
3	Dh	222	LEU
3	Dh	224	ASP
3	Di	15	MET
3	Di	16	SER
3	Di	18	VAL
3	Di	26	TYR
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	84	GLU
3	Di	86	HIS
3	Di	90	VAL
3	Di	93	LEU
3	Di	103	SER
3	Di	120	PHE
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	157	ASN
3	Di	160	TYR
3	Di	162	SER
3	Di	165	ASP
3	Di	178	ASN
3	Di	188	LEU
3	Di	189	THR
3	Di	195	ASP

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Mol	Chain	Res	Type
3	Di	204	VAL
3	Di	217	ARG
3	Di	222	LEU
3	Di	224	ASP
3	Dj	15	MET
3	Dj	16	SER
3	Dj	18	VAL
3	Dj	26	TYR
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	84	GLU
3	Dj	86	HIS
3	Dj	90	VAL
3	Dj	93	LEU
3	Dj	103	SER
3	Dj	120	PHE
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	157	ASN
3	Dj	160	TYR
3	Dj	162	SER
3	Dj	165	ASP
3	Dj	178	ASN
3	Dj	188	LEU

Continued on next page...

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Mol	Chain	Res	Type
3	Dj	189	THR
3	Dj	195	ASP
3	Dj	204	VAL
3	Dj	217	ARG
3	Dj	222	LEU
3	Dk	15	MET
3	Dk	16	SER
3	Dk	18	VAL
3	Dk	26	TYR
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	84	GLU
3	Dk	86	HIS
3	Dk	90	VAL
3	Dk	93	LEU
3	Dk	103	SER
3	Dk	120	PHE
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	157	ASN
3	Dk	160	TYR
3	Dk	162	SER
3	Dk	165	ASP
3	Dk	178	ASN

Continued on next page...

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Mol	Chain	Res	Type
3	Dk	188	LEU
3	Dk	189	THR
3	Dk	195	ASP
3	Dk	204	VAL
3	Dk	217	ARG
3	Dk	222	LEU
3	Dk	224	ASP
3	Dl	15	MET
3	Dl	16	SER
3	Dl	18	VAL
3	Dl	26	TYR
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	84	GLU
3	Dl	86	HIS
3	Dl	90	VAL
3	Dl	93	LEU
3	Dl	103	SER
3	Dl	120	PHE
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	157	ASN
3	Dl	160	TYR
3	Dl	162	SER

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Mol	Chain	Res	Type
3	Dl	165	ASP
3	Dl	178	ASN
3	Dl	188	LEU
3	Dl	189	THR
3	Dl	195	ASP
3	Dl	204	VAL
3	Dl	217	ARG
3	Dl	222	LEU
3	Dl	224	ASP
3	Dm	15	MET
3	Dm	16	SER
3	Dm	18	VAL
3	Dm	26	TYR
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	84	GLU
3	Dm	86	HIS
3	Dm	90	VAL
3	Dm	93	LEU
3	Dm	103	SER
3	Dm	120	PHE
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	157	ASN

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Mol	Chain	Res	Type
3	Dm	160	TYR
3	Dm	162	SER
3	Dm	165	ASP
3	Dm	178	ASN
3	Dm	188	LEU
3	Dm	189	THR
3	Dm	195	ASP
3	Dm	204	VAL
3	Dm	217	ARG
3	Dm	222	LEU
3	Dm	224	ASP
3	Dn	15	MET
3	Dn	16	SER
3	Dn	18	VAL
3	Dn	26	TYR
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	84	GLU
3	Dn	86	HIS
3	Dn	90	VAL
3	Dn	93	LEU
3	Dn	103	SER
3	Dn	120	PHE
3	Dn	133	LYS
3	Dn	134	THR
3	Dn	139	MET
3	Dn	142	ILE
3	Dn	146	TRP
3	Dn	148	VAL

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Mol	Chain	Res	Type
3	Dn	150	LEU
3	Dn	157	ASN
3	Dn	160	TYR
3	Dn	162	SER
3	Dn	165	ASP
3	Dn	178	ASN
3	Dn	188	LEU
3	Dn	189	THR
3	Dn	195	ASP
3	Dn	204	VAL
3	Dn	217	ARG
3	Dn	222	LEU
3	Dn	224	ASP
3	Do	15	MET
3	Do	16	SER
3	Do	18	VAL
3	Do	26	TYR
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	84	GLU
3	Do	86	HIS
3	Do	90	VAL
3	Do	93	LEU
3	Do	103	SER
3	Do	120	PHE
3	Do	133	LYS
3	Do	134	THR
3	Do	139	MET
3	Do	142	ILE

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Mol	Chain	Res	Type
3	Do	146	TRP
3	Do	148	VAL
3	Do	150	LEU
3	Do	157	ASN
3	Do	160	TYR
3	Do	162	SER
3	Do	165	ASP
3	Do	178	ASN
3	Do	188	LEU
3	Do	189	THR
3	Do	195	ASP
3	Do	204	VAL
3	Do	217	ARG
3	Do	222	LEU
3	Do	224	ASP
3	Dp	15	MET
3	Dp	16	SER
3	Dp	18	VAL
3	Dp	26	TYR
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	84	GLU
3	Dp	86	HIS
3	Dp	90	VAL
3	Dp	93	LEU
3	Dp	103	SER
3	Dp	120	PHE
3	Dp	133	LYS
3	Dp	134	THR

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Mol	Chain	Res	Type
3	Dp	139	MET
3	Dp	142	ILE
3	Dp	146	TRP
3	Dp	148	VAL
3	Dp	150	LEU
3	Dp	157	ASN
3	Dp	160	TYR
3	Dp	162	SER
3	Dp	165	ASP
3	Dp	178	ASN
3	Dp	188	LEU
3	Dp	189	THR
3	Dp	195	ASP
3	Dp	204	VAL
3	Dp	217	ARG
3	Dp	222	LEU
3	Dp	224	ASP
3	Dq	15	MET
3	Dq	16	SER
3	Dq	18	VAL
3	Dq	26	TYR
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	84	GLU
3	Dq	86	HIS
3	Dq	90	VAL
3	Dq	93	LEU
3	Dq	103	SER
3	Dq	120	PHE

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Mol	Chain	Res	Type
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	157	ASN
3	Dq	160	TYR
3	Dq	162	SER
3	Dq	165	ASP
3	Dq	178	ASN
3	Dq	188	LEU
3	Dq	189	THR
3	Dq	195	ASP
3	Dq	204	VAL
3	Dq	217	ARG
3	Dq	222	LEU
3	Dr	15	MET
3	Dr	16	SER
3	Dr	18	VAL
3	Dr	26	TYR
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	84	GLU
3	Dr	86	HIS
3	Dr	90	VAL
3	Dr	93	LEU
3	Dr	103	SER

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Mol	Chain	Res	Type
3	Dr	120	PHE
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	157	ASN
3	Dr	160	TYR
3	Dr	162	SER
3	Dr	165	ASP
3	Dr	178	ASN
3	Dr	188	LEU
3	Dr	189	THR
3	Dr	195	ASP
3	Dr	204	VAL
3	Dr	217	ARG
3	Dr	222	LEU
3	Dr	224	ASP
3	Ds	15	MET
3	Ds	16	SER
3	Ds	18	VAL
3	Ds	26	TYR
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	84	GLU
3	Ds	86	HIS
3	Ds	90	VAL

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Mol	Chain	Res	Type
3	Ds	93	LEU
3	Ds	103	SER
3	Ds	120	PHE
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	157	ASN
3	Ds	160	TYR
3	Ds	162	SER
3	Ds	165	ASP
3	Ds	178	ASN
3	Ds	188	LEU
3	Ds	189	THR
3	Ds	195	ASP
3	Ds	204	VAL
3	Ds	217	ARG
3	Ds	222	LEU
3	Ds	224	ASP
3	EA	15	MET
3	EA	16	SER
3	EA	18	VAL
3	EA	26	TYR
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
3	EA	65	THR
3	EA	67	THR
3	EA	76	MET
3	EA	84	GLU

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Mol	Chain	Res	Type
3	EA	86	HIS
3	EA	90	VAL
3	EA	93	LEU
3	EA	103	SER
3	EA	120	PHE
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	157	ASN
3	EA	160	TYR
3	EA	162	SER
3	EA	165	ASP
3	EA	178	ASN
3	EA	188	LEU
3	EA	189	THR
3	EA	195	ASP
3	EA	204	VAL
3	EA	217	ARG
3	EA	222	LEU
3	EA	224	ASP
3	EB	15	MET
3	EB	16	SER
3	EB	18	VAL
3	EB	26	TYR
3	EB	31	VAL
3	EB	35	GLN
3	EB	36	VAL
3	EB	41	THR
3	EB	42	ASN
3	EB	46	VAL
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

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Mol	Chain	Res	Type
3	EB	76	MET
3	EB	84	GLU
3	EB	86	HIS
3	EB	90	VAL
3	EB	93	LEU
3	EB	103	SER
3	EB	120	PHE
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	157	ASN
3	EB	160	TYR
3	EB	162	SER
3	EB	165	ASP
3	EB	178	ASN
3	EB	188	LEU
3	EB	189	THR
3	EB	195	ASP
3	EB	204	VAL
3	EB	217	ARG
3	EB	222	LEU
3	EB	224	ASP
3	EC	15	MET
3	EC	16	SER
3	EC	18	VAL
3	EC	26	TYR
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

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Mol	Chain	Res	Type
3	EC	65	THR
3	EC	67	THR
3	EC	76	MET
3	EC	84	GLU
3	EC	86	HIS
3	EC	90	VAL
3	EC	93	LEU
3	EC	103	SER
3	EC	120	PHE
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	157	ASN
3	EC	160	TYR
3	EC	162	SER
3	EC	165	ASP
3	EC	178	ASN
3	EC	188	LEU
3	EC	189	THR
3	EC	195	ASP
3	EC	204	VAL
3	EC	217	ARG
3	EC	222	LEU
3	EC	224	ASP
3	ED	15	MET
3	ED	16	SER
3	ED	18	VAL
3	ED	26	TYR
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

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Mol	Chain	Res	Type
3	ED	59	LYS
3	ED	63	GLU
3	ED	65	THR
3	ED	67	THR
3	ED	76	MET
3	ED	84	GLU
3	ED	86	HIS
3	ED	90	VAL
3	ED	93	LEU
3	ED	103	SER
3	ED	120	PHE
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	157	ASN
3	ED	160	TYR
3	ED	162	SER
3	ED	165	ASP
3	ED	178	ASN
3	ED	188	LEU
3	ED	189	THR
3	ED	195	ASP
3	ED	204	VAL
3	ED	217	ARG
3	ED	222	LEU
3	ED	224	ASP
3	EE	15	MET
3	EE	16	SER
3	EE	18	VAL
3	EE	26	TYR
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

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Mol	Chain	Res	Type
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	84	GLU
3	EE	86	HIS
3	EE	90	VAL
3	EE	93	LEU
3	EE	103	SER
3	EE	120	PHE
3	EE	133	LYS
3	EE	134	THR
3	EE	139	MET
3	EE	142	ILE
3	EE	146	TRP
3	EE	148	VAL
3	EE	150	LEU
3	EE	157	ASN
3	EE	160	TYR
3	EE	162	SER
3	EE	165	ASP
3	EE	178	ASN
3	EE	188	LEU
3	EE	189	THR
3	EE	195	ASP
3	EE	204	VAL
3	EE	217	ARG
3	EE	222	LEU
3	EE	224	ASP
4	F0	17	ASN
4	F0	30	TYR
4	F0	31	GLN
4	F0	33	SER
4	F0	35	ASP
4	F1	17	ASN
4	F1	30	TYR
4	F1	31	GLN
4	F1	33	SER
4	F1	35	ASP

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Mol	Chain	Res	Type
4	F2	17	ASN
4	F2	30	TYR
4	F2	31	GLN
4	F2	33	SER
4	F2	35	ASP
4	F3	17	ASN
4	F3	30	TYR
4	F3	31	GLN
4	F3	33	SER
4	F3	35	ASP
4	F4	17	ASN
4	F4	30	TYR
4	F4	31	GLN
4	F4	33	SER
4	F4	35	ASP
4	F5	17	ASN
4	F5	30	TYR
4	F5	31	GLN
4	F5	33	SER
4	F5	35	ASP
4	F6	17	ASN
4	F6	30	TYR
4	F6	31	GLN
4	F6	33	SER
4	F6	35	ASP
4	F7	17	ASN
4	F7	30	TYR
4	F7	31	GLN
4	F7	33	SER
4	F7	35	ASP
4	F8	17	ASN
4	F8	30	TYR
4	F8	31	GLN
4	F8	33	SER
4	F8	35	ASP
4	F9	17	ASN
4	F9	30	TYR
4	F9	31	GLN
4	F9	33	SER
4	F9	35	ASP
4	FA	17	ASN
4	FA	30	TYR

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Mol	Chain	Res	Type
4	FA	31	GLN
4	FA	33	SER
4	FA	35	ASP
4	FB	17	ASN
4	FB	30	TYR
4	FB	31	GLN
4	FB	33	SER
4	FB	35	ASP
4	FC	17	ASN
4	FC	30	TYR
4	FC	31	GLN
4	FC	33	SER
4	FC	35	ASP
4	FD	17	ASN
4	FD	30	TYR
4	FD	31	GLN
4	FD	33	SER
4	FD	35	ASP
4	FE	17	ASN
4	FE	30	TYR
4	FE	31	GLN
4	FE	33	SER
4	FE	35	ASP
4	FF	17	ASN
4	FF	30	TYR
4	FF	31	GLN
4	FF	33	SER
4	FF	35	ASP
4	FG	17	ASN
4	FG	30	TYR
4	FG	31	GLN
4	FG	33	SER
4	FG	35	ASP
4	FH	17	ASN
4	FH	30	TYR
4	FH	31	GLN
4	FH	33	SER
4	FH	35	ASP
4	FI	17	ASN
4	FI	30	TYR
4	FI	31	GLN
4	FI	33	SER

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Mol	Chain	Res	Type
4	FI	35	ASP
4	FJ	17	ASN
4	FJ	30	TYR
4	FJ	31	GLN
4	FJ	33	SER
4	FJ	35	ASP
4	FK	17	ASN
4	FK	30	TYR
4	FK	31	GLN
4	FK	33	SER
4	FK	35	ASP
4	FL	17	ASN
4	FL	30	TYR
4	FL	31	GLN
4	FL	33	SER
4	FL	35	ASP
4	FM	17	ASN
4	FM	30	TYR
4	FM	31	GLN
4	FM	33	SER
4	FM	35	ASP
4	FN	17	ASN
4	FN	30	TYR
4	FN	31	GLN
4	FN	33	SER
4	FN	35	ASP
4	FO	17	ASN
4	FO	30	TYR
4	FO	31	GLN
4	FO	33	SER
4	FO	35	ASP
4	FP	17	ASN
4	FP	30	TYR
4	FP	31	GLN
4	FP	33	SER
4	FP	35	ASP
4	FQ	17	ASN
4	FQ	30	TYR
4	FQ	31	GLN
4	FQ	33	SER
4	FQ	35	ASP
4	FR	17	ASN

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Mol	Chain	Res	Type
4	FR	30	TYR
4	FR	31	GLN
4	FR	33	SER
4	FR	35	ASP
4	FS	17	ASN
4	FS	30	TYR
4	FS	31	GLN
4	FS	33	SER
4	FS	35	ASP
4	FT	17	ASN
4	FT	30	TYR
4	FT	31	GLN
4	FT	33	SER
4	FT	35	ASP
4	FU	17	ASN
4	FU	30	TYR
4	FU	31	GLN
4	FU	33	SER
4	FU	35	ASP
4	FV	17	ASN
4	FV	30	TYR
4	FV	31	GLN
4	FV	33	SER
4	FV	35	ASP
4	FW	17	ASN
4	FW	30	TYR
4	FW	31	GLN
4	FW	33	SER
4	FW	35	ASP
4	FX	17	ASN
4	FX	30	TYR
4	FX	31	GLN
4	FX	33	SER
4	FX	35	ASP
4	FY	17	ASN
4	FY	30	TYR
4	FY	31	GLN
4	FY	33	SER
4	FY	35	ASP
4	FZ	17	ASN
4	FZ	30	TYR
4	FZ	31	GLN

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Mol	Chain	Res	Type
4	FZ	33	SER
4	FZ	35	ASP
4	Fa	17	ASN
4	Fa	30	TYR
4	Fa	31	GLN
4	Fa	33	SER
4	Fa	35	ASP
4	Fb	17	ASN
4	Fb	30	TYR
4	Fb	31	GLN
4	Fb	33	SER
4	Fb	35	ASP
4	Fc	17	ASN
4	Fc	30	TYR
4	Fc	31	GLN
4	Fc	33	SER
4	Fc	35	ASP
4	Fd	17	ASN
4	Fd	30	TYR
4	Fd	31	GLN
4	Fd	33	SER
4	Fd	35	ASP
4	Fe	17	ASN
4	Fe	30	TYR
4	Fe	31	GLN
4	Fe	33	SER
4	Fe	35	ASP
4	Ff	17	ASN
4	Ff	30	TYR
4	Ff	31	GLN
4	Ff	33	SER
4	Ff	35	ASP
4	Fg	17	ASN
4	Fg	30	TYR
4	Fg	31	GLN
4	Fg	33	SER
4	Fg	35	ASP
4	Fh	17	ASN
4	Fh	30	TYR
4	Fh	31	GLN
4	Fh	33	SER
4	Fh	35	ASP

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Mol	Chain	Res	Type
4	Fi	17	ASN
4	Fi	30	TYR
4	Fi	31	GLN
4	Fi	33	SER
4	Fi	35	ASP
4	Fj	17	ASN
4	Fj	30	TYR
4	Fj	31	GLN
4	Fj	33	SER
4	Fj	35	ASP
4	Fk	17	ASN
4	Fk	30	TYR
4	Fk	31	GLN
4	Fk	33	SER
4	Fk	35	ASP
4	Fl	17	ASN
4	Fl	30	TYR
4	Fl	31	GLN
4	Fl	33	SER
4	Fl	35	ASP
4	Fm	17	ASN
4	Fm	30	TYR
4	Fm	31	GLN
4	Fm	33	SER
4	Fm	35	ASP
4	Fn	17	ASN
4	Fn	30	TYR
4	Fn	31	GLN
4	Fn	33	SER
4	Fn	35	ASP
4	Fo	17	ASN
4	Fo	30	TYR
4	Fo	31	GLN
4	Fo	33	SER
4	Fo	35	ASP
4	Fp	17	ASN
4	Fp	30	TYR
4	Fp	31	GLN
4	Fp	33	SER
4	Fp	35	ASP
4	Fq	17	ASN
4	Fq	30	TYR

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Mol	Chain	Res	Type
4	Fq	31	GLN
4	Fq	33	SER
4	Fq	35	ASP
4	Fr	17	ASN
4	Fr	30	TYR
4	Fr	31	GLN
4	Fr	33	SER
4	Fr	35	ASP
4	Fs	17	ASN
4	Fs	30	TYR
4	Fs	31	GLN
4	Fs	33	SER
4	Fs	35	ASP
4	Ft	17	ASN
4	Ft	30	TYR
4	Ft	31	GLN
4	Ft	33	SER
4	Ft	35	ASP
4	Fu	17	ASN
4	Fu	30	TYR
4	Fu	31	GLN
4	Fu	33	SER
4	Fu	35	ASP
4	Fv	17	ASN
4	Fv	30	TYR
4	Fv	31	GLN
4	Fv	33	SER
4	Fv	35	ASP
4	Fw	17	ASN
4	Fw	30	TYR
4	Fw	31	GLN
4	Fw	33	SER
4	Fw	35	ASP
4	Fx	17	ASN
4	Fx	30	TYR
4	Fx	31	GLN
4	Fx	33	SER
4	Fx	35	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1352) such sidechains are listed below:

Mol	Chain	Res	Type
1	A0	27	HIS
1	A0	47	ASN
1	A0	73	ASN
1	A0	87	GLN
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	87	GLN
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	87	GLN
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	27	HIS
1	A4	47	ASN
1	A4	73	ASN
1	A4	87	GLN
1	A4	152	GLN
1	A4	191	HIS
1	A4	202	HIS
1	A4	242	ASN
1	A5	27	HIS
1	A5	47	ASN
1	A5	73	ASN
1	A5	152	GLN

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Mol	Chain	Res	Type
1	A5	191	HIS
1	A5	202	HIS
1	A5	242	ASN
1	A6	27	HIS
1	A6	47	ASN
1	A6	73	ASN
1	A6	87	GLN
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	87	GLN
1	A7	152	GLN
1	A7	191	HIS
1	A7	202	HIS
1	A7	242	ASN
1	A8	27	HIS
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
1	AB	27	HIS

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Mol	Chain	Res	Type
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	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	27	HIS
1	AG	47	ASN
1	AG	73	ASN
1	AG	152	GLN
1	AG	191	HIS
1	AG	202	HIS

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Mol	Chain	Res	Type
1	AG	242	ASN
1	AH	27	HIS
1	AH	47	ASN
1	AH	73	ASN
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	87	GLN
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	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	27	HIS
1	AL	47	ASN
1	AL	73	ASN
1	AL	87	GLN
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	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	87	GLN
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	152	GLN
1	AR	191	HIS
1	AR	202	HIS
1	AR	242	ASN
1	AS	27	HIS
1	AS	47	ASN
1	AS	73	ASN

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Mol	Chain	Res	Type
1	AS	152	GLN
1	AS	191	HIS
1	AS	202	HIS
1	AS	242	ASN
1	AT	27	HIS
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	87	GLN
1	AU	152	GLN
1	AU	191	HIS
1	AU	202	HIS
1	AU	242	ASN
1	AV	27	HIS
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	27	HIS
1	AX	47	ASN
1	AX	73	ASN
1	AX	87	GLN
1	AX	152	GLN
1	AX	191	HIS
1	AX	202	HIS
1	AX	242	ASN
1	AY	27	HIS

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Mol	Chain	Res	Type
1	AY	47	ASN
1	AY	73	ASN
1	AY	87	GLN
1	AY	152	GLN
1	AY	191	HIS
1	AY	202	HIS
1	AY	242	ASN
1	AZ	27	HIS
1	AZ	47	ASN
1	AZ	73	ASN
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	27	HIS
1	Ab	47	ASN
1	Ab	73	ASN
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

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Mol	Chain	Res	Type
1	Ad	242	ASN
1	Ae	27	HIS
1	Ae	47	ASN
1	Ae	73	ASN
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	27	HIS
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	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	87	GLN
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	202	HIS
1	Aj	242	ASN

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Mol	Chain	Res	Type
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	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	27	HIS
1	Am	47	ASN
1	Am	73	ASN
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	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	BA	27	HIS
1	BA	47	ASN
1	BA	73	ASN
1	BA	87	GLN
1	BA	152	GLN

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Mol	Chain	Res	Type
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
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	87	GLN
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	27	HIS
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	27	HIS
1	BF	47	ASN
1	BF	73	ASN
1	BF	152	GLN
1	BF	202	HIS
1	BF	242	ASN
1	BG	27	HIS
1	BG	47	ASN
1	BG	73	ASN

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Mol	Chain	Res	Type
1	BG	87	GLN
1	BG	152	GLN
1	BG	191	HIS
1	BG	202	HIS
1	BG	242	ASN
1	BH	27	HIS
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
1	BI	47	ASN
1	BI	73	ASN
1	BI	87	GLN
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	189	HIS
2	C0	223	ASN
2	C1	73	GLN
2	C1	95	HIS
2	C1	134	HIS
2	C1	136	HIS
2	C1	153	GLN
2	C1	189	HIS
2	C1	223	ASN
2	C2	73	GLN
2	C2	95	HIS
2	C2	134	HIS
2	C2	153	GLN
2	C2	189	HIS
2	C2	223	ASN
2	C3	73	GLN
2	C3	95	HIS
2	C3	134	HIS
2	C3	136	HIS

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Mol	Chain	Res	Type
2	C3	153	GLN
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	189	HIS
2	C4	223	ASN
2	C5	73	GLN
2	C5	95	HIS
2	C5	134	HIS
2	C5	136	HIS
2	C5	153	GLN
2	C5	189	HIS
2	C5	223	ASN
2	C6	73	GLN
2	C6	95	HIS
2	C6	134	HIS
2	C6	136	HIS
2	C6	153	GLN
2	C6	189	HIS
2	C6	223	ASN
2	C7	73	GLN
2	C7	95	HIS
2	C7	134	HIS
2	C7	153	GLN
2	C7	189	HIS
2	C7	223	ASN
2	C8	73	GLN
2	C8	95	HIS
2	C8	134	HIS
2	C8	153	GLN
2	C8	189	HIS
2	C8	223	ASN
2	C9	73	GLN
2	C9	95	HIS
2	C9	134	HIS
2	C9	153	GLN
2	C9	189	HIS
2	C9	223	ASN
2	CA	73	GLN

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Mol	Chain	Res	Type
2	CA	95	HIS
2	CA	134	HIS
2	CA	136	HIS
2	CA	153	GLN
2	CA	189	HIS
2	CA	223	ASN
2	CB	73	GLN
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	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	95	HIS
2	CD	134	HIS
2	CD	136	HIS
2	CD	153	GLN
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
2	CE	189	HIS
2	CE	223	ASN
2	CF	73	GLN
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	95	HIS
2	CG	134	HIS

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Mol	Chain	Res	Type
2	CG	136	HIS
2	CG	153	GLN
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	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	189	HIS
2	CK	223	ASN
2	CL	73	GLN
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	153	GLN
2	CM	189	HIS
2	CM	223	ASN

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Mol	Chain	Res	Type
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	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	153	GLN
2	CP	189	HIS
2	CP	223	ASN
2	CQ	73	GLN
2	CQ	95	HIS
2	CQ	134	HIS
2	CQ	136	HIS
2	CQ	153	GLN
2	CQ	189	HIS
2	CQ	223	ASN
2	CR	73	GLN
2	CR	95	HIS
2	CR	134	HIS
2	CR	153	GLN
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	153	GLN
2	CS	189	HIS
2	CS	223	ASN
2	CT	73	GLN
2	CT	95	HIS

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Mol	Chain	Res	Type
2	CT	134	HIS
2	CT	136	HIS
2	CT	189	HIS
2	CT	223	ASN
2	CU	73	GLN
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	95	HIS
2	CV	134	HIS
2	CV	136	HIS
2	CV	153	GLN
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	189	HIS
2	CW	223	ASN
2	CX	73	GLN
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	153	GLN
2	CY	189	HIS
2	CY	223	ASN
2	CZ	73	GLN
2	CZ	95	HIS
2	CZ	134	HIS
2	CZ	136	HIS

Continued on next page...

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Mol	Chain	Res	Type
2	CZ	153	GLN
2	CZ	189	HIS
2	CZ	223	ASN
2	Ca	73	GLN
2	Ca	95	HIS
2	Ca	134	HIS
2	Ca	136	HIS
2	Ca	153	GLN
2	Ca	189	HIS
2	Ca	223	ASN
2	Cb	73	GLN
2	Cb	95	HIS
2	Cb	134	HIS
2	Cb	136	HIS
2	Cb	153	GLN
2	Cb	189	HIS
2	Cb	223	ASN
2	Cc	73	GLN
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	95	HIS
2	Cd	134	HIS
2	Cd	136	HIS
2	Cd	153	GLN
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
2	Ce	189	HIS
2	Ce	223	ASN
2	Cf	73	GLN
2	Cf	95	HIS
2	Cf	134	HIS
2	Cf	153	GLN

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Mol	Chain	Res	Type
2	Cf	189	HIS
2	Cf	223	ASN
2	Cg	73	GLN
2	Cg	95	HIS
2	Cg	134	HIS
2	Cg	136	HIS
2	Cg	153	GLN
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	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	95	HIS
2	Cj	134	HIS
2	Cj	136	HIS
2	Cj	153	GLN
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	189	HIS
2	Ck	223	ASN
2	Cl	73	GLN
2	Cl	95	HIS
2	Cl	134	HIS
2	Cl	136	HIS
2	Cl	153	GLN
2	Cl	189	HIS

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Mol	Chain	Res	Type
2	Cl	223	ASN
2	Cm	73	GLN
2	Cm	95	HIS
2	Cm	134	HIS
2	Cm	189	HIS
2	Cm	223	ASN
2	Cn	73	GLN
2	Cn	95	HIS
2	Cn	134	HIS
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	189	HIS
2	Co	223	ASN
2	Cp	73	GLN
2	Cp	95	HIS
2	Cp	134	HIS
2	Cp	136	HIS
2	Cp	153	GLN
2	Cp	189	HIS
2	Cp	223	ASN
2	Cq	73	GLN
2	Cq	95	HIS
2	Cq	134	HIS
2	Cq	136	HIS
2	Cq	153	GLN
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	153	GLN
2	Cr	189	HIS
2	Cr	223	ASN
2	Cs	73	GLN
2	Cs	95	HIS
2	Cs	134	HIS
2	Cs	136	HIS

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Mol	Chain	Res	Type
2	Cs	153	GLN
2	Cs	189	HIS
2	Cs	223	ASN
2	Ct	73	GLN
2	Ct	95	HIS
2	Ct	134	HIS
2	Ct	136	HIS
2	Ct	153	GLN
2	Ct	189	HIS
2	Ct	223	ASN
2	Cu	73	GLN
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	95	HIS
2	Cv	134	HIS
2	Cv	136	HIS
2	Cv	153	GLN
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	189	HIS
2	Cw	223	ASN
2	Cx	73	GLN
2	Cx	95	HIS
2	Cx	134	HIS
2	Cx	136	HIS
2	Cx	153	GLN
2	Cx	189	HIS
2	Cx	223	ASN
3	D0	42	ASN
3	D0	49	GLN
3	D0	178	ASN
3	D0	218	HIS
3	D0	226	GLN
3	D1	42	ASN

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Mol	Chain	Res	Type
3	D1	49	GLN
3	D1	178	ASN
3	D1	218	HIS
3	D1	226	GLN
3	D2	42	ASN
3	D2	49	GLN
3	D2	178	ASN
3	D2	218	HIS
3	D2	226	GLN
3	D3	42	ASN
3	D3	49	GLN
3	D3	178	ASN
3	D3	218	HIS
3	D3	226	GLN
3	D4	42	ASN
3	D4	49	GLN
3	D4	178	ASN
3	D4	218	HIS
3	D4	226	GLN
3	D5	42	ASN
3	D5	49	GLN
3	D5	178	ASN
3	D5	218	HIS
3	D5	226	GLN
3	D6	42	ASN
3	D6	49	GLN
3	D6	178	ASN
3	D6	218	HIS
3	D6	226	GLN
3	D7	42	ASN
3	D7	49	GLN
3	D7	178	ASN
3	D7	218	HIS
3	D7	226	GLN
3	D8	42	ASN
3	D8	49	GLN
3	D8	178	ASN
3	D8	218	HIS
3	D8	226	GLN
3	D9	42	ASN
3	D9	49	GLN
3	D9	178	ASN

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Mol	Chain	Res	Type
3	D9	218	HIS
3	D9	226	GLN
3	DA	42	ASN
3	DA	49	GLN
3	DA	178	ASN
3	DA	218	HIS
3	DA	226	GLN
3	DB	42	ASN
3	DB	49	GLN
3	DB	178	ASN
3	DB	218	HIS
3	DB	226	GLN
3	DC	42	ASN
3	DC	49	GLN
3	DC	218	HIS
3	DC	226	GLN
3	DD	42	ASN
3	DD	49	GLN
3	DD	178	ASN
3	DD	218	HIS
3	DD	226	GLN
3	DE	42	ASN
3	DE	49	GLN
3	DE	178	ASN
3	DE	218	HIS
3	DE	226	GLN
3	DF	42	ASN
3	DF	49	GLN
3	DF	218	HIS
3	DF	226	GLN
3	DG	42	ASN
3	DG	49	GLN
3	DG	178	ASN
3	DG	218	HIS
3	DG	226	GLN
3	DH	42	ASN
3	DH	49	GLN
3	DH	178	ASN
3	DH	218	HIS
3	DH	226	GLN
3	DI	42	ASN
3	DI	49	GLN

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Mol	Chain	Res	Type
3	DI	178	ASN
3	DI	218	HIS
3	DI	226	GLN
3	DJ	42	ASN
3	DJ	49	GLN
3	DJ	178	ASN
3	DJ	218	HIS
3	DJ	226	GLN
3	DK	42	ASN
3	DK	49	GLN
3	DK	218	HIS
3	DK	226	GLN
3	DL	42	ASN
3	DL	49	GLN
3	DL	178	ASN
3	DL	218	HIS
3	DL	226	GLN
3	DM	42	ASN
3	DM	49	GLN
3	DM	178	ASN
3	DM	218	HIS
3	DM	226	GLN
3	DN	42	ASN
3	DN	49	GLN
3	DN	178	ASN
3	DN	218	HIS
3	DN	226	GLN
3	DO	42	ASN
3	DO	49	GLN
3	DO	218	HIS
3	DO	226	GLN
3	DP	42	ASN
3	DP	49	GLN
3	DP	178	ASN
3	DP	218	HIS
3	DP	226	GLN
3	DQ	42	ASN
3	DQ	49	GLN
3	DQ	178	ASN
3	DQ	218	HIS
3	DQ	226	GLN
3	DR	42	ASN

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Mol	Chain	Res	Type
3	DR	49	GLN
3	DR	178	ASN
3	DR	218	HIS
3	DR	226	GLN
3	DS	42	ASN
3	DS	49	GLN
3	DS	178	ASN
3	DS	218	HIS
3	DS	226	GLN
3	DT	42	ASN
3	DT	49	GLN
3	DT	178	ASN
3	DT	218	HIS
3	DT	226	GLN
3	DU	42	ASN
3	DU	49	GLN
3	DU	178	ASN
3	DU	218	HIS
3	DU	226	GLN
3	DV	42	ASN
3	DV	49	GLN
3	DV	178	ASN
3	DV	218	HIS
3	DV	226	GLN
3	DW	42	ASN
3	DW	49	GLN
3	DW	178	ASN
3	DW	218	HIS
3	DW	226	GLN
3	DX	42	ASN
3	DX	49	GLN
3	DX	178	ASN
3	DX	218	HIS
3	DX	226	GLN
3	DY	42	ASN
3	DY	49	GLN
3	DY	178	ASN
3	DY	218	HIS
3	DY	226	GLN
3	DZ	42	ASN
3	DZ	49	GLN
3	DZ	178	ASN

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Mol	Chain	Res	Type
3	DZ	218	HIS
3	DZ	226	GLN
3	Da	42	ASN
3	Da	49	GLN
3	Da	178	ASN
3	Da	218	HIS
3	Da	226	GLN
3	Db	42	ASN
3	Db	49	GLN
3	Db	178	ASN
3	Db	218	HIS
3	Db	226	GLN
3	Dc	42	ASN
3	Dc	49	GLN
3	Dc	178	ASN
3	Dc	218	HIS
3	Dc	226	GLN
3	Dd	42	ASN
3	Dd	49	GLN
3	Dd	178	ASN
3	Dd	218	HIS
3	Dd	226	GLN
3	De	42	ASN
3	De	49	GLN
3	De	178	ASN
3	De	218	HIS
3	De	226	GLN
3	Df	42	ASN
3	Df	49	GLN
3	Df	178	ASN
3	Df	218	HIS
3	Df	226	GLN
3	Dg	42	ASN
3	Dg	49	GLN
3	Dg	178	ASN
3	Dg	218	HIS
3	Dg	226	GLN
3	Dh	42	ASN
3	Dh	49	GLN
3	Dh	178	ASN
3	Dh	218	HIS
3	Dh	226	GLN

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Mol	Chain	Res	Type
3	Di	42	ASN
3	Di	49	GLN
3	Di	178	ASN
3	Di	218	HIS
3	Di	226	GLN
3	Dj	42	ASN
3	Dj	49	GLN
3	Dj	178	ASN
3	Dj	218	HIS
3	Dj	226	GLN
3	Dk	42	ASN
3	Dk	49	GLN
3	Dk	178	ASN
3	Dk	218	HIS
3	Dk	226	GLN
3	Dl	42	ASN
3	Dl	49	GLN
3	Dl	178	ASN
3	Dl	218	HIS
3	Dl	226	GLN
3	Dm	42	ASN
3	Dm	49	GLN
3	Dm	178	ASN
3	Dm	218	HIS
3	Dm	226	GLN
3	Dn	42	ASN
3	Dn	49	GLN
3	Dn	178	ASN
3	Dn	218	HIS
3	Dn	226	GLN
3	Do	42	ASN
3	Do	49	GLN
3	Do	178	ASN
3	Do	218	HIS
3	Do	226	GLN
3	Dp	42	ASN
3	Dp	49	GLN
3	Dp	178	ASN
3	Dp	218	HIS
3	Dp	226	GLN
3	Dq	42	ASN
3	Dq	49	GLN

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Mol	Chain	Res	Type
3	Dq	178	ASN
3	Dq	218	HIS
3	Dq	226	GLN
3	Dr	42	ASN
3	Dr	49	GLN
3	Dr	178	ASN
3	Dr	218	HIS
3	Dr	226	GLN
3	Ds	42	ASN
3	Ds	49	GLN
3	Ds	178	ASN
3	Ds	218	HIS
3	Ds	226	GLN
3	EA	42	ASN
3	EA	49	GLN
3	EA	178	ASN
3	EA	218	HIS
3	EA	226	GLN
3	EB	42	ASN
3	EB	49	GLN
3	EB	218	HIS
3	EB	226	GLN
3	EC	42	ASN
3	EC	49	GLN
3	EC	178	ASN
3	EC	218	HIS
3	EC	226	GLN
3	ED	42	ASN
3	ED	49	GLN
3	ED	218	HIS
3	ED	226	GLN
3	EE	42	ASN
3	EE	49	GLN
3	EE	178	ASN
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

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Mol	Chain	Res	Type
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	24	ASN
4	F5	31	GLN
4	F6	17	ASN
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	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

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Mol	Chain	Res	Type
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
4	FJ	17	ASN
4	FJ	23	GLN
4	FJ	24	ASN
4	FJ	31	GLN
4	FK	17	ASN
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	24	ASN
4	FM	31	GLN
4	FN	17	ASN
4	FN	23	GLN
4	FN	24	ASN

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Mol	Chain	Res	Type
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
4	FT	24	ASN
4	FT	31	GLN
4	FU	17	ASN
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	24	ASN

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Mol	Chain	Res	Type
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	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	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	24	ASN
4	Ff	31	GLN
4	Fg	17	ASN
4	Fg	24	ASN
4	Fg	31	GLN
4	Fh	17	ASN
4	Fh	24	ASN
4	Fh	31	GLN
4	Fi	17	ASN
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

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Mol	Chain	Res	Type
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	24	ASN
4	Fm	31	GLN
4	Fn	17	ASN
4	Fn	24	ASN
4	Fn	31	GLN
4	Fo	17	ASN
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	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

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Mol	Chain	Res	Type
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 ⓘ

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.